Statistical Output and Robustness Checks for the Analyses in Tables 2.2, 2.3, 2.4, 2.5, and 2.6

Note: Statistical output for the estimates of the required changes in Table 2.6 will be in the analyses for Table 2.2, Model 2-3

McGuireC1OutputT2-23456.pdf

Web Appendix C1 to:

James W. McGuire
Wealth, Health, and Democracy in East Asia and Latin America
New York: Cambridge University Press, 2010

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105 Developing Countries Included in the Quantitative Analysis in Chapter 2

Africa, Sub-Saharan: Angola, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Central African Republic, Chad, Congo (Brazzaville), Congo (Kinshasa), Cote d'Ivoire, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritania, Mauritius, Mozambique, Namibia, Niger, Nigeria, Rwanda, Senegal, Sierra Leone, Somalia, South Africa, Sudan, Swaziland, Tanzania, Togo, Uganda, Zambia, Zimbabwe

Asia, East: Cambodia, China, Fiji, Hong Kong, Indonesia, Korea (North), Korea (South), Laos, Malaysia, Mongolia, Myanmar, Papua New Guinea, Philippines, Singapore, Taiwan, Thailand, Vietnam.

Asia, South: Bangladesh, Bhutan, India, Nepal, Pakistan, Sri Lanka.

Latin America and the Caribbean: Argentina, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, El Salvador, Guatemala, Guyana, Haiti, Honduras, Jamaica, Mexico, Nicaragua, Panama, Paraguay, Peru, Trinidad & Tobago, Uruguay, Venezuela.

Middle East and North Africa: Afghanistan, Algeria, Bahrain, Egypt, Iran, Iraq, Jordan, Kuwait, Lebanon, Libya, Morocco, Oman, Saudi Arabia, Syria, Tunisia, Turkey, United Arab Emirates, Yemen.

Three Political Science and Three Public Health Hypotheses

First evaluate public health hypotheses

- PH1: Spending promotes services
- PH2: Services promote survival
- PH3: Spending promotes survival

Next evaluate political science hypotheses

- PS1: Democracy promotes spending
- PS2: Democracy promotes services
- PS3: Democracy promotes survival

Titles of Tables 2.2, 2.3, 2.4, 2.5, and 2.6 in the Published Book

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Table 2.2.3. Public Health Care Spending, Public Health Service Utilization, and Infant Mortality

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Table 2.2.5. Short-term Democratic Practice and Public Health Care Spending, Public Health Service Access/Utilization, and Infant Mortality

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Robustness checks: Specification, Imputation, Outliers, Endogeneity, Data Sources

Heteroskedasticity-robust standard errors used throughout

1. Alter the specification of the model
    - 1.1. Without fertility
    - 1.2. With female schooling
    - 1.3. With female literacy
    - 1.4. With geographical variables (remoteness, coastal/river access, tropical location)
    - 1.5. With regional dummies (Africa, Latin America, East Asia, South Asia)

2. Check whether imputation may be driving the results
    - 2.1. With missing data flags

3. Check whether outliers may be driving the results
    - 3.1. Robust regression
    - 3.2. Median regression
    - 3.3. Discard the two cases with highest values on the Cook's-D test

4. Endogeneity check
    - 4.1. Correlate candidate instrument (CI) and hypothsized endogenous regressor (HER)
    - 4.2. Does CI predict HER in presence of the exogenous regressors?
    - 4.3. Two-stage least squares using CI as an instrument for HER
    - 4.4. Hausman test to see if coefficients from 2SLS differ from those from OLS

5. Dependent variable (if infant mortality): Change definition or data source
    - 5.1. Change dependent variable: infant mortality to under-5 mortality (limrcom to lu5mrcom)
    - 5.2. Change data source for dep var: infant mortality (limrcom to limrwdi)

6. Independent variable (if spending or democracy): Change data source, transform, or vary
    - 6.1. Change data source for ind var: WDI to HNP pub sp (hlxpuwdi to hlxpuwb)
    - 6.2. Take natural log of indep var: WDI to ln WDI (hlxpuwdi to lhlxpuwd)
    - 6.3. Change data source for ind var: pavg0090 to pavg7090
    - 6.4. Change data source for ind var: pavg0090 to free7290
    - 6.5. Change data source for ind var: pavg8090 to pol90
    - 6.6. Change data source for ind var: pavg8090 to free8090
    - 6.7. Change data source for ind var: pavg8090 to free90

7. Control variable (if GDP or ethnic fragmentation): Change data source
    - 7.1. Change data source for ctrl var: GDP/cap at PPP (lgdph to lgdpmx)
    - 7.2. Change data source for ctrl var: GDP/cap at PPP (lgdph to lgdpmx), miss data flags
    - 7.3. Change data source for ctrl var: ethnic fragm (ethnl to ethnannx)
    - 7.4. Change data source for ctrl var: ethnic fragm (ethnl to ethnannx), miss data flags

Research Plans for Tables 2.2, 2.3, 2.4, and 2.5

Research Plan for Table 2.2

Research plan: Table 2.2, Models 2-1 to 2-3

Correlations among variables

Research plan: Table 2.2, Model 2-1: DV IMR, IV GDP per capita

Model 2-1: Infant mortality predicted by GDP per capita only

Research plan: Table 2.2, Model 2-2: DV IMR, IV GDP per capita & Income Ineq.

Model 2-2: Infant mortality predicted by GDP per capita and Gini index

Research plan: Table 2.2, Model 2-3: DV IMR, IV 7 Econ, Cultural, Demog. Var.

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Model 2-3: Use CLARIFY to estim magnitude of effect on limrcom of 1 SD changes in IVs
Model 2-3: How much would IMR fall if the natural log of GDP per capita rose one SD?
Model 2-3: How much of a rise in ln GDP per capita would reduce IMR from 54 to 49?
Model 2-3: How much would infant mortality fall if the Gini index fell one SD?
Model 2-3: How much of a fall in the Gini index would reduce IMR from 54 to 49?
Model 2-3: How much would infant mortality fall if the Gini index fell one SD?
Model 2-3: How much would infant mortality fall if ethnic fractionalization fell one SD?
Model 2-3: How much would infant mortality fall if Muslim religion rose one SD?
Model 2-3: How much would infant mortality fall if Muslim religion went from 0 to 1?
Model 2-3: How much would infant mortality fall if fertility fell one SD?
Model 2-3: How much would infant mortality fall if population density rose one SD?
Model 2-3: How much would infant mortality fall if urbanization rose one SD?
Model 2-3: Robust Check 1.1: Change specification: Exclude fertility
Model 2-3: Robust Check 1.3: Change specification: Include female literacy
Model 2-3: Robust Check 1.5: Change specification: Include regional dummies
Model 2-3: Robust Check 2.1: Imputation check: Include missing data flags
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Model 2-3: Robust Check 4.3: Endog ck: 2SLS using CI as instrument for HER
Model 2-3: Robust Check 4.4: Endog ck: Hausman test for diff betw coeff of OLS & of 2SLS
Model 2-3: Robust Check 5.1: DepV: change IMR to U5MR (limrcom to lu5mrcom)
Model 2-3: Robust Check 5.2: DepV: Vary source: infant mortality (limrcom to limrwdi)
Model 2-3: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)
Model 2-3: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags
Model 2-3: Robust Check 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)
Model 2-3: Robust Check 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

Research plan: Table 2.2, Model 2-4: DV IMR, IV Birth Attendance

Model 2-4: Bivariate correlations among independent variables
Model 2-4: Infant mortality predicted by 7 baseline variables only (same as Model 3-4)
Model 2-4: Infant Mortality predicted by 7 baseline variables + birth attendance
Model 2-4: Means and SDs of Birth Attendance and Infant Mortality
Model 2-4: How much would infant mortality fall if trained attendance at birth rose one SD?
Model 2-4: Robust Check 1.1: Change specification: Exclude fertility
Model 2-4: Robust Check 1.2: Change specification: Include mean years of female schooling
Model 2-4: Robust Check 1.3: Change specification: Include female literacy
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Model 2-4: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd
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Model 2-4: Robust Check 4.4: Endog ck: Hausman test for diff betw coeff of OLS & of 2SLS
Model 2-4: Robust Check 5.1: DepV: change IMR to U5MR (limrcom to lu5mrcom)
Model 2-4: Robust Check 5.2: DepV: Vary source: infant mortality (limrcom to limrwdi)
Model 2-4: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)
Model 2-4: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags
Model 2-4: Robust Check 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)
Model 2-4: Robust Check 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

Research plan: Table 2.2, Model 2-5: DV IMR, IV DTP3 Immunization

Model 2-5: Bivariate correlations among independent variables
Model 2-5: Infant mortality predicted by 7 baseline variables only (same as Model 3-4)
Model 2-5: Infant Mortality predicted by 7 baseline variables + dtp3 immuniz
Model 2-5: Means and SDs of DTP3 Immunization and Infant Mortality
Model 2-5: How much would infant mortality fall if DTP3 immuniz rose one SD?
Model 2-5: Robust Check 1.1: Change specification: Exclude fertility
Model 2-5: Robust Check 1.2: Change specification: Include mean years of female schooling
Model 2-5: Robust Check 1.3: Change specification: Include female literacy
Model 2-5: Robust Check 1.4: Change specification: Include geographical variables
Model 2-5: Robust Check 1.5: Change specification: Include regional dummies
Model 2-5: Robust Check 2.1: Imputation check: Include missing data flags
Model 2-5: Robust Check 3.1: Outlier checks: Robust regression
Model 2-5: Robust Check 3.2: Outlier checks: Median regression
Model 2-5: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd
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Model 2-5: Robust Check 4.3: Endog ck: 2SLS using CI as instrument for HER
Model 2-5: Robust Check 4.4: Endog ck: Hausman test for diff betw coeff of OLS & of 2SLS
Model 2-5: Robust Check 5.1: DepV: change IMR to U5MR (limrcom to lu5mrcom)

Model 2-5: Robust Check 5.2: DepV: Vary source: infant mortality (limrcom to limrwdi)
Model 2-5: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)
Model 2-5: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags
Model 2-5: Robust Check 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)
Model 2-5: Robust Check 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

Research plan: Table 2.2, Model 2-6: DV IMR, IV MCV Immunization

Model 2-6: Bivariate correlations among independent variables
Model 2-6: Infant mortality predicted by 7 baseline variables only (same as Model 3-4)
Model 2-6: Infant Mortality predicted by 7 baseline variables + measles immuniz
Model 2-6: Means and SDs of Measles Immunization and Infant Mortality
Model 2-6: How much would infant mortality fall if measles immuniz rose one SD?
Model 2-6: Robust Check 1.1: Change specification: Exclude fertility
Model 2-6: Robust Check 1.2: Change specification: Include mean years of female schooling
Model 2-6: Robust Check 1.3: Change specification: Include female literacy
Model 2-6: Robust Check 1.4: Change specification: Include geographical variables
Model 2-6: Robust Check 1.5: Change specification: Include regional dummies
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Model 2-6: Robust Check 5.1: DepV: change IMR to U5MR (limrcom to lu5mrcom)
Model 2-6: Robust Check 5.2: DepV: Vary source: infant mortality (limrcom to limrwdi)
Model 2-6: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)
Model 2-6: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags
Model 2-6: Robust Check 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)
Model 2-6: Robust Check 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

Research plan: Table 2.2, Model 2-7: DV IMR, IV Mean years of female schooling

Model 2-7: Bivariate correlations among independent variables
Model 2-7: Infant mortality predicted by 7 baseline variables only (same as Model 3-4)
Model 2-7: Infant Mortality predicted by 7 baseline variables + mean yrs fem school
Model 2-7: Means and SDs of Mean Yrs Female School and Infant Mortality
Model 2-7: How much would infant mortality fall if female schooling rose one SD?
Model 2-7: Robust Check 1.1: Change specification: Exclude fertility
Model 2-7: Robust Check 1.3: Change specification: Female literacy instead of female school
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Model 2-7: Robust Check 1.5: Change specification: Include regional dummies
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Model 2-7: Robust Check 4.4: Endog ck: Hausman test for diff betw coeff of OLS & of 2SLS

Model 2-7: Robust Check 5.1: DepV: change IMR to U5MR (limrcom to lu5mrcom)
Model 2-7: Robust Check 5.2: DepV: Vary source: infant mortality (limrcom to limrwdi)
Model 2-7: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)
Model 2-7: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags
Model 2-7: Robust Check 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)
Model 2-7: Robust Check 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

Research plan: Table 2.2, Model 2-8: DV IMR, IV Family planning effort

Model 2-8: Bivariate correlations among independent variables
Model 2-8: Infant Mortality predicted by six baseline variables only (excl. fertility)
Model 2-8: Infant Mortality predicted by six baseline variables + family planning
Model 2-8: Means and SDs of Family Planning and Infant Mortality
Model 2-8: How much would infant mortality fall if family planning rose one SD?
Model 2-8: Robust Check 1.1: Change specification: Include fertility
Model 2-8: Robust Check 1.2: Change specification: Include mean years of female schooling
Model 2-8: Robust Check 1.3: Change specification: Include female literacy
Model 2-8: Robust Check 1.4: Change specification: Include geographical variables
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Model 2-8: Robust Check 5.1: DepV: change IMR to U5MR (limrcom to lu5mrcom)
Model 2-8: Robust Check 5.2: DepV: Vary source: infant mortality (limrcom to limrwdi)
Model 2-8: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)
Model 2-8: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags
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Model 2-8: Robust Check 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

Research plan: Table 2.2, Model 2-9: DV IMR, IV Access to an improved water source

Model 2-9: Bivariate correlations among independent variables
Model 2-9: Infant mortality predicted by 7 baseline variables only (same as Model 3-4)
Model 2-9: Infant Mortality predicted by 7 baseline variables + % access impvd water
Model 2-9: Means and SDs of access to an improved water source and infant mortality
Model 2-9: How much would infant mortality fall if access to water rose one SD?
Model 2-9: Robust Check 1.1: Change specification: Exclude fertility
Model 2-9: Robust Check 1.2: Change specification: Include mean years of female schooling
Model 2-9: Robust Check 1.3: Change specification: Include female literacy
Model 2-9: Robust Check 1.4: Change specification: Include geographical variables
Model 2-9: Robust Check 1.5: Change specification: Include regional dummies
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Model 2-9: Robust Check 4.4: Endog ck: Hausman test for diff betw coeff of OLS & of 2SLS
Model 2-9: Robust Check 5.1: DepV: change IMR to U5MR (limrcom to lu5mrcom)
Model 2-9: Robust Check 5.2: DepV: Vary source: infant mortality (limrcom to limrwdi)

Model 2-9: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)
Model 2-9: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags
Model 2-9: Robust Check 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)
Model 2-9: Robust Check 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

Research plan: Table 2.2, Model 2-10: DV IMR, IV Access to adequate sanitation

Model 2-10: Bivariate correlations among independent variables
Model 2-10: Infant mortality predicted by 7 baseline variables only (same as Model 3-4)
Model 2-10: Infant Mortality predicted by 7 baseline variables + % access impvd sanit
Model 2-10: Means and SDs of access to improved sanitation and infant mortality
Model 2-10: How much would infant mortality fall if access to improved sanitation rose one SD?
Model 2-10: Robust Check 1.1: Change specification: Exclude fertility
Model 2-10: Robust Check 1.2: Change specification: Include mean years of female schooling
Model 2-10: Robust Check 1.3: Change specification: Include female literacy
Model 2-10: Robust Check 1.4: Change specification: Include geographical variables
Model 2-10: Robust Check 1.5: Change specification: Include regional dummies
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Model 2-10: Robust Check 5.2: DepV: Vary source: infant mortality (limrcom to limrwdi)
Model 2-10: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)
Model 2-10: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags
Model 2-10: Robust Check 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)
Model 2-10: Robust Check 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

Research Plan for Table 2.3

Research plan: Table 2.3, Model 3-1: DV Birth attendance, IV health spending

Model 3-1: Bivariate correlations among independent variables
Model 3-1: Birth attendance predicted by 7 baseline variables only
Model 3-1: Birth attendance predicted by 7 baseline variables + % GDP pub health sp
Model 3-1: Means and SDs of % GDP to public health spending and birth attendance
Model 3-1: How much would birth attendance rise if pub health spending as a % GDP rose 1 SD?
Model 3-1: Robust Check 1.1: Change specification: Exclude fertility
Model 3-1: Robust Check 1.2: Change specification: Include mean years of female school
Model 3-1: Robust Check 1.3: Change specification: Include female literacy
Model 3-1: Robust Check 1.4: Change specification: Include geog var (airdist, popcrgs, latcapab)
Model 3-1: Robust Check 1.5: Change specification: Include regional dummies
Model 3-1: Robust Check 2.1: Imputation check: Include missing data flags
Model 3-1: Robust Check 3.1: Outlier checks: Robust regression
Model 3-1: Robust Check 3.2: Outlier checks: Median regression
Model 3-1: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd
Model 3-1: Robust Check 4.1: Endog ck: Corr cand. inst (hlxwdns) & hyp endg reg (hlxpuwdi)
Model 3-1: Robust Check 4.2: Endog ck: Does CI predict HER in presence of exog regressors?

Model 3-1: Robust Check 4.3: Endog ck: 2SLS using CI as instrument for HER
Model 3-1: Robust Check 4.4: Endog ck: Hausman test for diff betw coeff of OLS & of 2SLS
Model 3-1: Robust Check 6.1: IndV: Vary source: WDI to HNP pub sp (hlxpuwdi to hlxpuwb)
Model 3-1: Robust Check 6.2: IndV: Transform: WDI to ln WDI pub sp (hlxpuwdi to lhlxpuwd)
Model 3-1: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)
Model 3-1: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags
Model 3-1: Robust Check 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)
Model 3-1: Robust Check 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

Research plan: Table 2.3, Model 3-2: DV DTP3 immz, IV health spending

Model 3-2: Bivariate correlations among independent variables
Model 3-2: DTP3 immz predicted by 7 baseline variables only
Model 3-2: DTP3 immz predicted by 7 baseline variables + % GDP pub health sp
Model 3-2: Means and SDs of % GDP to public health spending and DTP3 immz
Model 3-2: How much would DTP3 immz rise if pub health spending as a % GDP rose 1 SD?
Model 3-2: Robust Check 1.1: Change specification: Exclude fertility
Model 3-2: Robust Check 1.2: Change specification: Include mean years of female schooling
Model 3-2: Robust Check 1.3: Change specification: Include female literacy
Model 3-2: Robust Check 1.4: Change specification: Incl other geog var (airdist, popcrgs, latcapab)
Model 3-2: Robust Check 1.5: Change specification: Include regional dummies
Model 3-2: Robust Check 2.1: Imputation check: Include missing data flags
Model 3-2: Robust Check 3.1: Outlier checks: Robust regression
Model 3-2: Robust Check 3.2: Outlier checks: Median regression
Model 3-2: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd
Model 3-2: Robust Check 4.1: Endog ck: Corr cand. inst (hlxwdns) & hyp endg reg (hlxpuwdi)
Model 3-2: Robust Check 4.2: Endog ck: Does CI predict HER in presence of exog regressors?
Model 3-2: Robust Check 4.3: Endog ck: 2SLS using CI as instrument for HER
Model 3-2: Robust Check 4.4: Endog ck: Hausman test for diff betw coeff of OLS & of 2SLS
Model 3-2: Robust Check 6.1: IndV: Vary source: WDI to HNP pub sp (hlxpuwdi to hlxpuwb)
Model 3-2: Robust Check 6.2: IndV: Transform: WDI to ln WDI pub sp (hlxpuwdi to lhlxpuwd)
Model 3-2: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)
Model 3-2: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags
Model 3-2: Robust Check 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)
Model 3-2: Robust Check 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

Research plan: Table 2.3, Model 3-3: DV measles immz, IV spending

Model 3-3: Bivariate correlations among independent variables
Model 3-3: MCV immuniz predicted by 7 baseline variables only
Model 3-3: MCV immuniz predicted by 7 baseline variables + % GDP pub health sp
Model 3-3: Means and SDs of % GDP to public health spending and mcv immz
Model 3-3: How much would mcv immz rise if pub health spending as a % GDP rose 1 SD?
Model 3-3: Robust Check 1.1: Change specification: Exclude fertility
Model 3-3: Robust Check 1.2: Change specification: Include mean years of female schooling
Model 3-3: Robust Check 1.3: Change specification: Include female literacy
Model 3-3: Robust Check 1.4: Change specification: Include geographical variables
Model 3-3: Robust Check 1.5: Change specification: Include regional dummies
Model 3-3: Robust Check 2.1: Imputation check: Include missing data flags
Model 3-3: Robust Check 3.1: Outlier checks: Robust regression

Model 3-3: Robust Check 3.2: Outlier checks: Median regression
Model 3-3: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd
Model 3-3: Robust Check 4.1: Endog ck: Corr cand. inst (hlxwdns) & hyp endg reg (hlxpuwdi)
Model 3-3: Robust Check 4.2: Endog ck: Does CI predict HER in presence of exog regressors?
Model 3-3: Robust Check 4.3: Endog ck: 2SLS using CI as instrument for HER
Model 3-3: Robust Check 4.4: Endog ck: Hausman test for diff betw coeff of OLS & of 2SLS
Model 3-3: Robust Check 6.1: IndV: Vary source: WDI to HNP pub sp (hlxpuwdi to hlxpuwb)
Model 3-3: Robust Check 6.2: IndV: Transform: WDI to ln WDI pub sp (hlxpuwdi to lhlxpuwd)
Model 3-3: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)
Model 3-3: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags
Model 3-3: Robust Check 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)
Model 3-3: Robust Check 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

Research plan: Table 2.3, Models 3-3 to 3-10: Pub Health Spend & Infant Mort in 1990

Table 2.3: t-score of hlxpuwdi (WB WDI 2002) or hlxpuwb (WB HNP 2001-02)
Table 2.3: Bivariate correlations among independent variables
Table 2.3: Infant mortality predicted by 7 baseline variables only (same as Model 3-4)

Research plan: Table 2.3, Model 3-4: DV IMR, IV health spending as % GDP
Health spending data from WB WDI; all cases included (no outliers excluded)

Model 3-4: IMR predicted by 7 baseline variables + % GDP to pub health care (WDI)
Model 3-4: Means and SDs of % GDP to Public Health Spending and Infant Mortality
Model 3-4: How much would infant mortality fall if % GDP to pub hlth sp rose one SD?
Model 3-4: How much would infant mortality fall if % GDP to pub hlth sp doubled?
Model 3-4: Robust Check 1.1: Change specification: Exclude fertility
Model 3-4: Robust Check 1.2: Change specification: Include mean years of female school
Model 3-4: Robust Check 1.3: Change specification: Include female literacy
Model 3-4: Robust Check 1.4: Change specification: Include geographical variables
Model 3-4: Robust Check 1.5: Change specification: Include regional dummy variables
Model 3-4: Robust Check 2.1: Imputation check: Include missing data flags
Model 3-4: Robust Check 3.1: Outlier checks: Robust regression
Model 3-4: Robust Check 3.2: Outlier checks: Median regression
Model 3-4: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd
(Same as Model 3-5)
Model 3-4: Robust Ck 4.1: Endog ck: Corr cand. inst (hlxwdns) & hyp endg reg (hlxpuwdi)
Model 3-4: Robust Ck 4.2: Endog ck: Does CI predict HER in presence of exog regressors?
Model 3-4: Robust Ck 4.3: Endog ck: 2SLS using hlxwdns as instrument for hlxpuwdi
Model 3-4: Robust Ck 4.4: Endog ck: Hausman test for diff btw coeff of OLS & of 2SLS
Model 3-4: Robust Ck 5.1: DepV: change IMR to U5MR (limrcom to lu5mrcom)
Model 3-4: Robust Ck 5.2: DepV: Vary source: infant mortality (limrcom to limrwdi)
Model 3-4: Robust Ck 6.1: IndV: Vary source: WDI to HNP pub sp (hlxpuwdi to hlxpuwb)
(Same as Model 3-6)
Model 3-4: Robust Ck 6.2: IndV: Transform: WDI to ln WDI pub sp (hlxpuwdi to lhlxpuwd)
Model 3-4: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)
Model 3-4: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags
Model 3-4: Robust Check 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)
Model 3-4: Robust Check 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

Research plan: Table 2.3, Model 3-5: DV IMR, IV health spending as % GDP
Health spending from WB WDI; excludes 2 outliers w/highest Cook's-D

Model 3-5: IMR pred by baseline var + % GDP to pub health care, discard 2 cases highest cooksd
Model 3-5: Means and SDs of % GDP to public health spending and infant mortality
Model 3-5: How much would infant mortality fall if % GDP to pub hlth sp rose one SD?
Model 3-5: How much would infant mortality fall if % GDP to pub hlth sp doubled?
Model 3-5: Robust Check 1.1: Change specification: Exclude fertility
Model 3-5: Robust Check 1.2: Change specification: Include mean years of female school
Model 3-5: Robust Check 1.3: Change specification: Include female literacy
Model 3-5: Robust Check 1.4: Change specification: Include geographical variables
Model 3-5: Robust Check 1.5: Change specification: Include regional dummy variables
Model 3-5: Robust Check 2.1: Imputation check: Include missing data flags
Model 3-5: Robust Check 3.1: Outlier checks: Robust regression
Model 3-5: Robust Check 3.2: Outlier checks: Median regression
Model 3-5: Robust Ck 4.1: Endog ck: Corr cand. inst (hlxwdns) & hyp endg reg (hlxpuwdi)
Model 3-5: Robust Ck 4.2: Endog ck: Does CI predict HER in presence of exog regressors?
Model 3-5: Robust Ck 4.3: Endog ck: 2SLS using hlxwdns as instrument for hlxpuwdi
Model 3-5: Robust Ck 4.4: Endog ck: Hausman test for diff btw coeff of OLS & of 2SLS
Model 3-5: Robust Ck 5.1: DepV: change IMR to U5MR (limrcom to lu5mrcom)
Model 3-5: Robust Ck 5.2: DepV: Vary source: infant mortality (limrcom to limrwdi)
Model 3-5: Robust Ck 6.1: IndV: Vary source: WDI to HNP pub sp (hlxpuwdi to hlxpuwb)
(Same as Model 3-7)
Model 3-5: Robust Ck 6.2: IndV: Transform: WDI to ln WDI pub sp (hlxpuwdi to lhlxpuwd)
Model 3-5: Robust Ck 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)
Model 3-5: Robust Ck 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags
Model 3-5: Robust Ck 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)
Model 3-5: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

Research plan: Table 2.3, Model 3-6: DV IMR, IV health spending as % GDP
Health spending data from WB HNP; all cases (outliers included)

Model 3-6: IMR predicted by 7 baseline variables + % GDP to pub health care (HNP)
Model 3-6: Means and SDs of % GDP to Public Health Spending and Infant Mortality
Model 3-6: How much would infant mortality fall if % GDP to pub hlth sp rose one SD?
Model 3-6: How much would infant mortality fall if % GDP to pub hlth sp doubled?
Model 3-6: Robust Check 1.1: Change specification: Exclude fertility
Model 3-6: Robust Check 1.2: Change specification: Include mean years of female school
Model 3-6: Robust Check 1.3: Change specification: Include female literacy
Model 3-6: Robust Check 1.4: Change specification: Include geographical variables
Model 3-6: Robust Check 1.5: Change specification: Include regional dummy variables
Model 3-6: Robust Check 2.1: Imputation check: Include missing data flags
Model 3-6: Robust Check 3.1: Outlier checks: Robust regression
Model 3-6: Robust Check 3.2: Outlier checks: Median regression
Model 3-6: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd
(Same as Model 3-7)
Model 3-6: Robust Ck 5.1: DepV: change IMR to U5MR (limrcom to lu5mrcom)
Model 3-6: Robust Ck 5.2: DepV: Vary source: infant mortality (limrcom to limrwdi)
Model 3-6: Robust Ck 6.2: IndV: Transform: WDI to ln WDI pub sp (hlxpuwb to lhlxpuwb)
Model 3-6: Robust Ck 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)
Model 3-6: Robust Ck 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags
Model 3-6: Robust Ck 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)

Model 3-6: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

Research plan: Table 2.3, Model 3-7: DV IMR, IV health spending as % GDP
Health spending data from WB HNP; 2 outliers w/ highest Cook's-D exclud

Model 3-7: IMR pred by baseline var + % GDP to pub health care, discard 2 cases highest cooksd
Model 3-7: Means and SDs of % GDP to public health spending and infant mortality
Model 3-7: How much would infant mortality fall if % GDP to pub hlth sp rose one SD?
Model 3-7: How much would infant mortality fall if % GDP to pub hlth sp doubled?
Model 3-7: Robust Check 1.1: Change specification: Exclude fertility
Model 3-7: Robust Check 1.2: Change specification: Include mean years of female school
Model 3-7: Robust Check 1.3: Change specification: Include female literacy
Model 3-7: Robust Check 1.4: Change specification: Include geographical variables
Model 3-7: Robust Check 1.5: Change specification: Include regional dummy variables
Model 3-7: Robust Check 2.1: Imputation check: Include missing data flags
Model 3-7: Robust Check 3.1: Outlier checks: Robust regression
Model 3-7: Robust Check 3.2: Outlier checks: Median regression
Model 3-7: Robust Ck 4.1: Endog ck: Corr cand. inst (hlxwdns) & hyp endg reg (hlxpuwdi)
Model 3-7: Robust Ck 4.2: Endog ck: Does CI predict HER in presence of exog regressors?
Model 3-7: Robust Ck 4.3: Endog ck: 2SLS using hlxwdns as instrument for hlxpuwdi
Model 3-7: Robust Ck 4.4: Endog ck: Hausman test for diff btw coeff of OLS & of 2SLS
Model 3-7: Robust Ck 5.1: DepV: change IMR to U5MR (limrcom to lu5mrcom)
Model 3-7: Robust Ck 5.2: DepV: Vary source: infant mortality (limrcom to limrwdi)
Model 3-7: Robust Ck 6.2: IndV: Transform: WDI to ln WDI pub sp (hlxpuwb to lhlxpuwb)
Model 3-7: Robust Ck 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)
Model 3-7: Robust Ck 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags
Model 3-7: Robust Ck 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)
Model 3-7: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

Research plan: Table 2.3, Model 3-8: Model 3-5 + birth attendance (delivcom)

Research plan: Table 2.3, Model 3-9: Model 3-5 + DTP3 immunization (dtp3con)

Research plan: Table 2.3, Model 3-10: Mod. 2-5 + Measles immunization (mcvcon)

Research Plan for Table 2.4

Research plan: Table 2.4, Model 4-1: DV health sp as % GDP, IV democ 1900-1990

Model 4-1: Bivariate correlations among independent variables
Model 4-1: DV health sp as % GDP, IV lgdph pop65 lpopd urbwdi
Model 4-1: DV health sp as % GDP, IV democ 1900-1990, lgdph pop65 lpopd urbwdi
Model 4-1: Robust Check 1.2: Change specification: Include mean years of female schooling
Model 4-1: Robust Check 1.3: Change specification: Include female literacy
Model 4-1: Robust Check 1.4: Change specification: Include geographical variables
Model 4-1: Robust Check 1.5: Change specification: Include regional dummies
Model 4-1: Robust Check 2.1: Imputation check: Include missing data flags
Model 4-1: Robust Check 3.1: Outlier checks: Robust regression
Model 4-1: Robust Check 3.2: Outlier checks: Median regression
Model 4-1: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd
Model 4-1: Robust Check 6.3: Vary data source: IV: pavg0090 to pavg7090

Model 4-1: Robust Check 6.4: Vary data source: IV: pavg0090 to free7290
Model 4-1: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)
Model 4-1: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

Research plan: Table 2.4, Model 4-2: DV attended births, IV democ 1900-1990

Model 4-2: Bivariate correlations among independent variables
Model 4-2: Birth attendance predicted by 7 baseline var only (same as Model 4-1)
Model 4-2: Birth attendance predicted by 7 baseline var + democ 1900-1990
Model 4-2: Robust Check 1.1: Change specification: Exclude fertility
Model 4-2: Robust Check 1.1a: Change specification: Exclude fertility, disc 2 cases highest cooksd
Model 4-2: Robust Check 1.2: Change specification: Include mean years of female schooling
Model 4-2: Robust Check 1.3: Change specification: Include female literacy
Model 4-2: Robust Check 1.4: Change specification: Include geographical variables
Model 4-2: Robust Check 1.5: Change specification: Include regional dummies
Model 4-2: Robust Check 2.1: Imputation check: Include missing data flags
Model 4-2: Robust Check 3.1: Outlier checks: Robust regression
Model 4-2: Robust Check 3.2: Outlier checks: Median regression
Model 4-2: Robust Check 3.3: Outlier checks: Discard 2 cases highst cooksd (same as Model 4-3)
Model 4-2: Robust Check 6.3: IndV: Vary source: pavg0090 to pavg7090
Model 4-2: Robust Check 6.3a: IndV: Vary source: pavg0090 to pavg7090, disc 2 highst cooksd
Model 4-2: Robust Check 6.4: IndV: Vary source: pavg0090 to free7290
Model 4-2: Robust Check 6.4a: IndV: Vary source: pavg0090 to free7290, disc 2 highst cooksd
Model 4-2: Robust Ck 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)
Model 4-2: Robust Ck 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags
Model 4-2: Robust Ck 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)
Model 4-2: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

Research plan: Table 2.4, Model 4-3: DV attended births, IV democ 1900-1990, - outlirs

Same as Model 4-2: Robust Check 3.3
Model 4-3: Means and SDs of birth attendance and long-term democratic experience
Model 4-3: Estimate magnitude of effect on delivcom of a 1 SD chg in pavg0090
Model 4-3: How much would birth attendance rise if long-term democracy rose one SD?

Research plan: Table 2.4, Model 4-4: DV female schooling, IV democ 1900-1990

Model 4-4: Bivariate correlations among independent variables
Model 4-4: Female schooling predicted by 7 baseline var only
Model 4-4: Female schooling predicted by 7 baseline var + democ 1900-1990
Model 4-4: Robust Check 1.1: Change specification: Exclude fertility
Model 4-4: Robust Check 1.1a: Change specification: Exclude fertility, disc 2 cases highest cooksd
Model 4-4: Robust Check 1.4: Change specification: Include geographical variables
Model 4-4: Robust Check 1.5: Change specification: Include regional dummies
Model 4-4: Robust Check 2.1: Imputation check: Include missing data flags
Model 4-4: Robust Check 3.1: Outlier checks: Robust regression
Model 4-4: Robust Check 3.2: Outlier checks: Median regression
Model 4-4: Robust Check 3.3: Outlier checks: Discard 2 cases highst cooksd (same as Model 4-3)
Model 4-4: Robust Check 6.3: IndV: Vary source: pavg0090 to pavg7090
Model 4-4: Robust Check 6.4: IndV: Vary source: pavg0090 to free7290

Model 4-4: Robust Ck 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)
Model 4-4: Robust Ck 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags
Model 4-4: Robust Ck 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)
Model 4-4: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

Research plan: Table 2.4, Model 4-5: DV fem school, IV democ 1900-1990, Fertil Excl

Model 4-5: Fem school predicted by six baseline variables excluding fertility
Model 4-5: Fem school predicted by six baseline var excl fert + democ0090 (same M 3-4 RC 1.1)
Model 4-5: Means and SDs of mean yrs fem school and long term democratic experience
Model 4-5: How much would female schooling rise if LT demo exper rose one SD?
Model 4-5: Robust Check 1.4: Change specification: Include geographical variables
Model 4-5: Robust Check 1.5: Change specification: Include regional dummies
Model 4-5: Robust Check 2.1: Imputation check: Include missing data flags
Model 4-5: Robust Check 3.1: Outlier checks: Robust regression
Model 4-5: Robust Check 3.2: Outlier checks: Median regression
Model 4-5: Robust Check 3.3: Outlier checks: Discard 2 cases highst cooksd
Model 4-5: Robust Check 6.3: IndV: Vary source: pavg0090 to pavg7090
Model 4-5: Robust Check 6.4: IndV: Vary source: pavg0090 to free7290
Model 4-5: Robust Ck 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)
Model 4-5: Robust Ck 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags
Model 4-5: Robust Ck 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)
Model 4-5: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

Research plan: Table 2.4, Model 4-6: DV Fam Plan, IV Democ 1900-1990, Fertility Excl

Model 4-6: Bivariate correlations among independent variables
Model 4-6: Family planning effort predicted by six baseline variables excluding fertility
Model 4-6: Family planning effort predicted by six baseline var excl fert + democ 1900-1990
Model 4-6: Means and SDs of family planning effort and long term democratic experience
Model 4-6: How much would family planning effort rise if LT demo exper rose one SD?
Model 4-6: Robust Check 1.1: Change specification: Include fertility
Model 4-6: Robust Check 1.2: Change specification: Include mean years of female schooling
Model 4-6: Robust Check 1.3: Change specification: Include female literacy
Model 4-6: Robust Check 1.4: Change specification: Include geographical variables
Model 4-6: Robust Check 1.5: Change specification: Include regional dummies
Model 4-6: Robust Check 2.1: Imputation check: Include missing data flags
Model 4-6: Robust Check 3.1: Outlier checks: Robust regression
Model 4-6: Robust Check 3.2: Outlier checks: Median regression
Model 4-6: Robust Check 3.3: Outlier checks: Discard 2 cases highst cooksd
Model 4-6: Robust Check 6.3: IndV: Vary source: pavg0090 to pavg7090
Model 4-6: Robust Check 6.4: IndV: Vary source: pavg0090 to free7290
Model 4-6: Robust Ck 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)
Model 4-6: Robust Ck 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags
Model 4-6: Robust Ck 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)
Model 4-6: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

Research plan: Table 2.4, Model 4-7: DV Fertility, IV Democ 1900-1990, Fertility Excl

Model 4-7: Bivariate correlations among independent variables
Model 4-7: Fertility predicted by six baseline variables excluding fertility
Model 4-7: Fertility predicted by six baseline var (excl fertility) + democ 1900-1990
Model 4-7: Means and SDs of fertility and long term democratic experience
Model 4-7: How much would female schooling rise if LT demo exper rose one SD?
Model 4-7: Robust Check 1.2: Change specification: Include mean years of female schooling
Model 4-7: Robust Check 1.3: Change specification: Include female literacy
Model 4-7: Robust Check 1.4: Change specification: Include geographical variables
Model 4-7: Robust Check 1.5: Change specification: Include regional dummies
Model 4-7: Robust Check 1.6: Change specification: Include family planning effort
Model 4-7: Robust Check 2.1: Imputation check: Include missing data flags
Model 4-7: Robust Check 3.1: Outlier checks: Robust regression
Model 4-7: Robust Check 3.2: Outlier checks: Median regression
Model 4-7: Robust Check 3.3: Outlier checks: Discard 2 cases highst cooksd
Model 4-7: Robust Check 6.3: IndV: Vary source: pavg0090 to pavg7090
Model 4-7: Robust Check 6.4: IndV: Vary source: pavg0090 to free7290
Model 4-7: Robust Ck 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)
Model 4-7: Robust Ck 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags
Model 4-7: Robust Ck 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)
Model 4-7: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

Research plan: Table 2.4, Model 4-8: DV Fertility, IV Family Planning, Fertility Excl

Model 4-8: Bivariate correlations among independent variables
Model 4-8: Fertility predicted by six baseline variables excluding fertility
Model 4-8: Fertility predicted by six baseline var (excl fertility) + family planning
Model 4-8: Means and SDs of fertility and family planning
Model 4-8: How much would fertility fall if family planning rose one SD?
Model 4-8: Robust Check 1.2: Change specification: Include mean years of female schooling
Model 4-8: Robust Check 1.3: Change specification: Include female literacy
Model 4-8: Robust Check 1.4: Change specification: Include geographical variables
Model 4-8: Robust Check 1.5: Change specification: Include regional dummies
Model 4-8: Robust Check 2.1: Imputation check: Include missing data flags
Model 4-8: Robust Check 3.1: Outlier checks: Robust regression
Model 4-8: Robust Check 3.2: Outlier checks: Median regression
Model 4-8: Robust Check 3.3: Outlier checks: Discard 2 cases highst cooksd
Model 4-8: Robust Ck 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)
Model 4-8: Robust Ck 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags
Model 4-8: Robust Ck 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)
Model 4-8: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

Research plan: Table 2.4, Model 4-9: DV Access to Water, IV democ 1900-1990

Model 4-9: Bivariate correlations among independent variables
Model 4-9: Safe water predicted by 7 baseline var only
Model 4-9: Safe water predicted by 7 baseline var + democ 1900-1990
Model 4-9: Means and SDs of access to improved water and long term democratic experience
Model 4-9: How much would access to improved water rise if LT demo exper rose one SD?
Model 4-9: Robust Check 1.1: Change specification: Exclude fertility

Model 4-9: Robust Check 1.2: Change specification: Include mean years of female schooling
Model 4-9: Robust Check 1.3: Change specification: Include female literacy
Model 4-9: Robust Check 1.4: Change specification: Include geographical variables
Model 4-9: Robust Check 1.5: Change specification: Include regional dummies
Model 4-9: Robust Check 2.1: Imputation check: Include missing data flags
Model 4-9: Robust Check 3.1: Outlier checks: Robust regression
Model 4-9: Robust Check 3.2: Outlier checks: Median regression
Model 4-9: Robust Check 3.3: Outlier checks: Discard 2 cases highst cooksd
Model 4-9: Robust Check 6.3: IndV: Vary source: pavg0090 to pavg7090
Model 4-9: Robust Check 6.4: IndV: Vary source: pavg0090 to free7290
Model 4-9: Robust Ck 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)
Model 4-9: Robust Ck 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags
Model 4-9: Robust Ck 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)
Model 4-9: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

Research plan: Table 2.4, Model 4-10: DV infant mortality, IV democ 1900-1990

Model 4-10: Bivariate correlations among independent variables
Model 4-10: Infant mortality predicted by 7 baseline var only (same as Model 2-3)
Model 4-10: Infant Mortality predicted by 7 baseline var + democ 1900-1990
Model 4-10: Means and SDs of infant mortality and democ 1900-1990
Model 4-10: How much would infant mortality fall if democ 1900-1990 rose one SD?
Model 4-10: Robust Check 1.1: Change specification: Exclude fertility
Model 4-10: Robust Check 1.1a: Change specification: Exclude fertility, discard 2 cases hi cooksd
Model 4-10: Robust Check 1.2: Change specification: Include mean years of female schooling
Model 4-10: Robust Check 1.3: Change specification: Include female literacy
Model 4-10: Robust Check 1.4: Change specification: Include geographical variables
Model 4-10: Robust Check 1.5: Change specification: Include regional dummies
Model 4-10: Robust Check 2.1: Imputation check: Include missing data flags
Model 4-10: Robust Check 3.1: Outlier checks: Robust regression
Model 4-10: Robust Check 3.2: Outlier checks: Median regression
Model 4-10: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd
Model 4-10: Robust Check 4.1: Endog ck: Corr candid instrum (CI) & hypoth endog reg (HER)
Model 4-10: Robust Check 4.2: Endog ck: Does CI predict HER in presence of exog regressors?
Model 4-10: Robust Check 4.3: Endog ck: 2SLS using CI as instrument for HER
Model 4-10: Robust Check 4.4: Endog ck: Hausman test for diff betw coeff of OLS & of 2SLS
Model 4-10: Robust Check 4.2a: Endog ck: Does CI predict HER, disc 2 hi cooksd?
Model 4-10: Robust Check 4.3a: Endog ck: 2SLS using CI as instrum for HER, disc 2 hi cooksd
Model 4-10: Robust Check 4.4a: Endog ck: Hausman test, disc 2 hi cooksd
Model 4-10: Robust Check 5.1: DepV: change IMR to U5MR (limrcom to lu5mrcom)
Model 4-10: Robust Check 5.2: DepV: Vary source: infant mortality (limrcom to limrwdi)
Model 4-10: Robust Check 6.3: IndV: Vary source: pavg0090 to pavg7090
Model 4-10: Robust Check 6.4: IndV: Vary source: pavg0090 to free7290
Model 4-10: Robust Check 7.1: CtrlV: Vary source: GDP/cap at PPP (lgdph to lgdpmx)
Model 4-10: Robust Check 7.2: CtrlV: Vary source: lgdph to lgdpmx, msg flags
Model 4-10: Robust Check 7.3: CtrlV: Vary source: ethnic fragment (ethnl to ethnannx)
Model 4-10: Robust Check 7.4: CtrlV: Vary source: ethnl to ethnannx, msg flags

Research Plan for Table 2.5

Research plan: Table 2.5, Model 5-1: DV health sp as % GDP, IV democ 1980-1990

Model 5-1: Bivariate correlations among independent variables
Model 5-1: DV health sp as % GDP, IV lgdph pop65 lpopd urbwdi
Model 5-1: DV health sp as % GDP, IV democ 1980-1990, lgdph pop65 lpopd urbwdi
Model 5-1: Robust Check 1.2: Change specification: Include mean years of female schooling
Model 5-1: Robust Check 1.3: Change specification: Include female literacy
Model 5-1: Robust Check 1.4: Change specification: Include geographical variables
Model 5-1: Robust Check 1.5: Change specification: Include regional dummies
Model 5-1: Robust Check 2.1: Imputation check: Include missing data flags
Model 5-1: Robust Check 3.1: Outlier checks: Robust regression
Model 5-1: Robust Check 3.2: Outlier checks: Median regression
Model 5-1: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd
Model 5-1: Robust Check 6.5: IndV: Vary source: pavg8090 to pol90
Model 5-1: Robust Check 6.6: IndV: Vary source: pavg8090 to free8090
Model 5-1: Robust Check 6.7: IndV: Vary source: pavg8090 to free90
Model 5-1: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)
Model 5-1: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

Research plan: Table 2.5, Model 5-2: DV attended births, IV democ 1980-1990

Model 5-2: Bivariate correlations among independent variables
Model 5-2: Birth attendance predicted by 7 baseline var only (same as Model 4-1)
Model 5-2: Birth attendance predicted by 7 baseline var + democ 1980-1990
Model 5-2: Robust Check 1.1: Change specification: Exclude fertility
Model 5-2: Robust Check 1.2: Change specification: Include mean years of female schooling
Model 5-2: Robust Check 1.3: Change specification: Include female literacy
Model 5-2: Robust Check 1.4: Change specification: Include geographical variables
Model 5-2: Robust Check 1.5: Change specification: Include regional dummies
Model 5-2: Robust Check 2.1: Imputation check: Include missing data flags
Model 5-2: Robust Check 3.1: Outlier checks: Robust regression
Model 5-2: Robust Check 3.2: Outlier checks: Median regression
Model 5-2: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd
Model 5-2: Robust Check 6.5: IndV: Vary source: pavg8090 to pol90
Model 5-2: Robust Check 6.5a: IndV: Vary source: pavg8090 to pol90, disc 2 highst cooksd
Model 5-2: Robust Check 6.6: IndV: Vary source: pavg8090 to free8090
Model 5-2: Robust Check 6.6a: IndV: Vary source: pavg8090 to free8090, disc 2 highst cooksd
Model 5-2: Robust Check 6.7: IndV: Vary source: pavg8090 to free90
Model 5-2: Robust Check 6.7a: IndV: Vary source: pavg8090 to free90, disc 2 highst cooksd
Model 5-2: Robust Check 7.1: CtrlV: Vary source: GDP/cap at PPP (lgdph to lgdpmx)
Model 5-2: Robust Check 7.2: CtrlV: Vary source: lgdph to lgdpmx, msg flags
Model 5-2: Robust Check 7.3: CtrlV: Vary source: ethnic fragment (ethnl to ethnannx)
Model 5-2: Robust Check 7.4: CtrlV: Vary source: ethnl to ethnannx, msg flags

Research plan: Table 2.5, Model 5-3: DV attended births, IV democ 1980-1990, - outlirs

Same as Model 5-2: Robust Check 3.3

Research plan: Table 2.5, Model 5-4: DV female schooling, IV democ 1980-1990

Model 5-4: Bivariate correlations among independent variables
Model 5-4: Female schooling predicted by 7 baseline var only
Model 5-4: Female schooling predicted by 7 baseline var + democ 1980-1990
Model 5-4: Robust Check 1.1: Change specification: Exclude fertility
Model 5-4: Robust Check 1.1a: Change specification: Exclude fertility, disc 2 cases highest cooksd
Model 5-4: Robust Check 1.4: Change specification: Include geographical variables
Model 5-4: Robust Check 1.5: Change specification: Include regional dummies
Model 5-4: Robust Check 2.1: Imputation check: Include missing data flags
Model 5-4: Robust Check 3.1: Outlier checks: Robust regression
Model 5-4: Robust Check 3.2: Outlier checks: Median regression
Model 5-4: Robust Check 3.3: Outlier checks: Discard 2 cases highst cooksd (same as Model 5-3)
Model 5-4: Robust Check 6.5: IndV: Vary source: pavg8090 to pol90
Model 5-4: Robust Check 6.6: IndV: Vary source: pavg8090 to free8090
Model 5-4: Robust Check 6.7: IndV: Vary source: pavg8090 to free90
Model 5-4: Robust Ck 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)
Model 5-4: Robust Ck 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags
Model 5-4: Robust Ck 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)
Model 5-4: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

Research plan: Table 2.5, Model 5-5: DV fem sch, IV democ 1980-1990, fertility excl

Model 5-5: Fem school predicted by six baseline variables excluding fertility
Model 5-5: Fem school predicted by six baseline var excl fert + democ8090 (same M 4-4 RC 1.1)
Model 5-5: Means and SDs of mean yrs fem school and short term democratic practice
Model 5-5: How much would female schooling rise if ST demo practice rose one SD?
Model 5-5: Robust Check 1.4: Change specification: Include geographical variables
Model 5-5: Robust Check 1.5: Change specification: Include regional dummies
Model 5-5: Robust Check 2.1: Imputation check: Include missing data flags
Model 5-5: Robust Check 3.1: Outlier checks: Robust regression
Model 5-5: Robust Check 3.2: Outlier checks: Median regression
Model 5-5: Robust Check 3.3: Outlier checks: Discard 2 cases highst cooksd
Model 5-5: Robust Check 6.5: IndV: Vary source: pavg8090 to pol90
Model 5-5: Robust Check 6.6: IndV: Vary source: pavg8090 to free8090
Model 5-5: Robust Check 6.7: IndV: Vary source: pavg8090 to free90
Model 5-5: Robust Ck 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)
Model 5-5: Robust Ck 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags
Model 5-5: Robust Ck 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)
Model 5-5: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

Research plan: Table 2.5, Model 5-6: DV fam plan, IV democ 1980-1990, fertility excl

Model 5-6: Bivariate correlations among independent variables
Model 5-6: Family planning effort predicted by six baseline variables excluding fertility
Model 5-6: Family planning effort predicted by six baseline var excl fert + democ 1980-1990
Model 5-6: Means and SDs of family planning effort and short term democratic practice
Model 5-6: Estimate magnitude of effect on rtot of a 1 SD chg in pavg8090
Model 5-6: How much would family planning effort rise if ST demo practice rose one SD?
Model 5-6: Robust Check 1.1: Change specification: Include fertility
Model 5-6: Robust Check 1.2: Change specification: Include mean years of female schooling

Model 5-6: Robust Check 1.3: Change specification: Include female literacy
Model 5-6: Robust Check 1.4: Change specification: Include geographical variables
Model 5-6: Robust Check 1.5: Change specification: Include regional dummies
Model 5-6: Robust Check 2.1: Imputation check: Include missing data flags
Model 5-6: Robust Check 3.1: Outlier checks: Robust regression
Model 5-6: Robust Check 3.2: Outlier checks: Median regression
Model 5-6: Robust Check 3.3: Outlier checks: Discard 2 cases highst cooksd
Model 5-6: Robust Check 6.5: IndV: Vary source: pavg8090 to pol90
Model 5-6: Robust Check 6.6: IndV: Vary source: pavg8090 to free8090
Model 5-6: Robust Check 6.7: IndV: Vary source: pavg8090 to free90
Model 5-6: Robust Ck 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)
Model 5-6: Robust Ck 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags
Model 5-6: Robust Ck 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)
Model 5-6: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

Research plan: Table 2.5, Model 5-7: DV fertility, IV democ 1980-1990, Fertility Excl

Model 5-7: Bivariate correlations among independent variables
Model 5-7: Fertility predicted by six baseline variables excluding fertility
Model 5-7: Fertility predicted by six baseline var (excl fertility) + democ 1980-1990
Model 5-7: Means and SDs of fertility and short term democratic practice
Model 5-7: How much would fertility fall if ST demo practice rose one SD?
Model 5-7: Robust Check 1.2: Change specification: Include mean years of female schooling
Model 5-7: Robust Check 1.3: Change specification: Include female literacy
Model 5-7: Robust Check 1.4: Change specification: Include geographical variables
Model 5-7: Robust Check 1.5: Change specification: Include regional dummies
Model 5-7: Robust Check 1.6: Change specification: Include family planning effort
Model 5-7: Robust Check 2.1: Imputation check: Include missing data flags
Model 5-7: Robust Check 3.1: Outlier checks: Robust regression
Model 5-7: Robust Check 3.2: Outlier checks: Median regression
Model 5-7: Robust Check 3.3: Outlier checks: Discard 2 cases highst cooksd
Model 5-7: Robust Check 6.5: IndV: Vary source: pavg8090 to pol90
Model 5-7: Robust Check 6.6: IndV: Vary source: pavg8090 to free8090
Model 5-7: Robust Check 6.7: IndV: Vary source: pavg8090 to free90
Model 5-7: Robust Ck 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)
Model 5-7: Robust Ck 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags
Model 5-7: Robust Ck 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)
Model 5-7: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

Research plan: Table 2.5, Model 5-8: DV fertility, IV family Planning, Fertility Excl

Identical to Table 2.4, Model 4-8

Research plan: Table 2.5, Model 5-9: DV safe water, IV democ 1980-90

Model 5-9: Bivariate correlations among independent variables
Model 5-9: Safe water predicted by 7 baseline var only
Model 5-9: Safe water predicted by 7 baseline var + democ 1980-1990

Model 5-9: Means and SDs of access to improved water and short term democratic practice
Model 5-9: How much would access to improved water rise if ST demo practice rose one SD?
Model 5-9: Robust Check 1.1: Change specification: Exclude fertility
Model 5-9: Robust Check 1.2: Change specification: Include mean years of female schooling
Model 5-9: Robust Check 1.3: Change specification: Include female literacy
Model 5-9: Robust Check 1.4: Change specification: Include geographical variables
Model 5-9: Robust Check 1.5: Change specification: Include regional dummies
Model 5-9: Robust Check 2.1: Imputation check: Include missing data flags
Model 5-9: Robust Check 3.1: Outlier checks: Robust regression
Model 5-9: Robust Check 3.2: Outlier checks: Median regression
Model 5-9: Robust Check 3.3: Outlier checks: Discard 2 cases highst cooksd
Model 5-9: Robust Check 6.5: IndV: Vary source: pavg8090 to pol90
Model 5-9: Robust Check 6.6: IndV: Vary source: pavg8090 to free8090
Model 5-9: Robust Check 6.7: IndV: Vary source: pavg8090 to free90
Model 5-9: Robust Ck 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)
Model 5-9: Robust Ck 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags
Model 5-9: Robust Ck 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)
Model 5-9: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

Research plan: Table 2.5, Model 5-10: DV IMR, IV democ 1980-1990

Model 5-10: Bivariate correlations among independent variables
Model 5-10: Infant mortality predicted by 7 baseline var only (same as Model 2-3)
Model 5-10: Infant mortality predicted by 7 baseline var + democ 1980-1990
Model 5-10: Robust Check 1.1: Change specification: Exclude fertility
Model 5-10: Robust Check 1.1a: Change specification: Exclude fertility, disc 2 cases hicooksd
Model 5-10: Robust Check 1.2: Change specification: Include mean years of female schooling
Model 5-10: Robust Check 1.3: Change specification: Include female literacy
Model 5-10: Robust Check 1.4: Change specification: Include geographical variables
Model 5-10: Robust Check 1.5: Change specification: Include regional dummies
Model 5-10: Robust Check 2.1: Imputation check: Include missing data flags
Model 5-10: Robust Check 3.1: Outlier checks: Robust regression
Model 5-10: Robust Check 3.2: Outlier checks: Median regression
Model 5-10: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd
Model 5-10: Robust Check 5.1: DepV: change IMR to U5MR (limrcom to lu5mrcom)
Model 5-10: Robust Check 5.2: DepV: Vary source: infant mortality (limrcom to limrwdi)
Model 5-10: Robust Check 6.5: IndV: Vary source: pavg8090 to pol90
Model 5-10: Robust Check 6.6: IndV: Vary source: pavg8090 to free8090
Model 5-10: Robust Check 6.7: IndV: Vary source: pavg8090 to free90
Model 5-10: Robust Check 7.1: CtrlV: Vary source: GDP/cap at PPP (lgdph to lgdpmx)
Model 5-10: Robust Check 7.2: CtrlV: Vary source: lgdph to lgdpmx, msg flags
Model 5-10: Robust Check 7.3: CtrlV: Vary source: ethnic fragment (ethnl to ethnannx)
Model 5-10: Robust Check 7.4: CtrlV: Vary source: ethnl to ethnannx, msg flags

Stata Do-Files for Each Model

To replicate the analyses in Tables 2.2, 2.3, 2.4, 2.5, and 2.6, or any of the analyses in this web appendix, cut and paste the block of cells ranging between A12 an IR117 in Web Appendix "McGuireD2DataT2T3T24T5" into the data window of the Stata statistical package, then run the following do files.

Initial Stata Do-File for all models

```
generate docs10wb = docswb/10
generate beds10wb = bedswb/10
generate latcapab = abs(latcap)
generate latcenab = abs(latcen)
generate limrcom = ln(imrcom)
generate lu5mrcom = ln(u5mrcom)
generate limrwdi = ln(imrwdi)
generate lu5mrwdi = ln(u5mrwdi)
generate limr85 = ln(imr85)
generate lu5mr85 = ln(u5mr85)
generate lpopcens = ln(popcens)
generate llifext = ln(lifext)
generate llifexf = ln(lifexf)
generate llifexm = ln(lifexm)
generate lmatmort = ln(matmort)
generate lgdpp61 = ln(gdpp61)
generate lgdpwdi = ln(gdpwdi)
generate lgdph = ln(gdph)
generate lgdpm = ln(gdpm)
generate lhlxpuwb = ln(hlxpuwb)
generate lhlxpuwd = ln(hlxpuwdi)
generate lhlxcpwx = ln(hlxcpwbx)
generate lpopdav = ln(popdav)
generate lpopd = ln(popd)
generate immzcon = ((dtp3con+mcvcon)/2)
generate ldocshdr = ln(docshdr)
generate lnurshdr = ln(nurshdr)
generate docnurs = (docshdr/nurshdr)
impute mysf litfewdi, g(mysfx)
impute gdpm gdpp61, g(gdpmx)
impute gdpp61 gdph, g(gdpp61x)
impute ethnann ethnl, g(ethnannx)
generate lgdpp61x = ln(gdpp61x)
generate lgdpmx = ln(gdpmx)
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r
```

Stata Do-Files for Table 2.2

Stata Do-File for Table 2.2, Models 2-1 to 2-3 (correlations)

```
correlate limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi
```

Stata Do-File for Table 2.2, Model 2-1

```
regress limrcom lgdph, r
```

Stata Do-File for Table 2.2, Model 2-2

```
regress limrcom lgdph giniavni, r
```

Stata Do-File for Table 2.2, Model 2-3

```
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r
summarize imrcom
summarize limrcom
summarize gdph
summarize lgdph
summarize giniavni
summarize musl
summarize ethnl
summarize fertwdi
summarize popd
summarize lpopd
summarize urbwdi
estsimp regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r
setx mean
simqi, tfunc(exp) fd(ev) changex(giniavni 44.15429 35.227838)
simqi, tfunc(exp) fd(ev) changex(ethnl .3922857 .0783214)
simqi, tfunc(exp) fd(ev) changex(musl .1904762 .5850363)
simqi, tfunc(exp) fd(ev) changex(musl 0 1)
simqi, tfunc(exp) fd(ev) changex(fertwdi 4.795238 6.469327)
simqi, tfunc(exp) fd(ev) changex(lpopd 5.258487068 6.839769971)
simqi, tfunc(exp) fd(ev) changex(urbwdi 43.81238 49.01238)

regress limrcom lgdph giniavni ethnl musl lpopd urbwdi, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mysfx, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi airdist popcrgs latcapab, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi litfewdi, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi afri lati east sout, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi gdphf giniavnf ethnlf, r
rreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi
qreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi if ctry ~= "Cuba" & ctry ~= "Mongolia",
r

correlate fertwdi fertwdin
ivreg limrcom lgdph giniavni ethnl musl (fertwdi = fertwdin) lpopd urbwdi , first
estimates store ivfertwdin
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi
hausman ivfertwdin, constant

regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r
regress limrwdi lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r
regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi, r
```

```
regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi gdpmf, r
regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi, r
regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi ethnannf, r
```

Stata Do-File for Table 2.2, Model 2-4 to 2-10 (all service variables in one model)

```
correlate limrcom delivcom dtp3con mcvcon mysfx rtot watecom sanicom
regress limrcom lgdph giniavni ethnl musl lpopd fertwdi urbwdi delivcom dtp3con mcvcon mysfx rtot
watecom sanicom, r
```

Stata Do-File for Table 2.2, Model 2-4

```
correlate lgdph giniavni ethnl musl fertwdi lpopd urbwdi delivcom
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi delivcom, r
summarize imrcom
summarize limrcom
summarize delivcom
estsimp regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi delivcom, r
setx mean
simqi, tfunc(exp) fd(ev) changex(delivcom 59.42718 87.32742)

regress limrcom lgdph giniavni ethnl musl lpopd urbwdi delivcom, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi delivcom mysfx, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi delivcom litfewdi, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi delivcom airdist popcrgs latcapab, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi delivcom afri lati east sout, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi delivcom gdphf giniavnf ethnlf, r
rreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi delivcom
qreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi delivcom
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi delivcom if ctry ~= "Mongolia" & ctry ~=
"Cuba", r

correlate delivcom rpos
ivreg limrcom lgdph giniavni ethnl musl lpopd urbwdi (delivcom = rpos), first
estimates store ivrpos
regress mcvcon lgdph giniavni ethnl musl fertwdi lpopd urbwdi delivcom
hausman ivrpos, constant

regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi delivcom, r
regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi delivcom, r
regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi delivcom gdpmf, r
regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi delivcom, r
regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi delivcom ethnannf, r
```

Stata Do-File for Table 2.2, Model 2-5

```
correlate lgdph giniavni ethnl musl fertwdi lpopd urbwdi dtp3con
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi dtp3con, r
summarize imrcom
summarize limrcom
```

```
summarize dtp3con
estsimp regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi dtp3con, r
setx mean
simqi, tfunc(exp) fd(ev) changex(dtp3con 71.93878 93.24064)

regress limrcom lgdph giniavni ethnl musl lpopd urbwdi dtp3con, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi dtp3con mysfx, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi dtp3con litfewdi, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi dtp3con airdist popcrgs latcapab, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi dtp3con afri lati east sout, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi dtp3con gdphf giniavnf ethnlf, r
rreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi dtp3con
qreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi dtp3con
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi dtp3con if ctry ~= "Mongolia" & ctry ~=
"Cuba", r

correlate fertwdi fertwdin
ivreg limrcom lgdph giniavni ethnl musl (fertwdi = fertwdin) lpopd dtp3con, first
estimates store ivfertdtp
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi dtp3con
hausman ivfertdtp, constant

regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi dtp3con, r
regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi dtp3con, r
regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi dtp3con gdpmf, r
regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi dtp3con, r
regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi dtp3con ethnannf, r
```

Stata Do-File for Table 2.2, Model 2-6

```
correlate lgdph giniavni ethnl musl fertwdi lpopd urbwdi mcvcon
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mcvcon, r
summarize imrcom
summarize limrcom
summarize mcvcon
estsimp regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mcvcon, r
setx mean
simqi, tfunc(exp) fd(ev) changex(mcvcon 71.40816 90.53812)

regress limrcom lgdph giniavni ethnl musl lpopd urbwdi mcvcon, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mcvcon mysfx, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mcvcon litfewdi, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mcvcon airdist popcrgs latcapab, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mcvcon afri lati east sout, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mcvcon gdphf giniavnf ethnlf, r
rreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mcvcon
qreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mcvcon
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mcvcon if ctry ~= "Mongolia" & ctry ~=
"Cuba", r

correlate fertwdi fertwdin
ivreg limrcom lgdph giniavni ethnl musl (fertwdi = fertwdin) lpopd mcvcon, first
```

```
estimates store ivfertmcv
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mcvcon
hausman ivfertmcv, constant

regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mcvcon, r
regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi mcvcon, r
regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi mcvcon gdpmf, r
regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi mcvcon, r
regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi mcvcon ethnannf, r
```

Stata Do-File for Table 2.2, Model 2-7

```
correlate lgdph giniavni ethnl musl fertwdi lpopd urbwdi mysfx
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mysfx, r
summarize imrcom
summarize limrcom
summarize mysfx
estsimp regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mysfx, r
setx mean
simqi, tfunc(exp) fd(ev) changex(mysfx 3.64511 5.854383)

regress limrcom lgdph giniavni ethnl musl lpopd urbwdi mysfx, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mysfx airdist popcrgs latcapab, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mysfx afri lati east sout, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mysfx gdphf giniavnf ethnlf, r
rreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mysfx
qreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mysfx
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mysfx if ctry ~= "Mongolia" & ctry ~=
"Cuba", r

correlate fertwdi fertwdin
ivreg limrcom lgdph giniavni ethnl musl (fertwdi = fertwdin) lpopd mysfx, first
estimates store ivfertmys
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mysfx
hausman ivfertmys, constant

regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mysfx, r
regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi mysfx, r
regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi mysfx gdpmf, r
regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi mysfx, r
regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi mysfx ethnannf, r
```

Stata Do-File for Table 2.2, Model 2-8

```
correlate lgdph giniavni ethnl musl fertwdi lpopd urbwdi rtot
regress limrcom lgdph giniavni ethnl musl lpopd urbwdi, r
regress limrcom lgdph giniavni ethnl musl lpopd urbwdi rtot, r
summarize imrcom
summarize limrcom
summarize rtot
estsimp regress limrcom lgdph giniavni ethnl musl lpopd urbwdi rtot, r
```

```
setx mean
simqi, tfunc(exp) fd(ev) changex(rtot 53.85 79.12719)

regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi rtot, r
regress limrcom lgdph giniavni ethnl musl lpopd urbwdi rtot mysfx, r
regress limrcom lgdph giniavni ethnl musl lpopd urbwdi rtot litfewdi, r
regress limrcom lgdph giniavni ethnl musl lpopd urbwdi rtot airdist popcrgs latcapab, r
regress limrcom lgdph giniavni ethnl musl lpopd urbwdi rtot afri lati east sout, r
regress limrcom lgdph giniavni ethnl musl lpopd urbwdi rtot gdphf giniavnf ethnlf, r
rreg limrcom lgdph giniavni ethnl musl lpopd urbwdi rtot
qreg limrcom lgdph giniavni ethnl musl lpopd urbwdi rtot
regress limrcom lgdph giniavni ethnl musl lpopd urbwdi rtot if ctry ~= "Namibia" & ctry ~= "Cuba", r
regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi rtot, r
regress limrcom lgdpmx giniavni ethnl musl lpopd urbwdi rtot, r
regress limrcom lgdpmx giniavni ethnl musl lpopd urbwdi rtot gdpmf, r
regress limrcom lgdph giniavni ethnannx musl lpopd urbwdi rtot, r
regress limrcom lgdph giniavni ethnannx musl lpopd urbwdi rtot ethnannf, r
```

Stata Do-File for Table 2.2, Model 2-9

```
correlate lgdph giniavni ethnl musl fertwdi lpopd urbwdi watecom
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi watecom, r
summarize imrcom
summarize limrcom
summarize watecom
estsimp regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi watecom, r
setx mean
simqi, tfunc(exp) fd(ev) changex(watecom 68.07619 91.55232)

regress limrcom lgdph giniavni ethnl musl lpopd urbwdi watecom, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi watecom mysfx, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi watecom litfewdi, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi watecom airdist popcrgs latcapab, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi watecom afri lati east sout, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi watecom gdphf giniavnf ethnlf, r
rreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi watecom
qreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi watecom
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi watecom if ctry ~= "Mongolia" & ctry ~=
"Cuba", r

correlate fertwdi fertwdin
ivreg limrcom lgdph giniavni ethnl musl (fertwdi = fertwdin) lpopd watecom, first
estimates store ivfertwate
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi watecom
hausman ivfertwate, constant

regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi watecom, r
regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi watecom, r
regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi watecom gdpmf, r
regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi watecom, r
regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi watecom ethnannf, r
```

Stata Do-File for Table 2.2, Model 2-10

```
correlate lgdph giniavni ethnl musl fertwdi lpopd urbwdi sanicom
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi sanicom, r
summarize imrcom
summarize limrcom
summarize sanicom
estsimp regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi sanicom, r
setx mean
simqi, tfunc(exp) fd(ev) changex(sanicom 52.36275 81.62286)

regress limrcom lgdph giniavni ethnl musl lpopd urbwdi sanicom, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi sanicom mysfx, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi sanicom litfewdi, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi sanicom airdist popcrgs latcapab, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi sanicom afri lati east sout, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi sanicom gdphf giniavnf ethnlf, r
rreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi sanicom
qreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi sanicom
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi sanicom if ctry ~= "Mongolia" & ctry ~=
"Cuba", r

correlate fertwdi fertwdin
ivreg limrcom lgdph giniavni ethnl musl (fertwdi = fertwdin) lpopd sanicom, first
estimates store ivfertsani
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi sanicom
hausman ivfertsani, constant

regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi sanicom, r
regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi sanicom, r
regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi sanicom gdpmf, r
regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi sanicom, r
regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi sanicom ethnannf, r
```

Stata Do-Files for Table 2.3

Stata Do-File for Table 2.3, Model 3-1

```
correlate lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi hlxpuwdi delivcom
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi, r
summarize hlxpuwdi
summarize delivcom
estsimp regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi,
setx mean
simqi, fd(ev) changex(hlxpuwdi 2.001905 3.277111)

regress delivcom lgdph giniavni ethnl musl lpopd urbwdi hlxpuwdi, r
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi mysfx, r
```

```
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi litfewdi, r
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi airdist popcrgs latcapab, r
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi afri lati east sout, r
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi gdphf giniavnf ethnlf, r
rreg delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi
qreg delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi if ctry ~= "Oman" & ctry ~=
"Myanmar", r

correlate hlxpuwdi hlxwdns
ivreg delivcom lgdph giniavni ethnl musl lpopd urbwdi (hlxpuwdi = hlxwdns), first
estimates store ivwdns
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi
hausman ivwdns, constant

regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb, r
regress delivcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi, r
regress delivcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi gdpmf, r
regress delivcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi hlxpuwdi, r
regress delivcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi hlxpuwdi ethnannf, r
```

Stata Do-File for Table 2.3, Model 3-2

```
correlate lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi hlxpuwdi dtp3con
regress dtp3con lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r
regress dtp3con lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi, r
summarize hlxpuwdi
summarize dtp3con
estsimp regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi dtp3con,
setx mean
simqi, fd(ev) changex(hlxpuwdi 2.001905 3.277111)

regress dtp3con lgdph giniavni ethnl musl lpopd urbwdi hlxpuwdi, r
regress dtp3con lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi mysfx, r
regress dtp3con lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi litfewdi, r
regress dtp3con lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi airdist popcrgs latcapab, r
regress dtp3con lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi afri lati east sout, r
regress dtp3con lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi gdphf giniavnf ethnlf, r
rreg dtp3con lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi
qreg dtp3con lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi
regress dtp3con lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi if ctry ~= "Laos" & ctry ~=
"Afghanistan", r

correlate hlxpuwdi hlxwdns
ivreg dtp3con lgdph giniavni ethnl musl lpopd urbwdi (hlxpuwdi = hlxwdns), first
estimates store ivdtpdv
regress dtp3con lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi
hausman ivdtpdv, constant

regress dtp3con lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb, r
regress dtp3con lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi, r
regress dtp3con lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi gdpmf, r
regress dtp3con lgdph giniavni ethnannx musl fertwdi lpopd urbwdi hlxpuwdi, r
```

```
regress dtp3con lgdph giniavni ethnannx musl fertwdi lpopd urbwdi hlxpuwdi ethnannf, r
```

Stata Do-File for Table 2.3, Model 3-3

```
correlate lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi hlxpuwdi mcvcon
regress mcvcon lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r
regress mcvcon lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi, r
summarize hlxpuwdi
summarize mcv3con
estsimp regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mcv3con,
setx mean
simqi, fd(ev) changex(hlxpuwdi 2.001905 3.277111)

regress mcvcon lgdph giniavni ethnl musl lpopd urbwdi hlxpuwdi, r
regress mcvcon lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi mysfx, r
regress mcvcon lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi litfewdi, r
regress mcvcon lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi airdist popcrgs latcapab, r
regress mcvcon lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi afri lati east sout, r
regress mcvcon lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi gdphf giniavnf ethnlf, r
rreg mcvcon lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi
qreg mcvcon lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi
regress mcvcon lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi if ctry ~= "Oman" & ctry ~=
"Afghanistan", r

correlate hlxpuwdi hlxwdns
ivreg mcvcon lgdph giniavni ethnl musl lpopd urbwdi (hlxpuwdi = hlxwdns), first
estimates store ivmcvdv
regress mcvcon lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi
hausman ivmcvdv, constant

regress mcvcon lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb, r
regress mcvcon lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi, r
regress mcvcon lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi gdpmf, r
regress mcvcon lgdph giniavni ethnannx musl fertwdi lpopd urbwdi hlxpuwdi, r
regress mcvcon lgdph giniavni ethnannx musl fertwdi lpopd urbwdi hlxpuwdi ethnannf, r
```

Stata Do-File for Table 2.3, Models 3-4 to 3-10 (correlations)

```
correlate lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi hlxwdns
```

Stata Do-File for Table 2.3, Model 3-4

```
correlate lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi hlxwdns
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi, r
summarize imrcom
summarize limrcom
summarize hlxpuwb
estsimp regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi, r
setx mean
```

```
simqi, fd(ev) changex(hlxpuwdi 2.001905 3.277111)
simqi, fd(ev) changex(hlxpuwdi 2.001905 4.0039)
regress limrcom lgdph giniavni ethnl musl lpopd urbwdi hlxpuwdi, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi mysfx, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi litfewdi, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi airdist popcrgs latcapab, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi afri lati east sout, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi gdphf giniavnf ethnlf, r
rreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi
qreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi if ctry ~= "Mongolia" & ctry
~= "Cuba", r

correlate hlxpuwdi hlxwdns
ivreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi (hlxpuwdi = hlxwdns), first
estimates store ivhlximr
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi
hausman hlximr, constant

regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi lhlxpuwd, r
regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi, r
regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi gdpmf, r
regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi hlxpuwdi, r
regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi hlxpuwdi ethnannf, r
```

Stata Do-File for Table 2.3, Model 3-5

```
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi if ctry ~= "Mongolia" & ctry
~= "Cuba", r
summarize imrcom
summarize limrcom
summarize hlxpuwdi
estsimp regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi if ctry ~= "Mongolia"
& ctry ~= "Cuba", r
setx mean
simqi, fd(ev) changex(hlxpuwdi 2.001905 3.277111)
simqi, fd(ev) changex(hlxpuwdi 2.001905 4.0039)

regress limrcom lgdph giniavni ethnl musl lpopd urbwdi hlxpuwdi if ctry ~= "Mongolia" & ctry ~=
"Cuba", r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi mysfx if ctry ~= "Mongolia" &
ctry ~= "Cuba", r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi litfewdi if ctry ~= "Mongolia"
& ctry ~= "Cuba", r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi airdist popcrgs latcapab if ctry
~= "Mongolia" & ctry ~= "Cuba", r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi afri lati east sout if ctry ~=
"Mongolia" & ctry ~= "Cuba", r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi gdphf giniavnf ethnlf if ctry ~=
"Mongolia" & ctry ~= "Cuba", r
```

```
rreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi if ctry ~= "Mongolia" & ctry ~= "Cuba"
qreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi if ctry ~= "Mongolia" & ctry ~= "Cuba"

correlate hlxpuwdi hlxwdns
ivreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi (hlxpuwdi = hlxwdns) if ctry ~= "Mongolia" & ctry ~= "Cuba", first
estimates store hlxwdicooksd
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi if ctry ~= "Mongolia" & ctry ~= "Cuba"
hausman hlxwdicooksd, constant

regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi if ctry ~= "Mongolia" & ctry ~= "Cuba", r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb if ctry ~= "Mongolia" & ctry ~= "Cuba", r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi lhlxpuwd if ctry ~= "Mongolia" & ctry ~= "Cuba", r
regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi if ctry ~= "Mongolia" & ctry ~= "Cuba", r
regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi gdpmf if ctry ~= "Mongolia" & ctry ~= "Cuba", r
regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi hlxpuwdi if ctry ~= "Mongolia" & ctry ~= "Cuba", r
regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi hlxpuwdi ethnannf if ctry ~= "Mongolia" & ctry ~= "Cuba", r
```

Stata Do-File for Table 2.3, Model 3-6

```
correlate lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi hlxpuwb
summarize imrcom
summarize limrcom
summarize hlxpuwb
estsimp regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb, r
setx mean
simqi, fd(ev) changex(hlxpuwb 2.24381 3.7308)
simqi, fd(ev) changex(hlxpuwb 2.24381 4.48762)
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb, r
regress limrcom lgdph giniavni ethnl musl lpopd urbwdi hlxpuwb, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb mysfx, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb litfewdi, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb airdist popcrgs latcapab, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb afri lati east sout, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb gdphf giniavnf ethnlf, r
rreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb
qreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb if ctry ~= "Mongolia" & ctry ~= "Cuba", r
regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi lhlxpuwb, r
regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb, r
regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb gdpmf, r
```

```
regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi hlxpuwb, r
regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi hlxpuwb ethnannf, r
```

Stata Do-File for Table 2.3, Model 3-7

```
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb if ctry ~= "Mongolia" & ctry ~= "Cuba", r
summarize imrcom
summarize limrcom
summarize hlxpuwb
estsimp regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb if ctry ~= "Mongolia" & ctry ~= "Cuba", r
setx mean
simqi, fd(ev) changex(hlxpuwb 2.24381 3.7308)
simqi, fd(ev) changex(hlxpuwb 2.24381 4.48762)

regress limrcom lgdph giniavni ethnl musl lpopd urbwdi hlxpuwb if ctry ~= "Mongolia" & ctry ~= "Cuba", r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb mysfx if ctry ~= "Mongolia" & ctry ~= "Cuba", r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb litfewdi if ctry ~= "Mongolia" & ctry ~= "Cuba", r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb airdist popcrgs latcapab if ctry ~= "Mongolia" & ctry ~= "Cuba", r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb afri lati east sout if ctry ~= "Mongolia" & ctry ~= "Cuba", r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb gdphf giniavnf ethnlf if ctry ~= "Mongolia" & ctry ~= "Cuba", r
rreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb if ctry ~= "Mongolia" & ctry ~= "Cuba"
qreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb if ctry ~= "Mongolia" & ctry ~= "Cuba"

correlate hlxpuwb hlxwdns
ivreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi (hlxpuwb = hlxwdns) if ctry ~= "Mongolia" & ctry ~= "Cuba", first
estimates store hlxwbcooksd
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb if ctry ~= "Mongolia" & ctry ~= "Cuba"
hausman hlxwbcooksd, constant

regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb if ctry ~= "Mongolia" & ctry ~= "Cuba", r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi lhlxpuwb if ctry ~= "Mongolia" & ctry ~= "Cuba", r
regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb if ctry ~= "Mongolia" & ctry ~= "Cuba", r
regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb gdpmf if ctry ~= "Mongolia" & ctry ~= "Cuba", r
regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi hlxpuwb if ctry ~= "Mongolia" & ctry ~= "Cuba", r
regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi hlxpuwb ethnannf if ctry ~= "Mongolia" & ctry ~= "Cuba", r
```

Stata Do-File for Table 2.3, Model 3-8

```
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi delivcom if ctry ~= "Mongolia" & ctry ~= "Cuba", r
```

Stata Do-File for Table 2.3, Model 3-9

```
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi dtp3con if ctry ~= "Mongolia" & ctry ~= "Cuba", r
```

Stata Do-File for Table 2.3, Model 3-10

```
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi mcvcon if ctry ~= "Mongolia" & ctry ~= "Cuba", r
```

Stata Do-Files for Table 2.4

Stata Do-File for Table 2.4, Model 4-1

```
correlate hlxpuwdi lgdph giniavni age65 lpopd urbwdi pavg0090
regress hlxpuwdi lgdph giniavni lpopd urbwdi age65, r
regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg0090, r
regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg0090 mysfx, r
regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg0090 litfewdi, r
regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg0090 airdist popcrgs latcapab, r
regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg0090 afri lati east sout, r
regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg0090 gdphf, r
rreg hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg0090
qreg hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg0090
regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg0090 if ctry ~= "Mongolia" & ctry ~= "Costa Rica", r
regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg7090, r
regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 free7290, r
regress hlxpuwdi lgdpmx giniavni lpopd urbwdi age65 pavg0090, r
regress hlxpuwdi lgdpmx giniavni lpopd urbwdi age65 pavg0090 gdpmf, r
```

Stata Do-File for Table 2.4, Model 4-2

```
correlate delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090, r
regress delivcom lgdph giniavni ethnl musl lpopd urbwdi pavg0090, r
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 mysfx, r
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 litfewdi, r
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 airdist popcrgs latcapab, r
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 afri lati east sout, r
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 gdphf giniavnf ethnlf, r
rreg delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090
qreg delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090
```

```
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 if ctry ~= "Oman" & ctry ~= "Papua", r
regress delivcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg7090, r
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg7090 if ctry ~= "Oman" & ctry ~= "Myanmar", r
regress delivcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi free7290, r
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi free7290 if ctry ~= "Oman" & ctry ~= "Bangladesh", r
regress delivcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg0090, r
regress delivcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 gdpmf, r
regress delivcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg0090, r
```

Stata Do-File for Table 2.4, Model 4-3

```
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 if ctry ~= "Oman" & ctry ~= "Papua", r

summarize delivcom
summarize pavg0090
estsimp regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 if ctry ~= "Oman" & ctry ~= "Papua", r
setx mean
simqi, fd(ev) changex(pavg0090 -3.0848 2.2102)
```

Stata Do-File for Table 2.4, Model 4-4

```
correlate mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090
regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r
regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090, r
regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg0090, r
regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg0090 if ctry ~= "Singapore" & ctry ~= "Oman", r
regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 airdist popcrgs latcapab, r
regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 afri lati east sout, r
regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 gdphf giniavnf ethnlf, r
rreg mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090
qreg mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090
regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 if ctry ~= "Singapore" & ctry ~= "Swaziland", r
regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg7090, r
regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi free7290, r
regress mysfx lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg0090, r
regress mysfx lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 gdpmf, r
regress mysfx lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg0090, r
regress mysfx lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg0090 ethnannf, r
```

Stata Do-File for Table 2.4, Model 4-5

```
correlate mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg0090
regress mysfx lgdph giniavni ethnl musl lpopd urbwdi, r
regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg0090, r
```

```
summarize mysfx
summarize pavg0090
estsimp regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg0090, r
setx mean
simqi, fd(ev) changex(pavg0090 -3.0848 2.2102)

regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg0090 airdist popcrgs latcapab, r
regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg0090 afri lati east sout, r
regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg0090 gdphf giniavnf ethnlf, r
rreg mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg0090
qreg mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg0090
regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg0090 if ctry ~= "Singapore" & ctry ~=
"Oman", r
regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg7090, r
regress mysfx lgdph giniavni ethnl musl lpopd urbwdi free7290, r
regress mysfx lgdpmx giniavni ethnl musl lpopd urbwdi pavg0090, r
regress mysfx lgdpmx giniavni ethnl musl lpopd urbwdi pavg0090 gdpmf, r
regress mysfx lgdph giniavni ethnannx musl lpopd urbwdi pavg0090, r
regress mysfx lgdph giniavni ethnannx musl lpopd urbwdi pavg0090 ethnannf, r
```

Stata Do-File for Table 2.4, Model 4-6

```
correlate rtot lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090
regress rtot lgdph giniavni ethnl musl lpopd urbwdi, r
regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg0090, r
summarize rtot
summarize pavg0090
estsimp regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg0090, r
simqi, fd(ev) changex(pavg0090 -3.0848 2.2102)

regress rtot lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090, r
regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg0090 mysfx, r
regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg0090 litfewdi, r
regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg0090 airdist popcrgs latcapab, r
regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg0090 afri lati east sout, r
regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg0090 gdphf giniavnf ethnlf, r
rreg rtot lgdph giniavni ethnl musl lpopd urbwdi pavg0090
qreg rtot lgdph giniavni ethnl musl lpopd urbwdi pavg0090
regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg0090 if ctry ~= "Kuwait" & ctry ~= "Namibia", r
regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg7090, r
regress rtot lgdph giniavni ethnl musl lpopd urbwdi free7290, r
regress rtot lgdpmx giniavni ethnl musl lpopd urbwdi pavg0090, r
regress rtot lgdpmx giniavni ethnl musl lpopd urbwdi pavg0090 gdpmf, r
regress rtot lgdph giniavni ethnannx musl lpopd urbwdi pavg0090, r
regress rtot lgdph giniavni ethnannx musl lpopd urbwdi pavg0090 ethnannf, r
```

Stata Do-File for Table 2.4, Model 4-7

```
correlate fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg0090
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi, r
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg0090, r
summarize fertwdi
```

```
summarize pavg0090
estsimp regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg0090, r
simqi, fd(ev) changex(pavg0090 -3.0848 2.2102)
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg0090 mysfx, r
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg0090 litfewdi, r
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg0090 airdist popcrgs latcapab, r
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg0090 afri lati east sout, r
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg0090 rtot, r
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg0090 gdphf giniavnf ethnlf, r
rreg fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg0090
qreg fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg0090
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg0090 if ctry ~= "Oman" & ctry ~= "Thailand",
r
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg7090, r
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi free7290, r
regress fertwdi lgdpmx giniavni ethnl musl lpopd urbwdi pavg0090, r
regress fertwdi lgdpmx giniavni ethnl musl lpopd urbwdi pavg0090 gdpmf, r
regress fertwdi lgdph giniavni ethnannx musl lpopd urbwdi pavg0090, r
regress fertwdi lgdph giniavni ethnannx musl lpopd urbwdi pavg0090 ethnannf, r
```

Stata Do-File for Table 2.4, Model 4-8

```
correlate fertwdi lgdph giniavni ethnl musl fertwdi lpopd urbwdi rtot
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi, r
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi rtot, r
summarize fertwdi
summarize rtot
estsimp regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi rtot, r
simqi, fd(ev) changex(rtot 53.85 79.12719)

regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi rtot mysfx, r
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi rtot litfewdi, r
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi rtot airdist popcrgs latcapab, r
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi rtot afri lati east sout, r
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi rtot gdphf giniavnf ethnlf, r
rreg fertwdi lgdph giniavni ethnl musl lpopd urbwdi rtot
qreg fertwdi lgdph giniavni ethnl musl lpopd urbwdi rtot
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi rtot if ctry ~= "Oman" & ctry ~= "Myananar", r
regress fertwdi lgdpmx giniavni ethnl musl lpopd urbwdi rtot, r
regress fertwdi lgdpmx giniavni ethnl musl lpopd urbwdi rtot gdpmf, r
regress fertwdi lgdph giniavni ethnannx musl lpopd urbwdi rtot, r
regress fertwdi lgdph giniavni ethnannx musl lpopd urbwdi rtot ethnannf, r
```

Stata Do-File for Table 2.4, Model 4-9

```
correlate watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090
regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r
regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090, r
summarize watecom
summarize pavg0090
estsimp regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090, r
setx mean
```

```
simqi, fd(ev) changex(pavg0090 -3.0848 2.2102)

regress watecom lgdph giniavni ethnl musl lpopd urbwdi pavg0090, r
regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 mysfx, r
regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 litfewdi, r
regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 airdist popcrgs latcapab, r
regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 afri lati east sout, r
regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 gdphf giniavnf ethnlf, r
rreg watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090
qreg watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090
regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 if ctry ~= "Afghanistan" & ctry
~= "Somalia", r
regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg7090, r
regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi free7290, r
regress watecom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg0090, r
regress watecom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 gdpmf, r
regress watecom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg0090, r
regress watecom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg0090 ethnannf, r
```

Stata Do-File for Table 2.4, Model 4-10

```
correlate limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090, r
summarize imrcom
summarize limrcom
summarize pavg0090
estsimp regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090, r
setx mean
simqi, tfunc(exp) fd(ev) changex(pavg0090 -3.0848 2.210236)

regress limrcom lgdph giniavni ethnl musl lpopd urbwdi pavg0090, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 mysfx, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 litfewdi, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 airdist popcrgs latcapab, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 afri lati east sout, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 gdphf giniavnf ethnlf, r
rreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090
qreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 if ctry ~= "Mongolia" & ctry
~= "Cuba", r
regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg7090, r
regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi free7290, r
regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg0090, r
regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 gdpmf, r
regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg0090, r
regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg0090 ethnannf, r
```

Stata Do-Files for Table 2.5

Stata Do-File for Table 2.5, Model 5-1

```
correlate hlxpuwdi lgdph giniavni age65 lpopd urbwdi pavg8090
```

```
regress hlxpuwdi lgdph giniavni lpopd urbwdi age65, r
regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg8090, r
regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg8090 mysfx, r
regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg8090 litfewdi, r
regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg8090 airdist popcrgs latcapab, r
regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg8090 afri lati east sout, r
regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg8090 gdphf, r
rreg hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg8090
qreg hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg8090
regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg8090 if ctry ~= "Mongolia" & ctry ~= "Cuba", r
regress hlxpuwdi lgdph giniavni giniavni ethnl musl fertwdi lpopd urbwdi pol90, r
regress hlxpuwdi lgdph giniavni giniavni ethnl musl fertwdi lpopd urbwdi free8090, r
regress hlxpuwdi lgdph giniavni giniavni ethnl musl fertwdi lpopd urbwdi free90, r
regress hlxpuwdi lgdpmx giniavni lpopd urbwdi age65 pavg8090, r
regress hlxpuwdi lgdpmx giniavni lpopd urbwdi age65 pavg8090 gdpmf, r
regress delivcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg0090 ethnannf, r
```

Stata Do-File for Table 2.5, Model 5-2

```
correlate delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090, r
regress delivcom lgdph giniavni ethnl musl lpopd urbwdi pavg8090, r
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 mysfx, r
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 litfewdi, r
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 airdist popcrgs latcapab, r
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 afri lati east sout, r
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 gdphf giniavnf ethnlf, r
rreg delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090
qreg delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 if ctry ~= "Oman" & ctry ~=
"Myanmar", r
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pol90, r
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pol90 if ctry ~= "Oman" & ctry ~=
"Bangladesh", r
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi free8090, r
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi free8090 if ctry ~= "Oman" & ctry ~=
"Myanmar", r
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi free90, r
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi free90 if ctry ~= "Oman" & ctry ~=
"Myanmar", r
regress delivcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg8090, r
regress delivcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 gdpmf, r
regress delivcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg8090, r
regress delivcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg8090 ethnannf, r
```

Stata Do-File for Table 2.5, Model 5-3

```
regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 if ctry ~= "Oman" & ctry ~=
"Myanmar", r
```

Stata Do-File for Table 2.5, Model 5-4

```
correlate mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090
regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r
regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090, r
regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090, r
regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 airdist popcrgs latcapab, r
regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 afri lati east sout, r
regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 gdphf giniavnf ethnlf, r
rreg mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090
qreg mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090
regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 if ctry ~= "Singapore" & ctry ~=
"Swaziland", r
regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pol90, r
regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi free8090, r
regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi free90, r
regress mysfx lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg8090, r
regress mysfx lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 gdpmf, r
regress mysfx lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg8090, r
regress mysfx lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg8090 ethnannf, r
```

Stata Do-File for Table 2.5, Model 5-5

```
correlate mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg8090
regress mysfx lgdph giniavni ethnl musl lpopd urbwdi, r
regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg8090, r
summarize mysfx
summarize pavg8090
estsimp regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg8090, r
setx mean
simqi, fd(ev) changex(pavg8090 -3.05551 3.065096)

regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg8090 if ctry ~= "Singapore" & ctry ~=
"Oman", r
regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg8090 airdist popcrgs latcapab, r
regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg8090 afri lati east sout, r
regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg8090 gdphf giniavnf ethnlf, r
rreg mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg8090
qreg mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg8090
regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg8090 if ctry ~= "Singapore" & ctry ~=
"Swaziland", r
regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg7090, r
regress mysfx lgdph giniavni ethnl musl lpopd urbwdi free7290, r
regress mysfx lgdpmx giniavni ethnl musl lpopd urbwdi pavg8090, r
regress mysfx lgdpmx giniavni ethnl musl lpopd urbwdi pavg8090 gdpmf, r
regress mysfx lgdph giniavni ethnannx musl lpopd urbwdi pavg8090, r
regress mysfx lgdph giniavni ethnannx musl lpopd urbwdi pavg8090 ethnannf, r
```

Stata Do-File for Table 2.5, Model 5-6

```
correlate rtot lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090
regress rtot lgdph giniavni ethnl musl lpopd urbwdi, r
regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg8090, r
```

```
summarize rtot
summarize pavg8090
estsimp regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg8090, r
setx mean
simqi, fd(ev) changex(pavg8090 -3.05551 3.065096)

regress rtot lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090, r
regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg8090 mysfx, r
regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg8090 litfewdi, r
regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg8090 airdist popcrgs latcapab, r
regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg8090 afri lati east sout, r
regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg8090 gdphf giniavnf ethnlf, r
rreg rtot lgdph giniavni ethnl musl lpopd urbwdi pavg8090
qreg rtot lgdph giniavni ethnl musl lpopd urbwdi pavg8090
regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg8090 if ctry ~= "Kuwait" & ctry ~= "Namibia", r
regress rtot lgdph giniavni ethnl musl lpopd urbwdi pol90, r
regress rtot lgdph giniavni ethnl musl lpopd urbwdi free8090, r
regress rtot lgdph giniavni ethnl musl lpopd urbwdi free90, r
regress rtot lgdpmx giniavni ethnl musl lpopd urbwdi pavg8090, r
regress rtot lgdpmx giniavni ethnl musl lpopd urbwdi pavg8090 gdpmf, r
regress rtot lgdph giniavni ethnannx musl lpopd urbwdi pavg8090, r
regress rtot lgdph giniavni ethnannx musl lpopd urbwdi pavg8090 ethnannf, r
```

Stata Do-File for Table 2.5, Model 5-7

```
correlate fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg8090
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi, r
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg8090, r
summarize fertwdi
summarize pavg8090
estsimp regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg8090, r
setx mean
simqi, fd(ev) changex(pavg8090 -3.05551 3.065096)
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg8090 rtot, r
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg8090 mysfx, r
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg8090 litfewdi, r
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg8090 airdist popcrgs latcapab, r
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg8090 afri lati east sout, r
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg8090 gdphf giniavnf ethnlf, r
rreg fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg8090
qreg fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg8090
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg8090 if ctry ~= "Oman" & ctry ~= "Rwanda",
r
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pol90, r
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi free8090, r
regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi free90, r
regress fertwdi lgdpmx giniavni ethnl musl lpopd urbwdi pavg8090, r
regress fertwdi lgdpmx giniavni ethnl musl lpopd urbwdi pavg8090 gdpmf, r
regress fertwdi lgdph giniavni ethnannx musl lpopd urbwdi pavg8090, r
regress fertwdi lgdph giniavni ethnannx musl lpopd urbwdi pavg8090 ethnannf, r
```

Stata Do-File for Table 2.5, Model 5-8

Identical to Model 4-8

Stata Do-File for Table 2.5, Model 5-9

```
correlate watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090
regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r
regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090, r
summarize watecom
summarize pavg8090
estsimp regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090, r
setx mean
simqi, fd(ev) changex(pavg8090 -3.05551 3.065096)
regress watecom lgdph giniavni ethnl musl lpopd urbwdi pavg8090, r
regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 mysfx, r
regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 litfewdi, r
regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 airdist popcrgs latcapab, r
regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 afri lati east sout, r
regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 gdphf giniavnf ethnlf, r
rreg watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090
qreg watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090
regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 if ctry ~= "Afghanistan" & ctry
~= "Somalia", r
regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pol90, r
regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi free8090, r
regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi free90, r
regress watecom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg8090, r
regress watecom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 gdpmf, r
regress watecom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg8090, r
regress watecom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg8090 ethnannf, r
```

Stata Do-File for Table 2.5, Model 5-10

```
correlate limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090, r
regress limrcom lgdph giniavni ethnl musl lpopd urbwdi pavg8090, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 mysfx, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 litfewdi, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 airdist popcrgs latcapab, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 afri lati east sout, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 gdphf giniavnf ethnlf, r
rreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090
qreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 if ctry ~= "Mongolia" & ctry
~= "Cuba", r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pol90, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi free8090, r
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi free90, r
regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg8090, r
regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 gdpmf, r
regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg8090, r
regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg8090 ethnannf, r
```

Table 2.2: Economy, Culture, Demography, Social Svc Utilization, Inf. Mortality

Table 2.2, Models 2-1 to 2-3: Correlations among variables

. correlate limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi (obs=105)

	limrcom	lgdph	giniavni	ethnl	musl	fertwdi	lpopd	urbwdi
limrcom	1.0000							
lgdph	-0.8377	1.0000						
giniavni	0.1712	-0.0275	1.0000					
ethnl	0.5050	-0.4711	0.2512	1.0000				
musl	-0.0382	0.2810	-0.2888	-0.2869	1.0000			
fertwdi	0.7827	-0.6581	0.1486	0.4352	0.1280	1.0000		
lpopd	-0.4304	0.2105	-0.3196	-0.1984	-0.1269	-0.4301	1.0000	
urbwdi	-0.7438	0.8313	-0.0237	-0.4315	0.2495	-0.6012	0.1290	1.0000

Table 2.2, Model 2-1: Wealthier is Healthier, Narrow (GDP/cap and IMR)

```
. regress limrcom lgdph, r

Linear regression                                      Number of obs =     105
                                                       F(  1,   103) =  240.32
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7017
                                                       Root MSE      =   .4432

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.7419919   .0478635   -15.50   0.000    -.8369179   -.6470658
       _cons |   9.615603   .3498856    27.48   0.000     8.921688    10.30952
------------------------------------------------------------------------------
```

Table 2.2, Model 2-2: Wealthier is Healthier, Intermediate (GDP/cap, Gini and IMR)

```
. regress limrcom lgdph giniavni, r

Linear regression                                      Number of obs =     105
                                                       F(  2,   102) =  125.73
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7236
                                                       Root MSE      =  .42866

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.7383802   .0465675   -15.86   0.000    -.8307467   -.6460137
    giniavni |   .0134117   .0057105     2.35   0.021     .0020849    .0247386
       _cons |   8.996011   .4023595    22.36   0.000     8.197933     9.79409
------------------------------------------------------------------------------
```

Table 2.2, Model 2-3: Wealthier is Healthier, Broad (7 Baseline Variables and IMR)

(GDP/cap, Gini, Ethnic Fragm, 90%+ Musl, Fert, Pop Density, Urbaniz)

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r

Linear regression                                       Number of obs =     105
                                                        F(  7,    97) =  115.48
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8460
                                                        Root MSE      =  .32809

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5106892   .0728516    -7.01   0.000    -.6552793    -.366099
    giniavni |   .0098456   .0057971     1.70   0.093      -.00166    .0213512
       ethnl |   .2291501   .1208339     1.90   0.061    -.0106718     .468972
        musl |   .3573075   .1090143     3.28   0.001     .1409443    .5736707
     fertwdi |   .0883452   .0306893     2.88   0.005     .0274354    .1492551
       lpopd |  -.0713372   .0317142    -2.25   0.027    -.1342811   -.0083933
      urbwdi |  -.0046217   .0022445    -2.06   0.042    -.0090765   -.0001669
       _cons |   7.311515   .6431156    11.37   0.000     6.035109    8.587922
------------------------------------------------------------------------------
```

Table 2.2, Model 2-3: Means and SDs of the 7 Baseline Variables, Infant Mortality

```
. summarize imrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
      imrcom |       105    70.13333    45.54712          6        202

. summarize limrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     limrcom |       105    3.985123     .807504   1.791759   5.308268

. summarize gdph

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        gdph |       105    3060.371    3386.423        367      16753

. summarize lgdph

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       lgdph |       105    7.588332      .91161   5.905362   9.726333

. summarize giniavni

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    giniavni |       105    44.15429    8.926452         22       70.7

. summarize musl

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        musl |       105    .1904762    .3945601          0          1

. summarize ethnl
```

```
    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       ethnl |       105    .3922857    .3139643          0        .89

. summarize fertwdi

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     fertwdi |       105    4.795238    1.674089        1.3        7.6

. summarize popd

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        popd |       105    192.1905    742.0837          1       5762

. summarize lpopd

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       lpopd |       105      3.7139    1.558825          0   8.659039

. summarize urbwdi

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
      urbwdi |       105        24.31472        5.2        100
```

Table 2.2, Model 2-3; Table 2.6: Magnitude of Associations: CLARIFY

```
. estsimp regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r

Linear regression                               Number of obs =     105
                                                F(  7,    97) =  115.48
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8460
                                                Root MSE      =  .32809

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5106892   .0728516    -7.01   0.000    -.6552793    -.366099
    giniavni |   .0098456   .0057971     1.70   0.093      -.00166    .0213512
       ethnl |   .2291501   .1208339     1.90   0.061    -.0106718     .468972
        musl |   .3573075   .1090143     3.28   0.001     .1409443    .5736707
     fertwdi |   .0883452   .0306893     2.88   0.005     .0274354    .1492551
       lpopd |  -.0713372   .0317142    -2.25   0.027    -.1342811   -.0083933
      urbwdi |  -.0046217   .0022445    -2.06   0.042    -.0090765   -.0001669
       _cons |   7.311515   .6431156    11.37   0.000     6.035109    8.587922
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....

Note: Clarify is expanding your dataset from 105 observations to 1000
observations in order to accommodate the simulations.  This will append
missing values to the bottom of your original dataset.

% of simulations completed: 12% 25% 37% 50% 62% 75% 87% 100%


Simulating sigma-squared.  Please wait
```

```
Number of simulations  : 1000
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9

. setx mean
```

Table 2.2, Model 2-3: Fall in IMR Resulting from 1 SD rise in GDP/cap (ln)

```
. summarize lgdph

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       lgdph |       105    7.588332      .91161   5.905362   9.726333


. display 7.588332+0.91161
8.499942

. simqi, tfunc(exp) fd(ev) changex(lgdph 7.588332 8.499942)

First Difference: lgdph 7.588332 8.499942

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+-----------------------------------------------
          dE[exp(limrcom)] |   -21.0478     2.577059    -25.88334   -15.93727
```

Table 2.2, Model 2-3: How much of a rise in GDP/cap would reduce IMR from 54 to 49?

```
. simqi, tfunc(exp) fd(ev) changex(lgdph 7.588332 7.76885)

First Difference: lgdph 7.588332 7.76885

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+-----------------------------------------------
          dE[exp(limrcom)] |  -5.003395     1.112023    -7.324123   -2.797171

. display exp(7.588332)
1975.0164

. display exp(7.76885)
2365.7491

. display 2365.7491-1975.0164
390.7327
```

Table 2.2, Model 2-3: Fall in IMR Resulting from 1 SD fall in Gini

```
summarize giniavni

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    giniavni |       105    44.15429    8.926452         22       70.7


. display 44.15429-8.926452
35.227838
```

```
. simqi, tfunc(exp) fd(ev) changex(giniavni 44.15429 35.227838)

First Difference: giniavni 44.15429 35.227838

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
          dE[exp(limrcom)] |  -4.764941     2.781271    -10.04159    .9394093
```

Table 2.2, Model 2-3: How much of a drop in the Gini would reduce IMR from 54 to 49?

```
. simqi, tfunc(exp) fd(ev) changex(giniavni 44.15429 34.715)

First Difference: giniavni 44.15429 34.715

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
          dE[exp(limrcom)] |  -4.999074      2.93355    -10.44361     1.15461


. display 44.15429-34.715
9.43929
```

Table 2.2, Model 2-3: Fall in IMR Resulting from 1 SD fall in Ethnic Fragmentation

```
. simqi, tfunc(exp) fd(ev) changex(ethnl .3922857 .0783214)

First Difference: ethnl 0.3922857 0.0783214

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
          dE[exp(limrcom)] |   -3.99712     2.167426    -8.142092    .5382385
```

Table 2.2, Model 2-3: Rise in IMR Resulting from 1 SD rise in 90+% Muslim?

```
. simqi, tfunc(exp) fd(ev) changex(musl .1904762 0.5850363)

First Difference: musl .1904762 0.5850363

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
          dE[exp(limrcom)] |   8.615586     2.939833     3.119864    14.21146
```

Table 2.2, Model 2-3: Rise in IMR Resulting from Change in 90+% Muslim from 0 to 1

```
. simqi, tfunc(exp) fd(ev) changex(musl 0 1)

First Difference: musl 0 1

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
          dE[exp(limrcom)] |   23.04241      7.81983      8.93091     39.0777
```

Table 2.2, Model 2-3: Fall in IMR Resulting from 1 SD Decline in Fertility

```
. simqi, tfunc(exp) fd(ev) changex(fertwdi 4.795238 6.469327)

First Difference: fertwdi 4.795238 3.121149

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
          dE[exp(limrcom)] |  -7.815935     2.611168    -12.63877   -2.419701
```

Table 2.2, Model 2-3: Fall in IMR Resulting from 1 SD rise in Population Density (ln)

```
. simqi, tfunc(exp) fd(ev) changex(lpopd 5.258487068 6.839769971)

First Difference: lpopd 5.258487068 6.839769971

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
          dE[exp(limrcom)] |  -5.298623     2.233874    -9.339048   -.5853043
```

Table 2.2, Model 2-3: Fall in IMR Resulting from 1 SD rise in Urbanization

```
. simqi, tfunc(exp) fd(ev) changex(urbwdi 43.81238 49.01238)

First Difference: urbwdi 43.81238 49.01238

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
          dE[exp(limrcom)] |  -1.290976     1.082965    -3.286854    .9146996
```

Table 2.2, Model 2-3: Robustness Checks

Model 2-3: Robust Check 1.1: Change specification: Exclude fertility

```
. regress limrcom lgdph giniavni ethnl musl lpopd urbwdi, r

Linear regression                                      Number of obs =     105
                                                       F(  6,    98) =  132.92
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8344
                                                       Root MSE      =  .33854

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5888096   .0653196    -9.01   0.000    -.7184342    -.459185
    giniavni |   .0122124   .0060355     2.02   0.046     .0002352    .0241896
       ethnl |   .3041219   .1261462     2.41   0.018     .0537889    .5544549
        musl |   .4988495   .1024674     4.87   0.000     .2955063    .7021926
       lpopd |  -.0882054   .0305882    -2.88   0.005    -.1489067   -.0275042
      urbwdi |  -.0058387   .0023602    -2.47   0.015    -.0105224    -.001155
       _cons |   8.283047   .5246576    15.79   0.000     7.241881    9.324213
------------------------------------------------------------------------------
```

Model 2-3: Robust Check 1.2: Change specification: Include female school

(Same as Model 2-7)

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mysfx, r

Linear regression                                       Number of obs =     105
                                                        F(  8,    96) =  104.97
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8645
                                                        Root MSE      =  .30943

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4394319   .0730844    -6.01   0.000    -.5845032   -.2943605
    giniavni |   .0102644   .0056537     1.82   0.073     -.000958    .0214868
       ethnl |   .1452183   .1168031     1.24   0.217    -.0866341    .3770707
        musl |   .2080264   .1078493     1.93   0.057    -.0060528    .4221056
     fertwdi |   .0247426   .0322253     0.77   0.444    -.0392242    .0887094
       lpopd |   -.087717   .0329019    -2.67   0.009    -.1530267   -.0224074
      urbwdi |   -.003442   .0021556    -1.60   0.114    -.0077208    .0008367
       mysfx |  -.0988089   .0264245    -3.74   0.000     -.151261   -.0463568
       _cons |   7.487967   .6560812    11.41   0.000     6.185656    8.790278
------------------------------------------------------------------------------
```

Model 2-3: Robust Check 1.3: Change specification: Include female literacy

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi litfewdi, r

Linear regression                                       Number of obs =     105
                                                        F(  8,    96) =   93.98
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8591
                                                        Root MSE      =  .31554

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4711799   .0696191    -6.77   0.000    -.6093728    -.332987
    giniavni |   .0108956   .0058049     1.88   0.064     -.000627    .0224182
       ethnl |   .1222384   .1149715     1.06   0.290    -.1059782    .3504549
        musl |   .2193586   .1115385     1.97   0.052    -.0020435    .4407606
     fertwdi |   .0252703   .0347329     0.73   0.469     -.043674    .0942146
       lpopd |  -.0900247   .0326033    -2.76   0.007    -.1547418   -.0253075
      urbwdi |  -.0040371   .0022305    -1.81   0.073    -.0084646    .0003904
    litfewdi |  -.0065319   .0020506    -3.19   0.002    -.0106023   -.0024616
       _cons |   7.746576   .6527258    11.87   0.000     6.450925    9.042226
------------------------------------------------------------------------------
```

Model 2-3: Robust Check 1.4: Change specification: Include geographical variables

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi airdist popcrgs latcapab, r

Linear regression                                       Number of obs =     105
                                                        F( 10,    94) =   80.87
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8522
                                                        Root MSE      =  .32656

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
```

```
       lgdph |   -.493863   .0723868    -6.82   0.000    -.6375886   -.3501373
    giniavni |   .0108183     .00556     1.95   0.055    -.0002212    .0218578
       ethnl |   .2749203   .1135298     2.42   0.017     .0495042    .5003364
        musl |    .286786   .1188231     2.41   0.018     .0508601     .522712
     fertwdi |   .1002149    .035233     2.84   0.005     .0302589    .1701708
       lpopd |  -.0568937   .0300253    -1.89   0.061    -.1165096    .0027222
      urbwdi |  -.0046477   .0021975    -2.11   0.037    -.0090109   -.0002845
     airdist |  -7.05e-06   .0000172    -0.41   0.683    -.0000413    .0000272
     popcrgs |  -.0009792   .0011156    -0.88   0.382    -.0031943    .0012358
    latcapab |   .0058346    .003639     1.60   0.112    -.0013908      .01306
       _cons |    7.00672    .618905    11.32   0.000      5.77787     8.23557
------------------------------------------------------------------------------
```

Model 2-3: Robust Check 1.5: Change specification: Include regional dummies

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi afri lati east sout, r

Linear regression                                      Number of obs =     105
                                                       F( 11,    93) =   88.10
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8484
                                                       Root MSE      =   .3325

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5307049   .0762016    -6.96   0.000    -.6820261   -.3793836
    giniavni |   .0115434   .0061129     1.89   0.062    -.0005957    .0236824
       ethnl |   .2398531   .1393845     1.72   0.089    -.0369369    .5166431
        musl |   .2622594   .0947373     2.77   0.007     .0741299    .4503888
     fertwdi |   .0897381   .0378019     2.37   0.020     .0146709    .1648052
       lpopd |  -.0749201   .0341989    -2.19   0.031    -.1428323   -.0070078
      urbwdi |  -.0039518   .0025272    -1.56   0.121    -.0089703    .0010668
        afri |  -.1528785   .1002895    -1.52   0.131    -.3520335    .0462765
        lati |  -.1455781   .1415527    -1.03   0.306    -.4266738    .1355175
        east |  -.1198455   .1355701    -0.88   0.379    -.3890608    .1493698
        sout |   .0057449   .1965277     0.03   0.977      -.38452    .3960099
       _cons |   7.490279    .673755    11.12   0.000     6.152335    8.828223
------------------------------------------------------------------------------
```

Model 2-3: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi gdphf giniavnf ethnlf, r

Linear regression                                      Number of obs =     105
                                                       F(  9,    94) =       .
                                                       Prob > F      =       .
                                                       R-squared     =  0.8548
                                                       Root MSE      =  .32367

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4955763   .0700391    -7.08   0.000    -.6346406   -.3565119
    giniavni |   .0065436   .0058061     1.13   0.263    -.0049844    .0180717
       ethnl |   .1927542   .1222893     1.58   0.118    -.0500541    .4355625
        musl |   .3331112   .1090332     3.06   0.003     .1166231    .5495992
     fertwdi |   .1040912   .0301251     3.46   0.001     .0442771    .1639054
       lpopd |  -.0745437   .0301429    -2.47   0.015    -.1343932   -.0146942
      urbwdi |   -.003605   .0024137    -1.49   0.139    -.0083975    .0011874
```

```
       gdphf |  -.1875885   .1163486    -1.61   0.110    -.4186014    .0434243
    giniavnf |  -.0157501   .0775404    -0.20   0.839    -.1697085    .1382082
      ethnlf |  -.3448947   .1662328    -2.07   0.041    -.6749538   -.0148355
       _cons |   7.278772   .5798107    12.55   0.000     6.127544        8.43
------------------------------------------------------------------------------
```

Model 2-3: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi

   Huber iteration 1:  maximum difference in weights = .48968512
   Huber iteration 2:  maximum difference in weights = .05646583
   Huber iteration 3:  maximum difference in weights = .01913562
Biweight iteration 4:  maximum difference in weights = .15370421
Biweight iteration 5:  maximum difference in weights = .01401505
Biweight iteration 6:  maximum difference in weights = .00140891

Robust regression                                       Number of obs =     105
                                                        F(  7,    97) =   66.86
                                                        Prob > F      =  0.0000

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5059025   .0783524    -6.46   0.000    -.6614103   -.3503946
    giniavni |   .0109959   .0045832     2.40   0.018     .0018995    .0200924
       ethnl |   .2417565   .1339787     1.80   0.074    -.024154    .5076671
        musl |   .3699707   .1156301     3.20   0.002     .1404771    .5994644
     fertwdi |   .0909155   .0348563     2.61   0.011     .0217354    .1600957
       lpopd |  -.0571733   .0262152    -2.18   0.032    -.1092032   -.0051433
      urbwdi |  -.0050255   .0026105    -1.93   0.057    -.0102066    .0001556
       _cons |    7.16629   .6200343    11.56   0.000     5.935693    8.396886
------------------------------------------------------------------------------
```

Model 2-3: Robust Check 3.2: Outlier checks: Median regression

```
. qreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi
Iteration  1:  WLS sum of weighted deviations =   26.83732

Iteration  1: sum of abs. weighted deviations =  31.944673
Iteration  2: sum of abs. weighted deviations =  26.467935
Iteration  3: sum of abs. weighted deviations =  26.440758
Iteration  4: sum of abs. weighted deviations =  26.413745
Iteration  5: sum of abs. weighted deviations =  26.329048
Iteration  6: sum of abs. weighted deviations =  26.287753
Iteration  7: sum of abs. weighted deviations =  26.249377
Iteration  8: sum of abs. weighted deviations =  26.241739

Median regression                                   Number of obs =       105
  Raw sum of deviations 68.21916 (about 4.1271343)
  Min sum of deviations 26.24174                    Pseudo R2     =    0.6153

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4095141   .0780378    -5.25   0.000    -.5643976   -.2546307
    giniavni |   .0101286   .0047573     2.13   0.036     .0006866    .0195707
       ethnl |   .1414815   .1334232     1.06   0.292    -.1233265    .4062896
        musl |   .2817497   .1162184     2.42   0.017     .0510884     .512411
     fertwdi |   .1145593   .0344125     3.33   0.001     .0462601    .1828585
       lpopd |  -.0688711   .0266682    -2.58   0.011    -.1218002   -.0159421
      urbwdi |  -.0066575   .0026252    -2.54   0.013    -.0118678   -.0014472
```

```
       _cons |   6.554478     .61733    10.62   0.000     5.329249    7.779707
------------------------------------------------------------------------------
```

Model 2-3: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi if ctry ~= "Cuba" & ctry ~=
"Mongolia", r

Linear regression                                      Number of obs =     103
                                                       F(  7,    95) =  108.75
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8592
                                                       Root MSE      =  .30983

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5360614   .0663991    -8.07   0.000    -.6678804   -.4042425
    giniavni |   .0109225   .0050251     2.17   0.032     .0009464    .0208987
       ethnl |   .2573677   .1165811     2.21   0.030      .025925    .4888104
        musl |   .3949138   .0971102     4.07   0.000     .2021258    .5877019
     fertwdi |   .0833224   .0287309     2.90   0.005     .0262843    .1403604
       lpopd |  -.0507647   .0248644    -2.04   0.044    -.1001269   -.0014025
      urbwdi |  -.0040637   .0021072    -1.93   0.057     -.008247    .0001195
       _cons |   7.358917   .5230776    14.07   0.000     6.320477    8.397357
------------------------------------------------------------------------------
```

Model 2-3: Robust Check 4.1: Endog ck: Corr cand. inst (fertwdin) & hyp endg reg (fertwdi)

```
. correlate fertwdi fertwdin
(obs=105)

             |  fertwdi fertwdin
-------------+------------------
     fertwdi |   1.0000
    fertwdin |   0.6135   1.0000
```

Model 2-3: Robust Check 4.2: Endog.: Assoc. Betw. Cand. Inst. & Hypth. Endog. Rgrssr.

```
. ivreg limrcom lgdph giniavni ethnl musl (fertwdi = fertwdin) lpopd urbwdi , first

First-stage regressions
-----------------------

      Source |       SS       df       MS              Number of obs =     105
-------------+------------------------------           F(  7,    97) =   36.14
       Model |  210.682977     7  30.0975682           Prob > F      =  0.0000
    Residual |  80.7846455    97  .832831397           R-squared     =  0.7228
-------------+------------------------------           Adj R-squared =  0.7028
       Total |  291.467623   104   2.8025733           Root MSE      =   .9126

------------------------------------------------------------------------------
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5549833   .1987866    -2.79   0.006    -.9495196   -.1604469
    giniavni |   .0229528    .011698     1.96   0.053    -.0002645    .0461702
       ethnl |   .3813084   .3527228     1.08   0.282    -.3187487    1.081365
        musl |   1.012926   .2889069     3.51   0.001      .439526    1.586326
       lpopd |  -.2047622    .066019    -3.10   0.003    -.3357918   -.0737327
```

```
      urbwdi |  -.0187249    .006749    -2.77   0.007    -.0321197   -.0053301
    fertwdin |   .3281238    .066114     4.96   0.000     .1969059    .4593416
       _cons |   7.788379   1.423095     5.47   0.000      4.96393    10.61283
------------------------------------------------------------------------------
```

Model 2-3: Robust Check 4.3: Endog.: 2SLS Instrumenting for Hypoth. Endog. Regressor

```
Instrumental variables (2SLS) regression

      Source |       SS       df       MS              Number of obs =     105
-------------+------------------------------           F(  7,    97) =   75.26
       Model |  57.3701749     7  8.19573927           Prob > F      =  0.0000
    Residual |  10.4443442    97  .107673652           R-squared     =  0.8460
-------------+------------------------------           Adj R-squared =  0.8349
       Total |  67.8145191   104  .652062684           Root MSE      =  .32814

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
     fertwdi |   .0826706   .0724489     1.14   0.257    -.0611203    .2264616
       lgdph |   -.515707   .0929729    -5.55   0.000    -.7002325   -.3311815
    giniavni |   .0099976   .0046241     2.16   0.033     .0008202    .0191751
       ethnl |   .2339657   .1368163     1.71   0.090    -.0375767    .5055081
        musl |   .3663991   .1498064     2.45   0.016     .0690748    .6637233
       lpopd |  -.0724207   .0274562    -2.64   0.010    -.1269137   -.0179277
      urbwdi |  -.0046999   .0025993    -1.81   0.074    -.0098587     .000459
       _cons |   7.373919    .917908     8.03   0.000     5.552126    9.195712
------------------------------------------------------------------------------
Instrumented:  fertwdi
Instruments:   lgdph giniavni ethnl musl lpopd urbwdi fertwdin
------------------------------------------------------------------------------
```

Model 2-3: Robust Check 4.4: Endog.: Hausman Test for Diff Betw. OLS & 2SLS Coeff.

```
. estimates store ivfertwdin

. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi

      Source |       SS       df       MS              Number of obs =     105
-------------+------------------------------           F(  7,    97) =   76.14
       Model |  57.3734368     7  8.19620526           Prob > F      =  0.0000
    Residual |  10.4410823    97  .107640024           R-squared     =  0.8460
-------------+------------------------------           Adj R-squared =  0.8349
       Total |  67.8145191   104  .652062684           Root MSE      =  .32809

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5106892   .0732751    -6.97   0.000    -.6561199   -.3652584
    giniavni |   .0098456   .0042862     2.30   0.024     .0013386    .0183526
       ethnl |   .2291501   .1252967     1.83   0.070    -.0195291    .4778293
        musl |   .3573075   .1081371     3.30   0.001     .1426853    .5719297
     fertwdi |   .0883452   .0325976     2.71   0.008     .0236481    .1530424
       lpopd |  -.0713372   .0245164    -2.91   0.004    -.1199955   -.0226789
      urbwdi |  -.0046217   .0024413    -1.89   0.061     -.009467    .0002237
       _cons |   7.311515   .5798553    12.61   0.000     6.160663    8.462367
------------------------------------------------------------------------------

. hausman ivfertwdin, constant

Note: the rank of the differenced variance matrix (6) does not equal the number of coefficients
being tested (8); be sure this is what you expect, or there may be problems computing the test.
```

```
Examine the output of your estimators for anything unexpected and possibly consider scaling your
variables so that the coefficients are on a similar scale.

               ---- Coefficients ----
             |      (b)          (B)            (b-B)     sqrt(diag(V_b-V_B))
             |   ivfertwdin       .          Difference          S.E.
-------------+------------------------------------------------------------------
     fertwdi |    .0826706     .0883452       -.0056746        .0647011
       lgdph |    -.515707    -.5106892       -.0050178        .0572252
    giniavni |    .0099976     .0098456         .000152        .0017349
       ethnl |    .2339657     .2291501        .0048156        .0549494
        musl |    .3663991     .3573075        .0090916        .1036742
       lpopd |   -.0724207    -.0713372       -.0010835        .0123608
      urbwdi |   -.0046999    -.0046217       -.0000782        .0008923
       _cons |    7.373919     7.311515        .0624037        .7115637
------------------------------------------------------------------------------
                           b = consistent under Ho and Ha; obtained from ivreg
            B = inconsistent under Ha, efficient under Ho; obtained from regress

    Test:  Ho:  difference in coefficients not systematic

                  chi2(6) = (b-B)'[(V_b-V_B)^(-1)](b-B)
                          =        0.01
                Prob>chi2 =      1.0000
```

Model 2-3: Robust Check 5.1: DepV: IMR to U5MR (limrcom to lu5mrcom)

```
. regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r

Linear regression                                      Number of obs =     105
                                                       F(  7,    97) =  127.43
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8470
                                                       Root MSE      =  .37356

------------------------------------------------------------------------------
             |               Robust
    lu5mrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5368629   .0887422    -6.05   0.000    -.7129917   -.3607342
    giniavni |   .0079543   .0065034     1.22   0.224    -.0049532    .0208617
       ethnl |   .3110266   .1422352     2.19   0.031      .028729    .5933242
        musl |   .2944396   .1222671     2.41   0.018     .0517731     .537106
     fertwdi |    .130953   .0361069     3.63   0.000     .0592908    .2026153
       lpopd |  -.0776653   .0357261    -2.17   0.032    -.1485717   -.0067588
      urbwdi |  -.0049228   .0026147    -1.88   0.063    -.0101122    .0002667
       _cons |   7.723981    .771688    10.01   0.000     6.192394    9.255568
------------------------------------------------------------------------------
```

Model 2-3: Robust Check 5.2: DepV: Vary source: infant mortality (limrcom to limrwdi)

```
. regress limrwdi lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r

Linear regression                                      Number of obs =     105
                                                       F(  7,    97) =  119.24
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8626
                                                       Root MSE      =  .30776

------------------------------------------------------------------------------
             |               Robust
     limrwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
```

```
-------------+----------------------------------------------------------------
       lgdph |  -.5058556   .0682149    -7.42   0.000    -.6412433   -.3704678
    giniavni |   .0112409   .0052224     2.15   0.034      .000876    .0216059
       ethnl |   .1706326   .1091786     1.56   0.121    -.0460567     .387322
        musl |   .2904627   .1026838     2.83   0.006     .0866637    .4942617
     fertwdi |   .1093336   .0296951     3.68   0.000      .050397    .1682703
       lpopd |  -.0486494   .0244377    -1.99   0.049    -.0971515   -.0001474
      urbwdi |  -.0045243   .0022419    -2.02   0.046    -.0089738   -.0000749
       _cons |   7.071855   .5887277    12.01   0.000     5.903393    8.240316
------------------------------------------------------------------------------
```

Model 2-3: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)

```
. regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi, r

Linear regression                                      Number of obs =     104
                                                       F(  7,    96) =  107.58
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8533
                                                       Root MSE      =  .32169

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |     -.5143   .0733762    -7.01   0.000    -.6599506   -.3686493
    giniavni |   .0102356   .0047567     2.15   0.034     .0007937    .0196776
       ethnl |   .2136929   .1160557     1.84   0.069    -.0166758    .4440616
        musl |   .2719265   .1046613     2.60   0.011     .0641756    .4796775
     fertwdi |   .0722882   .0338289     2.14   0.035     .0051383    .1394381
       lpopd |  -.0799197   .0251831    -3.17   0.002    -.1299079   -.0299316
      urbwdi |  -.0058811   .0020714    -2.84   0.006    -.0099927   -.0017694
       _cons |   7.527842   .6399151    11.76   0.000      6.25762    8.798063
------------------------------------------------------------------------------
```

Model 2-3: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

```
. regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi gdpmf, r

Linear regression                                      Number of obs =     104
                                                       F(  8,    95) =   96.07
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8534
                                                       Root MSE      =  .32328

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |  -.5117233   .0748456    -6.84   0.000    -.6603107   -.3631359
    giniavni |   .0100979   .0048905     2.06   0.042      .000389    .0198068
       ethnl |   .2189028   .1176576     1.86   0.066    -.0146771    .4524828
        musl |   .2706425   .1054216     2.57   0.012     .0613542    .4799307
     fertwdi |   .0709109   .0348863     2.03   0.045     .0016529    .1401689
       lpopd |  -.0810036   .0262143    -3.09   0.003    -.1330457   -.0289616
      urbwdi |  -.0059693   .0021226    -2.81   0.006    -.0101833   -.0017554
       gdpmf |  -.0412949   .1292917    -0.32   0.750    -.2979713    .2153815
       _cons |   7.528601   .6450238    11.67   0.000     6.248067    8.809135
------------------------------------------------------------------------------
```

Model 2-3: Robust Check 7.3: Vary data source: Ctrl Var: ethnic frag. (ethnl to ethnannx)

```
. regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi, r

Linear regression                                       Number of obs =     105
                                                        F(  7,    97) =  122.10
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8455
                                                        Root MSE      =  .32861

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4935497   .0780256    -6.33   0.000    -.6484089   -.3386905
    giniavni |   .0105083   .0057139     1.84   0.069    -.0008321    .0218488
    ethnannx |   .2617549   .1535352     1.70   0.091      -.04297    .5664798
        musl |   .3508572   .1097952     3.20   0.002      .132944    .5687703
     fertwdi |   .0965222   .0314267     3.07   0.003      .034149    .1588954
       lpopd |  -.0661552   .0314383    -2.10   0.038    -.1285516   -.0037588
      urbwdi |  -.0052579   .0023459    -2.24   0.027    -.0099139   -.0006019
       _cons |   7.064875   .6998943    10.09   0.000     5.675779    8.453972
------------------------------------------------------------------------------
```

Model 2-3: Robust Check 7.4: Vary data srce: Ctrl Var: ethnl to ethnannx, msng data flags

```
. regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi ethnannf, r

Linear regression                                       Number of obs =     105
                                                        F(  8,    96) =  102.98
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8464
                                                        Root MSE      =  .32937

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5131973   .0865608    -5.93   0.000    -.6850192   -.3413754
    giniavni |   .0096883   .0058025     1.67   0.098    -.0018295    .0212061
    ethnannx |   .2507271   .1553341     1.61   0.110    -.0576088    .5590629
        musl |   .3517562   .1104932     3.18   0.002     .1324289    .5710834
     fertwdi |   .0929245   .0315198     2.95   0.004     .0303583    .1554907
       lpopd |  -.0667921   .0312814    -2.14   0.035    -.1288852   -.0046989
      urbwdi |  -.0046559    .002556    -1.82   0.072    -.0097295    .0004177
    ethnannf |  -.1022258   .1645227    -0.62   0.536    -.4288008    .2243492
       _cons |   7.257265   .7687531     9.44   0.000     5.731302    8.783228
------------------------------------------------------------------------------
```

Table 2.2, Models 2-4 to 2-10: Utilization of Basic Social Services and Infant Mortality

Table 2.2, Models 2-4 to 2-10: Correlations among the social service variables

```
. correlate limrcom delivcom dtp3con mcvcon mysfx rtot watecom sanicom (obs=85)

             | limrcom delivcom  dtp3con   mcvcon    mysfx     rtot  watecom  sanicom
-------------+------------------------------------------------------------------
     limrcom |  1.0000
    delivcom | -0.8041   1.0000
     dtp3con | -0.5945   0.6519   1.0000
      mcvcon | -0.5489   0.6069   0.8965   1.0000
```

```
      mysfx |  -0.7966   0.7348   0.4901   0.4744   1.0000
       rtot |  -0.3303   0.1834   0.3159   0.3100   0.3877   1.0000
    watecom |  -0.7775   0.7218   0.6727   0.6072   0.6573   0.3577   1.0000
    sanicom |  -0.8410   0.7857   0.6499   0.5794   0.7057   0.1961   0.8101   1.0000
```

Table 2.2, Models 2-4 to 2-10: All social service variables included in the same model

```
. regress limrcom lgdph giniavni ethnl musl lpopd fertwdi urbwdi delivcom dtp3con mcvcon mysfx rtot
watecom sanicom, r

Linear regression                                      Number of obs =      85
                                                       F( 14,    70) =   43.72
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.9023
                                                       Root MSE      =  .26264

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4118592   .0738907    -5.57   0.000    -.5592294   -.2644889
    giniavni |   .0152414   .0052222     2.92   0.005      .004826    .0256568
       ethnl |   .2482795   .1149751     2.16   0.034      .018969    .4775901
        musl |   .3169435   .1203648     2.63   0.010     .0768836    .5570035
       lpopd |  -.0385296   .0309511    -1.24   0.217    -.1002596    .0232004
     fertwdi |  -.0438262   .0388067    -1.13   0.263    -.1212238    .0335714
      urbwdi |  -.0041874   .0026685    -1.57   0.121    -.0095095    .0011347
    delivcom |  -.0060984   .0017399    -3.51   0.001    -.0095686   -.0026283
     dtp3con |  -.0038341   .0032584    -1.18   0.243    -.0103328    .0026647
      mcvcon |   .0023283    .003331     0.70   0.487    -.0043151    .0089718
       mysfx |  -.0538894   .0253714    -2.12   0.037     -.104491   -.0032878
        rtot |  -.0039877    .001393    -2.86   0.006    -.0067659   -.0012094
     watecom |   .0044901   .0027164     1.65   0.103    -.0009275    .0099077
     sanicom |   -.004009   .0020666    -1.94   0.056    -.0081306    .0001127
       _cons |   7.580976   .6759983    11.21   0.000     6.232739    8.929212
------------------------------------------------------------------------------
```

Table 2.2, Models 2-4 to 2-10: Social service utilization and infant mortality

Table 2.2: Summary: Robustness checks for Models 2-4 to 2-10 (service utiliz. & IMR)

This table gives the t-score of the association between the utilization of basic social services (trained attendance at birth in Model 2-4, child immunization in Models 2-5 and 2-6), female schooling in Model 2-7, family planning in Model 2-8, improved water source in Model 2-9, improved sanitation in Model 2-10) in the context of 16 checks for robustness. The statistical output follows the table. In each check for robustness the 7 socioeconomic "baseline"variables (Model 2-3) are controlled for, as is also the case for Models 2-4 to 2-10 in Table 2.2.

	Model 2-4	Model 2-5	Model 2-6	Model 2-7	Model 2-8	Model 2-9	Model 2-10
Dependent variable	delivcom	dtp3con	mcvcon	mysfx	rtot*	watecom	sanicom
Basic Model	-3.92	-3.75	-2.57	-3.74	-2.49	-1.78	-3.68
1.1. Specif: Excl fertility	-4.66	-4.17	-3.00	-4.70	-1.09	-2.84	-4.27
1.2. Specif: Incl fem sch	-3.19	-3.24	-3.28		-1.17	-2.05	-2.97
1.3. Specif: Incl fem lit	-3.10	-2.24	-2:09	-3.19	-1.59	-1.74	-2.76
1.4. Specif: Incl geogr	-3.83	-3.85	-3.09	-4.10	-2.25	-1.50	-3.39
1.5. Specif: Incl reg dum	-4.24	-3.72	-2.67	-3.69	-2.61	-1.74	-3.51

2.1. Imput: msg data flags	-3.30	-3.11	-1.98	-3.71	-2.56	-1.52	-3.09
3.1. Outliers: rreg	-4.15	-3.10	-2.36	-3.83	-2.06	-1.20	-3.36
3.2. Outliers: qreg	-2.39	-1.81	-2.17	-2.79	-1.16	-0.70	-2.52
3.3. Outliers: cooksd	-4.58	-4.19	-3.13	-4.40	-2.71	-1.60	-3.71
4.4. Endog: 2SLS	-3.13	-2.75	-2.07	-2.79		-1.52	-3.20
5.1. DV lu5mr	-3.93	-3.38	-2.23	-3.87	-2.78	-1.90	-3.31
5.2. DV limrwdi	-4.58	-3.58	-2.78	-3.38	-2.22	-1.39	-3.72
7.1. IV lgdpmx	-5.01	-2.88	-2.02	-3.72	-1.44	-1.15	-3.07
7.2. IV lgdpmx, mdf	-4.96	-2.84	-2.01	-3.69	-1.43	-1.16	-3.06
7.3. IV ethnannx	-3.88	-3.49	-2.30	-3.97	-2.41	-1.72	-3.49
7.4. IV ethnannx, mdf	-3.58	-3.47	-2.33	-3.83	-2.29	-1.81	-3.44
Basic model clarify	-9.99	-6.25	-4.54	-10.97	-4.85	-4.28	-10.45

Table 2.2, Model 2-4: Trained Attendance at Birth and Infant Mortality

Model 2-4: Bivariate correlations among independent variables

```
. correlate lgdph giniavni ethnl musl fertwdi lpopd urbwdi delivcom
(obs=103)
```

	lgdph	giniavni	ethnl	musl	fertwdi	lpopd	urbwdi	delivcom
lgdph	1.0000							
giniavni	-0.0087	1.0000						
ethnl	-0.4740	0.2447	1.0000					
musl	0.2922	-0.2972	-0.2867	1.0000				
fertwdi	-0.6565	0.1217	0.4296	0.1280	1.0000			
lpopd	0.1954	-0.2995	-0.1865	-0.1271	-0.4055	1.0000		
urbwdi	0.8283	0.0029	-0.4392	0.2681	-0.5968	0.1051	1.0000	
delivcom	0.7031	-0.0423	-0.3721	0.0313	-0.6992	0.1330	0.7087	1.0000

Model 2-4: Infant mortality predicted by 7 baseline variables only (same as Model 2-3)

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r

Linear regression                               Number of obs =     105
                                                F(  7,    97) =  115.48
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8460
                                                Root MSE      =  .32809

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5106892   .0728516    -7.01   0.000    -.6552793    -.366099
    giniavni |   .0098456   .0057971     1.70   0.093      -.00166    .0213512
       ethnl |   .2291501   .1208339     1.90   0.061    -.0106718     .468972
        musl |   .3573075   .1090143     3.28   0.001     .1409443    .5736707
     fertwdi |   .0883452   .0306893     2.88   0.005     .0274354    .1492551
       lpopd |  -.0713372   .0317142    -2.25   0.027    -.1342811   -.0083933
      urbwdi |  -.0046217   .0022445    -2.06   0.042    -.0090765   -.0001669
       _cons |   7.311515   .6431156    11.37   0.000     6.035109    8.587922
------------------------------------------------------------------------------
```

Model 2-4: Infant Mortality predicted by 7 baseline var. and trained attendance at birth

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi delivcom, r

Linear regression                                       Number of obs =     103
                                                        F(  8,    94) =   90.72
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8607
                                                        Root MSE      =  .31022

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   -.453796   .0684336    -6.63   0.000    -.5896725   -.3179196
    giniavni |   .0077974   .0057938     1.35   0.182    -.0037064    .0193012
       ethnl |   .2429785   .1107555     2.19   0.031     .0230708    .4628861
        musl |   .2846971    .110476     2.58   0.012     .0653443    .5040499
     fertwdi |   .0489119    .029416     1.66   0.100    -.0094942     .107318
       lpopd |  -.0889166   .0330208    -2.69   0.008    -.1544803    -.023353
      urbwdi |  -.0016754   .0021983    -0.76   0.448    -.0060402    .0026895
    delivcom |  -.0069125    .001763    -3.92   0.000     -.010413    -.003412
       _cons |   7.521111   .6256743    12.02   0.000      6.27882    8.763402
------------------------------------------------------------------------------
```

Model 2-4: Means and SDs of trained attendance at birth and infant mortality

```
. summarize imrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
      imrcom |       105    70.13333    45.54712          6        202

. summarize limrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     limrcom |       105    3.985123     .807504   1.791759   5.308268

. summarize delivcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    delivcom |       103    59.42718    27.90024          7        100
```

Model 2-4: Change in IMR produced by a 1 SD change in trained att. at birth

```
. estsimp regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi delivcom, r

Linear regression                                       Number of obs =     103
                                                        F(  8,    94) =   90.72
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8607
                                                        Root MSE      =  .31022

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   -.453796   .0684336    -6.63   0.000    -.5896725   -.3179196
```

```
    giniavni |   .0077974   .0057938     1.35   0.182    -.0037064    .0193012
       ethnl |   .2429785   .1107555     2.19   0.031     .0230708    .4628861
        musl |   .2846971    .110476     2.58   0.012     .0653443    .5040499
     fertwdi |   .0489119    .029416     1.66   0.100    -.0094942     .107318
       lpopd |  -.0889166   .0330208    -2.69   0.008    -.1544803    -.023353
      urbwdi |  -.0016754   .0021983    -0.76   0.448    -.0060402    .0026895
    delivcom |  -.0069125    .001763    -3.92   0.000     -.010413    -.003412
       _cons |   7.521111   .6256743    12.02   0.000      6.27882    8.763402
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....
% of simulations completed: 11% 22% 33% 44% 55% 66% 77% 88% 100%


Simulating sigma-squared.  Please wait


Number of simulations  : 1000
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9 b10

. setx mean

. simqi, tfunc(exp) fd(ev) changex(delivcom 59.42718 87.32742)

First Difference: delivcom 59.42718 87.32742

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
         dE[exp(limrcom)] |   -9.99197     2.352531     -14.5073   -5.289354
```

Model 2-4: How much of a rise in trained birth attendance would reduce IMR from 54 to 49?

```
. simqi, tfunc(exp) fd(ev) changex(delivcom 59.42718 72.72)

First Difference: delivcom 59.42718 72.72

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
         dE[exp(limrcom)] |  -5.000855     1.475196    -7.838043   -1.913948

display 72.72-59.42718
13.29282
```

Model 2-4: Robustness checks

Model 2-4: Robust Check 1.1: Change specification: Exclude fertility

```
. regress limrcom lgdph giniavni ethnl musl lpopd urbwdi delivcom, r

Linear regression                                      Number of obs =     103
                                                       F(  7,    95) =  105.22
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8576
                                                       Root MSE      =  .31207

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4846787   .0624027    -7.77   0.000    -.6085637   -.3607937
    giniavni |   .0087684   .0058717     1.49   0.139    -.0028885    .0204252
       ethnl |   .2773771   .1118199     2.48   0.015     .0553866    .4993675
```

```
       musl |    .347322   .1041839     3.33   0.001     .1404908    .5541531
      lpopd |  -.0988411   .0327795    -3.02   0.003    -.1639167   -.0337655
     urbwdi |  -.0019468   .0022125    -0.88   0.381    -.0063392    .0024455
   delivcom |  -.0078615   .0016886    -4.66   0.000    -.0112138   -.0045093
      _cons |   8.026422   .5180119    15.49   0.000     6.998038    9.054805
------------------------------------------------------------------------------
```

Model 2-4: Robust Check 1.2: Change specification: Include mean years of female school

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi delivcom mysfx, r

Linear regression                               Number of obs =     103
                                                F(  9,    93) =   87.04
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8704
                                                Root MSE      =  .30091

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4142324   .0667232    -6.21   0.000    -.5467315   -.2817334
    giniavni |     .00855   .0057656     1.48   0.141    -.0028992    .0199993
       ethnl |   .1768433   .1116434     1.58   0.117    -.0448583    .3985449
        musl |   .1909099   .1054616     1.81   0.073     -.018516    .4003357
     fertwdi |   .0086012   .0331379     0.26   0.796    -.0572041    .0744066
       lpopd |  -.0968849   .0335522    -2.89   0.005     -.163513   -.0302569
      urbwdi |  -.0014287   .0022112    -0.65   0.520    -.0058196    .0029623
    delivcom |  -.0054311   .0017035    -3.19   0.002    -.0088139   -.0020482
       mysfx |   -.073902   .0270816    -2.73   0.008    -.1276807   -.0201233
       _cons |   7.623177   .6372013    11.96   0.000     6.357822    8.888533
------------------------------------------------------------------------------
```

Model 2-4: Robust Check 1.3: Change specification: Include female literacy

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi delivcom litfewdi, r

Linear regression                               Number of obs =     103
                                                F(  9,    93) =   77.06
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8649
                                                Root MSE      =  .30715

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4412261   .0682471    -6.47   0.000    -.5767514   -.3057008
    giniavni |   .0087433   .0058453     1.50   0.138    -.0028643     .020351
       ethnl |    .176647   .1085471     1.63   0.107     -.038906       .3922
        musl |   .2139625   .1129873     1.89   0.061    -.0104078    .4383328
     fertwdi |   .0180677   .0330852     0.55   0.586     -.047633    .0837684
       lpopd |  -.0965492   .0334148    -2.89   0.005    -.1629042   -.0301941
      urbwdi |  -.0018272   .0022262    -0.82   0.414    -.0062481    .0025936
    delivcom |  -.0055958    .001805    -3.10   0.003    -.0091802   -.0020114
    litfewdi |  -.0039574   .0020292    -1.95   0.054    -.0079871    .0000723
       _cons |    7.74946   .6397255    12.11   0.000     6.479092    9.019828
------------------------------------------------------------------------------
```

Model 2-4: Robust Check 1.4: Change specification: Include geographical variables

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi delivcom airdist popcrgs latcapab,
r

Linear regression                                       Number of obs =     103
                                                        F( 11,    91) =   66.97
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8683
                                                        Root MSE      =   .3066

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4449685   .0673051    -6.61   0.000    -.5786619   -.3112751
    giniavni |   .0083391   .0053724     1.55   0.124    -.0023325    .0190108
       ethnl |   .2880856   .0997609     2.89   0.005     .0899229    .4862484
        musl |   .2080681   .1273159     1.63   0.106    -.0448293    .4609655
     fertwdi |   .0611276   .0342527     1.78   0.078    -.0069111    .1291663
       lpopd |  -.0745661   .0317422    -2.35   0.021     -.137618   -.0115142
      urbwdi |  -.0013103   .0021725    -0.60   0.548    -.0056258    .0030051
    delivcom |  -.0072031   .0018783    -3.83   0.000    -.0109342   -.0034721
     airdist |   2.17e-06   .0000172     0.13   0.900    -.0000319    .0000363
     popcrgs |  -.0006857   .0009913    -0.69   0.491    -.0026548    .0012834
    latcapab |   .0068835   .0038142     1.80   0.074     -.000693      .01446
       _cons |   7.216112   .5963176    12.10   0.000     6.031601    8.400624
------------------------------------------------------------------------------
```

Model 2-4: Robust Check 1.5: Change specification: Include regional dummy variables

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi delivcom afri lati east sout, r

Linear regression                                       Number of obs =     103
                                                        F( 12,    90) =   60.25
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8667
                                                        Root MSE      =  .31023

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4800677   .0711047    -6.75   0.000    -.6213295   -.3388059
    giniavni |   .0100578   .0057122     1.76   0.082    -.0012905    .0214061
       ethnl |   .1536599   .1268099     1.21   0.229    -.0982701    .4055898
        musl |   .1305082   .1266754     1.03   0.306    -.1211546     .382171
     fertwdi |   .0196311   .0361341     0.54   0.588    -.0521556    .0914179
       lpopd |  -.1004298   .0362433    -2.77   0.007    -.1724336   -.0284261
      urbwdi |  -.0000465   .0026807    -0.02   0.986    -.0053723    .0052792
    delivcom |  -.0082174   .0019376    -4.24   0.000    -.0120667   -.0043681
        afri |   -.116129    .120098    -0.97   0.336    -.3547246    .1224666
        lati |  -.3125927   .1577813    -1.98   0.051    -.6260527    .0008674
        east |   -.160239   .1620415    -0.99   0.325    -.4821628    .1616847
        sout |  -.1043877   .2238641    -0.47   0.642    -.5491327    .3403573
       _cons |   8.021371   .6397265    12.54   0.000     6.750443      9.2923
------------------------------------------------------------------------------
```

Model 2-4: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi delivcom gdphf giniavnf ethnlf, r

Linear regression                                       Number of obs =     103
                                                        F( 10,    92) =   70.81
```

```
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8665
                                                Root MSE      =  .30698

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4429435   .0680538    -6.51   0.000    -.5781042   -.3077828
    giniavni |   .0057794   .0058784     0.98   0.328    -.0058956    .0174544
       ethnl |   .2120195   .1129697     1.88   0.064     -.012348     .436387
        musl |   .2673308   .1099314     2.43   0.017     .0489976    .4856641
     fertwdi |   .0582112   .0338746     1.72   0.089    -.0090668    .1254891
       lpopd |  -.0910877   .0320541    -2.84   0.006    -.1547499   -.0274255
      urbwdi |  -.0015047   .0022115    -0.68   0.498    -.0058969    .0028876
    delivcom |  -.0065359   .0019821    -3.30   0.001    -.0104725   -.0025992
       gdphf |  (dropped)
    giniavnf |   .0511667    .091879     0.56   0.579    -.1313128    .2336463
      ethnlf |  -.2967594   .1726823    -1.72   0.089    -.6397213    .0462025
       _cons |   7.482605   .5888805    12.71   0.000     6.313038    8.652173
------------------------------------------------------------------------------
```

Model 2-4: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi delivcom

   Huber iteration 1:  maximum difference in weights = .58198938
   Huber iteration 2:  maximum difference in weights = .08394717
   Huber iteration 3:  maximum difference in weights = .0246733
Biweight iteration 4:  maximum difference in weights = .17785926
Biweight iteration 5:  maximum difference in weights = .04205448
Biweight iteration 6:  maximum difference in weights = .01582898
Biweight iteration 7:  maximum difference in weights = .0052905

Robust regression                               Number of obs =     103
                                                F(  8,    94) =   72.51
                                                Prob > F      =  0.0000

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4462894   .0717779    -6.22   0.000    -.5888061   -.3037727
    giniavni |   .0101973   .0041717     2.44   0.016     .0019143    .0184803
       ethnl |   .2660402   .1201428     2.21   0.029     .0274939    .5045865
        musl |   .2984027    .106167     2.81   0.006     .0876057    .5091997
     fertwdi |    .049649   .0338277     1.47   0.146    -.0175168    .1168148
       lpopd |  -.0624587   .0240067    -2.60   0.011    -.1101245   -.0147929
      urbwdi |  -.0017742   .0024847    -0.71   0.477    -.0067076    .0031592
    delivcom |  -.0077757   .0018753    -4.15   0.000    -.0114992   -.0040522
       _cons |   7.290697   .5617547    12.98   0.000      6.17532    8.406074
------------------------------------------------------------------------------
```

Model 2-4: Robust Check 3.2: Outlier checks: Median regression

```
. qreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi delivcom
Iteration  1:  WLS sum of weighted deviations =  24.370931

Iteration  1: sum of abs. weighted deviations =  31.034282
Iteration  2: sum of abs. weighted deviations =  24.459794
Iteration  3: sum of abs. weighted deviations =  24.303811
Iteration  4: sum of abs. weighted deviations =  24.136985
Iteration  5: sum of abs. weighted deviations =  23.775386
```

```
Iteration  6: sum of abs. weighted deviations =   23.75782
Iteration  7: sum of abs. weighted deviations =  23.749723
Iteration  8: sum of abs. weighted deviations =  23.735634
Iteration  9: sum of abs. weighted deviations =  23.622506
Iteration 10: sum of abs. weighted deviations =  23.620109
Iteration 11: sum of abs. weighted deviations =  23.612283
Iteration 12: sum of abs. weighted deviations =  23.612027

Median regression                                   Number of obs =       103
  Raw sum of deviations 66.22177 (about 4.1431346)
  Min sum of deviations 23.61203                    Pseudo R2     =    0.6434

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    -.46502   .1294675    -3.59   0.001    -.7220807   -.2079593
    giniavni |   .0045166   .0075834     0.60   0.553    -.0105405    .0195736
       ethnl |   .2551711   .2153282     1.19   0.239    -.1723681    .6827103
        musl |   .2335827   .1875927     1.25   0.216     -.138887    .6060524
     fertwdi |   .0429526    .059919     0.72   0.475    -.0760178    .1619231
       lpopd |  -.0649894   .0422742    -1.54   0.128    -.1489259    .0189472
      urbwdi |  -.0003482   .0044907    -0.08   0.938    -.0092646    .0085681
    delivcom |   -.008259   .0034629    -2.39   0.019    -.0151346   -.0013834
       _cons |   7.713896   1.007056     7.66   0.000     5.714363    9.713429
------------------------------------------------------------------------------
```

Model 2-4: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi delivcom if ctry ~= "Mongolia" &
ctry ~= "Cuba", r

Linear regression                                   Number of obs =     101
                                                    F(  8,    92) =   84.57
                                                    Prob > F      =  0.0000
                                                    R-squared     =  0.8783
                                                    Root MSE      =  .28613

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   -.474556   .0622818    -7.62   0.000    -.5982531   -.3508589
    giniavni |   .0092863   .0048052     1.93   0.056    -.0002572    .0188298
       ethnl |   .2772689   .1055301     2.63   0.010      .067677    .4868609
        musl |   .3278446   .0958617     3.42   0.001     .1374551    .5182342
     fertwdi |   .0405617   .0281289     1.44   0.153    -.0153046     .096428
       lpopd |  -.0654267   .0261489    -2.50   0.014    -.1173607   -.0134927
      urbwdi |  -.0009901   .0020347    -0.49   0.628    -.0050313     .003051
    delivcom |  -.0074557   .0016291    -4.58   0.000    -.0106912   -.0042202
       _cons |    7.54212    .513569    14.69   0.000     6.522128    8.562112
------------------------------------------------------------------------------
```

Model 2-4: Robust Ck 4.1: Endog ck: Corr cand. inst (rpos) & hyp endg reg (delivcom)

```
. correlate delivcom rpos
(obs=87)

             | delivcom     rpos
-------------+------------------
    delivcom |   1.0000
        rpos |   0.5405   1.0000
```

Model 2-4: Robust Ck 4.2: Endog ck: Does CI predict HER in presence of exog regressors?

```
. ivreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi (delivcom = rpos), first

First-stage regressions
-----------------------

      Source |       SS       df       MS              Number of obs =      87
-------------+------------------------------           F(  8,    78) =   18.16
       Model |   40123.067     8  5015.38337           Prob > F      =  0.0000
    Residual |  21538.3353    78  276.132504           R-squared     =  0.6507
-------------+------------------------------           Adj R-squared =  0.6149
       Total |  61661.4023    86   716.99305           Root MSE      =  16.617

------------------------------------------------------------------------------
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    5.62992   4.111706     1.37   0.175    -2.555857     13.8157
    giniavni |   -.158857   .2572093    -0.62   0.539    -.6709214    .3532075
       ethnl |  -4.143097   7.369752    -0.56   0.576    -18.81515    10.52895
        musl |  -5.342489   6.289745    -0.85   0.398    -17.86441    7.179432
     fertwdi |  -3.113102   2.036527    -1.53   0.130    -7.167516    .9413115
       lpopd |   -2.15036   1.586488    -1.36   0.179    -5.308816    1.008095
      urbwdi |   .4176837   .1429754     2.92   0.005     .1330414    .7023259
        rpos |   5.150431   1.717122     3.00   0.004     1.731903    8.568959
       _cons |   24.36597   32.41469     0.75   0.454    -40.16672    88.89865
------------------------------------------------------------------------------
```

Model 2-4: Robust Check 4.3: Endog ck: 2SLS using rpos as instrument for delivcom

```
Instrumental variables (2SLS) regression

      Source |       SS       df       MS              Number of obs =      87
-------------+------------------------------           F(  8,    78) =   63.75
       Model |  44.4655113     8  5.55818891           Prob > F      =  0.0000
    Residual |  6.60046724    78  .084621375           R-squared     =  0.8707
-------------+------------------------------           Adj R-squared =  0.8575
       Total |  51.0659785    86  .593790448           Root MSE      =   .2909

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
    delivcom |   -.011709   .0058363    -2.01   0.048    -.0233282   -.0000897
       lgdph |  -.4370814   .0845059    -5.17   0.000    -.6053196   -.2688432
    giniavni |   .0121807   .0046607     2.61   0.011     .0029019    .0214594
       ethnl |   .2576483   .1288253     2.00   0.049     .0011769    .5141196
        musl |   .3434107   .1166622     2.94   0.004     .1111541    .5756673
     fertwdi |   .0138187   .0474959     0.29   0.772    -.0807385    .1083758
       lpopd |  -.0441777    .030586    -1.44   0.153    -.1050697    .0167143
      urbwdi |  -.0013235   .0030574    -0.43   0.666    -.0074104    .0047633
       _cons |   7.434373   .5990918    12.41   0.000     6.241673    8.627073
------------------------------------------------------------------------------
Instrumented:  delivcom
Instruments:   lgdph giniavni ethnl musl fertwdi lpopd urbwdi rpos
------------------------------------------------------------------------------
```

Model 2-4: Robust Check 4.4: Endog ck: Hausman test for diff btw coeff of OLS & of 2SLS

```
. estimates store ivrpos2
```

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi delivcom if rpos ~= .

      Source |       SS       df       MS              Number of obs =      87
-------------+------------------------------           F(  8,    78) =   68.11
       Model |  44.6715513     8  5.58394391           Prob > F      =  0.0000
    Residual |  6.39442725    78  .081979837           R-squared     =  0.8748
-------------+------------------------------           Adj R-squared =  0.8619
       Total |  51.0659785    86  .593790448           Root MSE      =  .28632

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4602941   .0711308    -6.47   0.000    -.6019046   -.3186835
    giniavni |   .0128051   .0044383     2.89   0.005     .0039692    .0216411
       ethnl |   .2632123   .1263768     2.08   0.041     .0116154    .5148092
        musl |   .3631955   .1087884     3.34   0.001     .1466144    .5797766
     fertwdi |   .0319774   .0323726     0.99   0.326    -.0324715    .0964262
       lpopd |  -.0377467   .0276339    -1.37   0.176    -.0927616    .0172682
      urbwdi |  -.0022525   .0024656    -0.91   0.364    -.0071611    .0026561
    delivcom |  -.0087803   .0018473    -4.75   0.000    -.0124581   -.0051026
       _cons |   7.333558   .5591487    13.12   0.000     6.220379    8.446738
------------------------------------------------------------------------------

. hausman ivrpos2, constant

                 ---- Coefficients ----
             |      (b)          (B)            (b-B)     sqrt(diag(V_b-V_B))
             |    ivrpos2         .          Difference          S.E.
-------------+----------------------------------------------------------------
    delivcom |    -.011709    -.0087803       -.0029286        .0055362
       lgdph |   -.4370814    -.4602941        .0232127        .0456251
    giniavni |    .0121807     .0128051       -.0006245        .0014225
       ethnl |    .2576483     .2632123        -.005564         .024997
        musl |    .3434107     .3631955       -.0197848        .0421326
     fertwdi |    .0138187     .0319774       -.0181587        .0347546
       lpopd |   -.0441777    -.0377467        -.006431        .0131099
      urbwdi |   -.0013235    -.0022525         .000929        .0018079
       _cons |    7.434373     7.333558        .1008145        .2150901
------------------------------------------------------------------------------
                           b = consistent under Ho and Ha; obtained from ivreg
         B = inconsistent under Ha, efficient under Ho; obtained from regress

    Test:  Ho:  difference in coefficients not systematic

                 chi2(9) = (b-B)'[(V_b-V_B)^(-1)](b-B)
                         =        0.28
               Prob>chi2 =      1.0000
```

Model 2-4: Robust Check 5.1: DepV: change IMR to U5MR (limrcom to lu5mrcom)

```
. regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi delivcom, r

Linear regression                                      Number of obs =     103
                                                       F(  8,    94) =  111.37
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8642
                                                       Root MSE      =  .35126

------------------------------------------------------------------------------
             |               Robust
    lu5mrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
```

```
       lgdph |  -.4673322   .0831029    -5.62   0.000    -.6323349   -.3023295
    giniavni |    .005719   .0064549     0.89   0.378    -.0070974    .0185355
       ethnl |   .3258983   .1315944     2.48   0.015     .0646146     .587182
        musl |   .2079594   .1224057     1.70   0.093      -.03508    .4509989
     fertwdi |    .087635   .0344367     2.54   0.013     .0192602    .1560097
       lpopd |   -.099524   .0366835    -2.71   0.008      -.17236    -.026688
      urbwdi |  -.0015978    .002476    -0.65   0.520    -.0065139    .0033183
    delivcom |  -.0080063   .0020372    -3.93   0.000    -.0120513   -.0039613
       _cons |   7.932082   .7326835    10.83   0.000     6.477322    9.386842
------------------------------------------------------------------------------
```

Model 2-4: Robust Check 5.2: DepV: Vary source: infant mortality (limrcom to limrwdi)

```
. regress limrwdi lgdph giniavni ethnl musl fertwdi lpopd urbwdi delivcom, r

Linear regression                               Number of obs =     103
                                                F(  8,    94) =   96.89
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8792
                                                Root MSE      =  .28628

------------------------------------------------------------------------------
             |               Robust
     limrwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4566801   .0635509    -7.19   0.000    -.5828619   -.3304984
    giniavni |   .0095227   .0052091     1.83   0.071      -.00082    .0198654
       ethnl |   .1766518   .0989264     1.79   0.077    -.0197689    .3730725
        musl |   .2382771   .1033395     2.31   0.023     .0330941    .4434601
     fertwdi |   .0602871   .0280151     2.15   0.034     .0046624    .1159118
       lpopd |  -.0643856   .0265299    -2.43   0.017    -.1170613   -.0117099
      urbwdi |  -.0017911   .0022204    -0.81   0.422    -.0061997    .0026176
    delivcom |  -.0071071   .0015515    -4.58   0.000    -.0101877   -.0040264
       _cons |   7.380559   .5728807    12.88   0.000      6.24309    8.518027
------------------------------------------------------------------------------
```

Model 2-4: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)

```
. regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi delivcom, r

Linear regression                               Number of obs =     102
                                                F(  8,    93) =   92.30
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8767
                                                Root MSE      =  .29334

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |  -.4673723   .0682462    -6.85   0.000    -.6028958   -.3318487
    giniavni |   .0080546   .0046914     1.72   0.089    -.0012617    .0173709
       ethnl |   .2193924   .1050701     2.09   0.040      .010744    .4280408
        musl |    .207511   .1019992     2.03   0.045     .0049608    .4100613
     fertwdi |    .021369   .0318692     0.67   0.504     -.041917    .0846549
       lpopd |   -.101818   .0262576    -3.88   0.000    -.1539603   -.0496757
      urbwdi |  -.0022408   .0020735    -1.08   0.283    -.0063583    .0018767
    delivcom |  -.0082057   .0016389    -5.01   0.000    -.0114602   -.0049513
       _cons |   7.937826   .6452172    12.30   0.000     6.656553    9.219099
------------------------------------------------------------------------------
```

Model 2-4: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

```
. regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi delivcom gdpmf, r

Linear regression                                      Number of obs =     102
                                                       F(  9,    92) =   82.42
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8767
                                                       Root MSE      =  .29491

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |  -.4662466   .0694156    -6.72   0.000    -.6041121   -.3283812
    giniavni |   .0080293   .0047342     1.70   0.093    -.0013733    .0174319
       ethnl |   .2213686   .1076288     2.06   0.043     .0076085    .4351288
        musl |   .2076547   .1023595     2.03   0.045       .00436    .4109494
     fertwdi |   .0206965   .0326599     0.63   0.528    -.0441689    .0855618
       lpopd |  -.1024414    .027217    -3.76   0.000    -.1564967   -.0483861
      urbwdi |  -.0023094   .0021717    -1.06   0.290    -.0066225    .0020038
    delivcom |  -.0081967   .0016536    -4.96   0.000    -.0114809   -.0049125
       gdpmf |  -.0201536   .1518105    -0.13   0.895    -.3216625    .2813552
       _cons |   7.938161   .6490569    12.23   0.000     6.649078    9.227244
------------------------------------------------------------------------------
```

Model 2-4: Robust Check 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)

```
. regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi delivcom, r

Linear regression                                      Number of obs =     103
                                                       F(  8,    94) =   94.02
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8603
                                                       Root MSE      =  .31073

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4352549    .073224    -5.94   0.000    -.5806428    -.289867
    giniavni |   .0085396   .0057564     1.48   0.141    -.0028898     .019969
    ethnannx |   .2797711    .143363     1.95   0.054    -.0048794    .5644217
        musl |   .2795799   .1120079     2.50   0.014     .0571855    .5019743
     fertwdi |   .0568537   .0302128     1.88   0.063    -.0031345    .1168419
       lpopd |  -.0835068    .032877    -2.54   0.013    -.1487849   -.0182286
      urbwdi |  -.0023772    .002264    -1.05   0.296    -.0068724     .002118
    delivcom |  -.0069544   .0017925    -3.88   0.000    -.0105134   -.0033954
       _cons |    7.26059   .6781971    10.71   0.000     5.914014    8.607167
------------------------------------------------------------------------------
```

Model 2-4: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

```
. regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi delivcom ethnannf, r

Linear regression                                      Number of obs =     103
                                                       F(  9,    93) =   86.16
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8603
                                                       Root MSE      =  .31238
```

```
------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4322442   .0863646    -5.00   0.000    -.6037473   -.2607411
    giniavni |    .008625   .0058645     1.47   0.145    -.0030209    .0202708
    ethnannx |   .2815839   .1475586     1.91   0.059    -.0114382    .5746061
        musl |   .2787379   .1127353     2.47   0.015      .054868    .5026078
     fertwdi |   .0571123    .030779     1.86   0.067    -.0040088    .1182333
       lpopd |  -.0834579   .0331009    -2.52   0.013    -.1491898    -.017726
      urbwdi |  -.0024316   .0022794    -1.07   0.289    -.0069579    .0020947
    delivcom |  -.0069972   .0019521    -3.58   0.001    -.0108736   -.0031208
    ethnannf |   .0142108   .1699991     0.08   0.934    -.3233737    .3517953
       _cons |   7.235657   .7798721     9.28   0.000     5.686986    8.784329
------------------------------------------------------------------------------
```

Table 2.2, Model 2-5: Child Immunization (DTP3) and Infant Mortality

Model 2-5: Bivariate correlations among independent variables

```
. correlate lgdph giniavni ethnl musl fertwdi lpopd urbwdi dtp3con (obs=98)

             |    lgdph giniavni    ethnl     musl  fertwdi    lpopd   urbwdi  dtp3con
-------------+------------------------------------------------------------------------
       lgdph |   1.0000
    giniavni |   0.0553   1.0000
       ethnl |  -0.4639   0.1837   1.0000
        musl |   0.3037  -0.2999  -0.2504   1.0000
     fertwdi |  -0.6226   0.0745   0.4365   0.1169   1.0000
       lpopd |   0.0816  -0.2807  -0.1644  -0.1579  -0.3660   1.0000
      urbwdi |   0.8128   0.0595  -0.4289   0.2752  -0.5620  -0.0329   1.0000
     dtp3con |   0.5026  -0.0153  -0.3702   0.1021  -0.4714   0.1826   0.3716   1.0000
```

Model 2-5: Infant mortality predicted by 7 baseline variables only (same as Model 2-3)

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r

Linear regression                               Number of obs =     105
                                                F(  7,    97) =  115.48
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8460
                                                Root MSE      =  .32809

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5106892   .0728516    -7.01   0.000    -.6552793    -.366099
    giniavni |   .0098456   .0057971     1.70   0.093      -.00166    .0213512
       ethnl |   .2291501   .1208339     1.90   0.061    -.0106718     .468972
        musl |   .3573075   .1090143     3.28   0.001     .1409443    .5736707
     fertwdi |   .0883452   .0306893     2.88   0.005     .0274354    .1492551
       lpopd |  -.0713372   .0317142    -2.25   0.027    -.1342811   -.0083933
      urbwdi |  -.0046217   .0022445    -2.06   0.042    -.0090765   -.0001669
       _cons |   7.311515   .6431156    11.37   0.000     6.035109    8.587922
------------------------------------------------------------------------------
```

Model 2-5: Infant Mortality predicted by 7 baseline variables and DTP3 immuniz.

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi dtp3con, r

Linear regression                                       Number of obs =      98
                                                        F(  8,    89) =   67.89
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8403
                                                        Root MSE      =  .31488

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4558915   .0706083    -6.46   0.000    -.5961888   -.3155943
    giniavni |   .0110655   .0061646     1.80   0.076    -.0011834    .0233145
       ethnl |    .165532   .1160929     1.43   0.157    -.0651422    .3962061
        musl |   .3879822   .1176958     3.30   0.001     .1541232    .6218412
     fertwdi |   .0614774   .0298948     2.06   0.043      .002077    .1208778
       lpopd |  -.0752324   .0369623    -2.04   0.045    -.1486757   -.0017891
      urbwdi |  -.0058671   .0021473    -2.73   0.008    -.0101337   -.0016004
     dtp3con |  -.0054856   .0014611    -3.75   0.000    -.0083888   -.0025824
       _cons |   7.458449   .6583748    11.33   0.000     6.150272    8.766625
------------------------------------------------------------------------------
```

Model 2-5: Means and SDs of DTP3 immunization and infant mortality

```
. summarize imrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
      imrcom |       105    70.13333    45.54712          6        202

. summarize limrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     limrcom |       105    3.985123     .807504   1.791759   5.308268

. summarize dtp3con

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     dtp3con |        98    71.93878    21.30186         17         99
```

Model 2-5: How much would infant mortality fall if DTP3 immuniz. rose one SD?

```
. estsimp regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi dtp3con, r

Linear regression                                       Number of obs =      98
                                                        F(  8,    89) =   67.89
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8403
                                                        Root MSE      =  .31488

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4558915   .0706083    -6.46   0.000    -.5961888   -.3155943
    giniavni |   .0110655   .0061646     1.80   0.076    -.0011834    .0233145
       ethnl |    .165532   .1160929     1.43   0.157    -.0651422    .3962061
        musl |   .3879822   .1176958     3.30   0.001     .1541232    .6218412
```

```
     fertwdi |   .0614774   .0298948     2.06   0.043      .002077    .1208778
       lpopd |  -.0752324   .0369623    -2.04   0.045    -.1486757   -.0017891
      urbwdi |  -.0058671   .0021473    -2.73   0.008    -.0101337   -.0016004
     dtp3con |  -.0054856   .0014611    -3.75   0.000    -.0083888   -.0025824
       _cons |   7.458449   .6583748    11.33   0.000     6.150272    8.766625
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....
% of simulations completed: 11% 22% 33% 44% 55% 66% 77% 88% 100%


Simulating sigma-squared.  Please wait


Number of simulations  : 1000
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9 b10

. setx mean
. simqi, tfunc(exp) fd(ev) changex(dtp3con 71.93878 93.24064)

First Difference: dtp3con 71.93878 93.24064

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
          dE[exp(limrcom)] |   -6.25499     1.861705    -9.715178   -2.498915
```

Model 2-5: Robustness checks

Model 2-5: Robust Check 1.1: Change specification: Exclude fertility

```
. regress limrcom lgdph giniavni ethnl musl lpopd urbwdi dtp3con, r

Linear regression                                      Number of obs =      98
                                                       F(  7,    90) =   75.96
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8338
                                                       Root MSE      =   .3194

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5000411   .0639488    -7.82   0.000    -.6270865   -.3729957
    giniavni |   .0127049   .0062476     2.03   0.045      .000293    .0251169
       ethnl |    .206926   .1195664     1.73   0.087    -.0306136    .4444655
        musl |   .4804089     .11214     4.28   0.000     .2576233    .7031945
       lpopd |  -.0892254    .035323    -2.53   0.013    -.1594008     -.01905
      urbwdi |  -.0069539   .0022238    -3.13   0.002    -.0113719   -.0025358
     dtp3con |  -.0060964   .0014612    -4.17   0.000    -.0089993   -.0031936
       _cons |   8.124436   .5309509    15.30   0.000     7.069609    9.179262
------------------------------------------------------------------------------
```

Model 2-5: Robust Check 1.2: Change specification: Include mean years of female school

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi dtp3con mysfx, r

Linear regression                                      Number of obs =      98
                                                       F(  9,    88) =   60.94
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8543
                                                       Root MSE      =  .30242
```

```
------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4080175   .0702727    -5.81   0.000    -.5476697   -.2683653
    giniavni |   .0110045   .0062141     1.77   0.080    -.0013446    .0233537
       ethnl |   .1037922   .1131035     0.92   0.361    -.1209772    .3285616
        musl |   .2624634   .1144736     2.29   0.024     .0349711    .4899556
     fertwdi |    .013974   .0313862     0.45   0.657    -.0483995    .0763475
       lpopd |  -.0891711   .0388022    -2.30   0.024    -.1662823   -.0120599
      urbwdi |  -.0047177   .0021673    -2.18   0.032    -.0090248   -.0004106
     dtp3con |  -.0046688   .0014405    -3.24   0.002    -.0075314   -.0018061
       mysfx |  -.0799484   .0264126    -3.03   0.003     -.132438   -.0274589
       _cons |   7.606316   .6803512    11.18   0.000     6.254261    8.958371
------------------------------------------------------------------------------
```

Model 2-5: Robust Check 1.3: Change specification: Include female literacy

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi dtp3con litfewdi, r

Linear regression                                      Number of obs =      98
                                                       F(  9,    88) =   58.62
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8476
                                                       Root MSE      =  .30934

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4376973   .0685841    -6.38   0.000    -.5739938   -.3014008
    giniavni |   .0119109   .0064207     1.86   0.067    -.0008489    .0246707
       ethnl |   .1018582   .1114274     0.91   0.363    -.1195803    .3232968
        musl |   .2839536   .1195295     2.38   0.020     .0464138    .5214934
     fertwdi |   .0205484   .0340861     0.60   0.548    -.0471907    .0882874
       lpopd |  -.0862712    .038122    -2.26   0.026    -.1620306   -.0105117
      urbwdi |  -.0051299   .0022015    -2.33   0.022    -.0095048   -.0007549
     dtp3con |   -.004688   .0014682    -3.19   0.002    -.0076058   -.0017702
    litfewdi |   -.004672   .0020886    -2.24   0.028    -.0088227   -.0005213
       _cons |   7.739178    .671836    11.52   0.000     6.404046    9.074311
------------------------------------------------------------------------------
```

Model 2-5: Robust Check 1.4: Change specification: Include geographical variables

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi dtp3con airdist popcrgs latcapab, r

Linear regression                                      Number of obs =      98
                                                       F( 11,    86) =   50.10
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8510
                                                       Root MSE      =   .3094

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   -.434114    .070921    -6.12   0.000    -.5751004   -.2931277
    giniavni |   .0115512   .0054886     2.10   0.038     .0006402    .0224623
       ethnl |   .2246835    .112132     2.00   0.048     .0017724    .4475946
        musl |    .294298   .1405928     2.09   0.039     .0148087    .5737873
     fertwdi |   .0714749   .0330431     2.16   0.033     .0057873    .1371624
       lpopd |  -.0549898   .0339434    -1.62   0.109    -.1224671    .0124875
```

```
      urbwdi |  -.0056054   .0020163    -2.78   0.007    -.0096138    -.001597
     dtp3con |  -.0057869   .0015028    -3.85   0.000    -.0087744   -.0027994
     airdist |   8.24e-07   .0000177     0.05   0.963    -.0000344    .000036
     popcrgs |  -.0012282   .0010951    -1.12   0.265    -.0034052   .0009488
    latcapab |   .0072119   .0038901     1.85   0.067    -.0005214   .0149452
       _cons |   7.079922   .6072995    11.66   0.000     5.872651   8.287194
------------------------------------------------------------------------------
```

Model 2-5: Robust Check 1.5: Change specification: Include regional dummy variables

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi dtp3con afri lati east sout, r

Linear regression                               Number of obs =      98
                                                F( 12,    85) =   44.58
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8468
                                                Root MSE      =  .31551

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4819524   .0735763    -6.55   0.000    -.6282418   -.3356631
    giniavni |   .0143993    .006087     2.37   0.020     .0022966    .0265019
       ethnl |   .1230793   .1431003     0.86   0.392    -.1614424    .4076011
        musl |   .2113306    .109673     1.93   0.057    -.0067287    .4293899
     fertwdi |   .0440889     .03526     1.25   0.215    -.0260174    .1141953
       lpopd |  -.0825162   .0374992    -2.20   0.030    -.1570747   -.0079578
      urbwdi |  -.0048341   .0026572    -1.82   0.072    -.0101172     .000449
     dtp3con |  -.0063489   .0017061    -3.72   0.000    -.0097411   -.0029568
        afri |  -.2002468   .1217637    -1.64   0.104    -.4423457    .0418521
        lati |  -.3194273   .1470158    -2.17   0.033    -.6117342   -.0271205
        east |  -.2230956   .1661279    -1.34   0.183    -.5534024    .1072111
        sout |  -.0576741   .1937749    -0.30   0.767    -.4429506    .3276024
       _cons |   7.875188   .6653978    11.84   0.000     6.552199    9.198177
------------------------------------------------------------------------------
```

Model 2-5: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi dtp3con gdphf giniavnf ethnlf, r

Linear regression                               Number of obs =      98
                                                F( 10,    87) =   54.80
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8466
                                                Root MSE      =  .31206

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4482639   .0707286    -6.34   0.000    -.5888446   -.3076833
    giniavni |   .0082844   .0063301     1.31   0.194    -.0042973     .020866
       ethnl |   .1372143     .11746     1.17   0.246    -.0962502    .3706789
        musl |   .3706159   .1162084     3.19   0.002     .1396392    .6015926
     fertwdi |   .0759163   .0307226     2.47   0.015     .0148517    .1369808
       lpopd |  -.0765335   .0353769    -2.16   0.033    -.1468489   -.0062181
      urbwdi |  -.0050653   .0022437    -2.26   0.026     -.009525   -.0006057
     dtp3con |  -.0048119   .0015459    -3.11   0.003    -.0078845   -.0017393
       gdphf |  (dropped)
    giniavnf |   .0041011   .0829041     0.05   0.961    -.1606798     .168882
      ethnlf |  -.2869628   .1789441    -1.60   0.112    -.6426336    .0687081
```

```
       _cons |   7.405777   .6157159    12.03   0.000     6.181975    8.629579
------------------------------------------------------------------------------
```

Model 2-5: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi dtp3con

   Huber iteration 1:  maximum difference in weights = .53501044
   Huber iteration 2:  maximum difference in weights = .06171693
   Huber iteration 3:  maximum difference in weights = .02168817
Biweight iteration 4:  maximum difference in weights = .15530791
Biweight iteration 5:  maximum difference in weights = .03660003
Biweight iteration 6:  maximum difference in weights = .02904456
Biweight iteration 7:  maximum difference in weights = .01921269
Biweight iteration 8:  maximum difference in weights = .01264146
Biweight iteration 9:  maximum difference in weights = .00758423

Robust regression                                     Number of obs =      98
                                                      F(  8,    89) =   53.74
                                                      Prob > F      =  0.0000

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   -.448218    .076842    -5.83   0.000    -.6009015   -.2955345
    giniavni |   .0145238   .0047502     3.06   0.003     .0050853    .0239623
       ethnl |   .1926589   .1298719     1.48   0.141    -.0653937    .4507115
        musl |   .4214728   .1134064     3.72   0.000     .1961366    .6468089
     fertwdi |   .0656813    .033863     1.94   0.056    -.0016039    .1329664
       lpopd |  -.0419104   .0274161    -1.53   0.130    -.0963855    .0125648
      urbwdi |  -.0061705   .0025898    -2.38   0.019    -.0113164   -.0010247
     dtp3con |   -.005889   .0019014    -3.10   0.003     -.009667   -.0021109
       _cons |   7.127888   .5977686    11.92   0.000     5.940135    8.315641
------------------------------------------------------------------------------
```

Model 2-5: Robust Check 3.2: Outlier checks: Median regression

```
. qreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi dtp3con
Iteration  1:  WLS sum of weighted deviations =  23.524329

Iteration  1: sum of abs. weighted deviations =  25.097662
Iteration  2: sum of abs. weighted deviations =  24.958402
Iteration  3: sum of abs. weighted deviations =  23.468889
Iteration  4: sum of abs. weighted deviations =  23.107893
Iteration  5: sum of abs. weighted deviations =  23.101055
Iteration  6: sum of abs. weighted deviations =  23.095505
Iteration  7: sum of abs. weighted deviations =  23.025015
Iteration  8: sum of abs. weighted deviations =  22.967935
Iteration  9: sum of abs. weighted deviations =  22.952894

Median regression                                   Number of obs =        98
  Raw sum of deviations 59.91331 (about 4.1271343)
  Min sum of deviations 22.95289                    Pseudo R2     =    0.6169

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4686084   .1044022    -4.49   0.000    -.6760532   -.2611635
    giniavni |   .0131619   .0063749     2.06   0.042     .0004952    .0258287
       ethnl |   .0987434   .1777827     0.56   0.580    -.2545071     .451994
        musl |   .3441702   .1482927     2.32   0.023     .0495157    .6388247
     fertwdi |   .0743075   .0458856     1.62   0.109    -.0168662    .1654812
```

```
       lpopd |   -.039146   .0379893    -1.03   0.306      -.11463     .036338
      urbwdi |  -.0059531   .0034944    -1.70   0.092    -.0128964    .0009902
     dtp3con |  -.0046619   .0025768    -1.81   0.074     -.009782    .0004582
       _cons |   7.274059   .8174523     8.90   0.000     5.649799     8.89832
------------------------------------------------------------------------------
```

Model 2-5: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi dtp3con if ctry ~= "Mongolia" &
ctry ~= "Cuba", r

Linear regression                               Number of obs =      96
                                                F(  8,    87) =   65.26
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8565
                                                Root MSE      =  .29341

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4757561   .0651161    -7.31   0.000    -.6051813   -.3463308
    giniavni |   .0127631   .0050663     2.52   0.014     .0026932    .0228329
       ethnl |   .2020241   .1105933     1.83   0.071    -.0177922    .4218403
        musl |   .4326246   .1024856     4.22   0.000     .2289234    .6363257
     fertwdi |   .0595922   .0288225     2.07   0.042     .0023043    .1168801
       lpopd |  -.0463704   .0276537    -1.68   0.097    -.1013352    .0085944
      urbwdi |  -.0051668   .0020024    -2.58   0.012    -.0091467   -.0011869
     dtp3con |  -.0056653   .0013517    -4.19   0.000     -.008352   -.0029785
       _cons |   7.394162   .5381033    13.74   0.000     6.324623    8.463701
------------------------------------------------------------------------------
```

Model 2-5: Robust Ck 4.1: Endog ck: Corr cand. inst (fertwdin) & hyp endg reg (fertwdi)

```
. correlate fertwdi fertwdin
(obs=105)

             | fertwdi fertwdin
-------------+------------------
     fertwdi |   1.0000
    fertwdin |   0.6135   1.0000
```

Model 2-5: Robust Ck 4.2: Endog ck: Does CI predict HER in presence of exog regressors?

```
. ivreg limrcom lgdph giniavni ethnl musl (fertwdi = fertwdin) lpopd urbwdi dtp3con, first

First-stage regressions
-----------------------

      Source |       SS       df       MS              Number of obs =      98
-------------+------------------------------           F(  8,    89) =   27.55
       Model |  182.154374     8  22.7692968           Prob > F      =  0.0000
    Residual |  73.5652187    89  .826575492           R-squared     =  0.7123
-------------+------------------------------           Adj R-squared =  0.6865
       Total |  255.719593    97  2.63628446           Root MSE      =  .90916

------------------------------------------------------------------------------
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.3774893   .2123996    -1.78   0.079    -.7995227    .0445441
    giniavni |   .0230846      .0129     1.79   0.077    -.0025474    .0487165
```

```
       ethnl |   .1685732   .3670933     0.46   0.647    -.5608333    .8979798
        musl |   .9064585   .3039873     2.98   0.004     .3024423    1.510475
       lpopd |  -.2466389   .0727651    -3.39   0.001    -.3912217   -.1020562
      urbwdi |  -.0234638   .0070533    -3.33   0.001    -.0374787    -.009449
     dtp3con |  -.0108684   .0051719    -2.10   0.038    -.0211449   -.0005919
    fertwdin |   .3380813   .0671854     5.03   0.000     .2045853    .4715773
       _cons |    7.61126   1.452287     5.24   0.000     4.725597    10.49692
------------------------------------------------------------------------------
```

Model 2-5: Robust Check 4.3: Endog ck: 2SLS using fertwdin as instrument for fertwdi

```
Instrumental variables (2SLS) regression

      Source |       SS       df       MS              Number of obs =      98
-------------+------------------------------           F(  8,    89) =   58.16
       Model |  46.414841     8  5.80185513            Prob > F      =  0.0000
    Residual |  8.82435317    89  .099150036           R-squared     =  0.8403
-------------+------------------------------           Adj R-squared =  0.8259
       Total |  55.2391942    97  .569476229           Root MSE      =  .31488

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
     fertwdi |   .0611155    .068827     0.89   0.377    -.0756424    .1978734
       lgdph |  -.4561514   .0854685    -5.34   0.000    -.6259756   -.2863273
    giniavni |   .0110752   .0048238     2.30   0.024     .0014904      .02066
       ethnl |   .1657756   .1307872     1.27   0.208    -.0940957     .425647
        musl |   .3885263   .1417879     2.74   0.007     .1067967    .6702558
       lpopd |  -.0753148    .029645    -2.54   0.013    -.1342188   -.0164108
      urbwdi |  -.0058735   .0026999    -2.18   0.032    -.0112381   -.0005089
     dtp3con |  -.0054892   .0019163    -2.86   0.005    -.0092968   -.0016815
       _cons |   7.462369   .8716388     8.56   0.000     5.730441    9.194297
------------------------------------------------------------------------------
Instrumented:  fertwdi
Instruments:   lgdph giniavni ethnl musl lpopd urbwdi dtp3con fertwdin
------------------------------------------------------------------------------
```

Model 2-5: Robust Check 4.4: Endog ck: Hausman test for diff btw coeff of OLS & of 2SLS

```
. estimates store imrdtp

. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi dtp3con

      Source |       SS       df       MS              Number of obs =      98
-------------+------------------------------           F(  8,    89) =   58.52
       Model |  46.4148534     8  5.80185668            Prob > F      =  0.0000
    Residual |   8.8243408    89  .099149897           R-squared     =  0.8403
-------------+------------------------------           Adj R-squared =  0.8259
       Total |  55.2391942    97  .569476229           Root MSE      =  .31488

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4558915   .0735044    -6.20   0.000    -.6019433   -.3098398
    giniavni |   .0110655   .0045438     2.44   0.017      .002037    .0200941
       ethnl |    .165532   .1242309     1.33   0.186    -.0813122    .4123762
        musl |   .3879822   .1084806     3.58   0.001     .1724334    .6035309
     fertwdi |   .0614774   .0323922     1.90   0.061    -.0028853      .12584
       lpopd |  -.0752324   .0262253    -2.87   0.005    -.1273415   -.0231234
      urbwdi |  -.0058671   .0024773    -2.37   0.020    -.0107894   -.0009448
     dtp3con |  -.0054856   .0018188    -3.02   0.003    -.0090995   -.0018717
       _cons |   7.458449   .5718047    13.04   0.000     6.322285    8.594613
```

```
------------------------------------------------------------------------------

. hausman imrdtp

Note: the rank of the differenced variance matrix (5) does not equal the number of coefficients
being tested (8); be sure this is what you expect, or there may be problems computing the test.
Examine the output of your estimators for anything unexpected and possibly consider scaling your
variables so that the coefficients are on a similar scale.

                 ---- Coefficients ----
             |      (b)          (B)            (b-B)     sqrt(diag(V_b-V_B))
             |     imrdtp         .          Difference          S.E.
-------------+----------------------------------------------------------------
     fertwdi |    .0611155     .0614774       -.0003619        .0607281
       lgdph |   -.4561514    -.4558915       -.0002599        .0436116
    giniavni |    .0110752     .0110655        9.65e-06        .0016194
       ethnl |    .1657756      .165532        .0002437        .0408898
        musl |    .3885263     .3879822        .0005441        .0913004
       lpopd |   -.0753148    -.0752324       -.0000824        .0138225
      urbwdi |   -.0058735    -.0058671       -6.40e-06        .0010735
     dtp3con |   -.0054892    -.0054856       -3.60e-06        .0006034
------------------------------------------------------------------------------
                           b = consistent under Ho and Ha; obtained from ivreg
         B = inconsistent under Ha, efficient under Ho; obtained from regress

    Test:  Ho:  difference in coefficients not systematic

                  chi2(5) = (b-B)'[(V_b-V_B)^(-1)](b-B)
                          =        0.00
                Prob>chi2 =      1.0000
```

Model 2-5: Robust Check 5.1: DepV: change IMR to U5MR (limrcom to lu5mrcom)

```
. regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi dtp3con, r

Linear regression                                      Number of obs =      98
                                                       F(  8,    89) =   74.38
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8409
                                                       Root MSE      =  .36203

------------------------------------------------------------------------------
             |               Robust
    lu5mrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4812357    .085772    -5.61   0.000    -.6516628   -.3108086
    giniavni |    .009339   .0067704     1.38   0.171    -.0041135    .0227916
       ethnl |   .2461181   .1415021     1.74   0.085    -.0350437    .5272798
        musl |   .3253721   .1309187     2.49   0.015     .0652395    .5855048
     fertwdi |   .1010447   .0352053     2.87   0.005     .0310925    .1709969
       lpopd |  -.0880886   .0402115    -2.19   0.031     -.167988   -.0081893
      urbwdi |  -.0065323   .0025879    -2.52   0.013    -.0116745   -.0013901
     dtp3con |   -.005408   .0016017    -3.38   0.001    -.0085905   -.0022254
       _cons |   7.903564     .78117    10.12   0.000     6.351396    9.455732
------------------------------------------------------------------------------
```

Model 2-5: Robust Check 5.2: DepV: Vary source: infant mortality (limrcom to limrwdi)

```
. regress limrwdi lgdph giniavni ethnl musl fertwdi lpopd urbwdi dtp3con, r

Linear regression                                      Number of obs =      98
                                                       F(  8,    89) =   71.44
```

```
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8569
                                                Root MSE      =  .29458

------------------------------------------------------------------------------
             |               Robust
     limrwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4529289    .066935    -6.77   0.000    -.5859274   -.3199304
    giniavni |   .0124194   .0054337     2.29   0.025     .0016228    .023216
       ethnl |   .1162873   .1059592     1.10   0.275    -.0942513    .3268259
        musl |   .3191183   .1115199     2.86   0.005     .0975307    .5407059
     fertwdi |   .0848311   .0290614     2.92   0.004     .0270868    .1425755
       lpopd |  -.0495575   .0277864    -1.78   0.078    -.1047686    .0056535
      urbwdi |  -.0056003   .0021937    -2.55   0.012    -.0099592   -.0012414
     dtp3con |  -.0049708   .0013888    -3.58   0.001    -.0077302   -.0022113
       _cons |   7.166265    .595756    12.03   0.000     5.982511     8.35002
------------------------------------------------------------------------------
```

Model 2-5: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)

```
. regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi dtp3con, r

Linear regression                               Number of obs =      97
                                                F(  8,    88) =   58.35
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8411
                                                Root MSE      =  .31562

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdpmx |  -.4627316   .0742094    -6.24   0.000    -.6102071   -.3152561
    giniavni |   .0102312   .0053477     1.91   0.059    -.0003962    .0208586
       ethnl |   .1587683   .1160528     1.37   0.175    -.0718623    .3893988
        musl |   .3120464   .1130049     2.76   0.007     .0874729    .5366199
     fertwdi |   .0560315   .0338915     1.65   0.102    -.0113207    .1233837
       lpopd |  -.0741005   .0304505    -2.43   0.017    -.1346145   -.0135866
      urbwdi |  -.0063707   .0021345    -2.98   0.004    -.0106125   -.0021289
     dtp3con |  -.0047597   .0016512    -2.88   0.005    -.0080411   -.0014783
       _cons |   7.569432   .7000992    10.81   0.000     6.178132    8.960733
------------------------------------------------------------------------------
```

Model 2-5: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

```
. regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi dtp3con gdpmf, r

Linear regression                               Number of obs =      97
                                                F(  9,    87) =   51.42
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8411
                                                Root MSE      =  .31742

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdpmx |  -.4620151    .076091    -6.07   0.000    -.6132542   -.3107759
    giniavni |   .0102165   .0054113     1.89   0.062    -.0005392    .0209721
       ethnl |   .1599439   .1182155     1.35   0.180    -.0750222    .3949099
        musl |   .3119742    .113648     2.75   0.007     .0860864     .537862
     fertwdi |   .0556181   .0353879     1.57   0.120    -.0147191    .1259553
```

```
       lpopd |  -.0745683   .0330776    -2.25   0.027    -.1403137    -.008823
      urbwdi |   -.006414   .0023292    -2.75   0.007    -.0110436   -.0017844
     dtp3con |  -.0047513   .0016746    -2.84   0.006    -.0080797   -.0014228
       gdpmf |  -.0110907   .1601638    -0.07   0.945    -.3294336    .3072521
       _cons |   7.569495   .7043109    10.75   0.000     6.169601    8.969389
------------------------------------------------------------------------------
```

Model 2-5: Robust Check 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)

```
. regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi dtp3con, r

Linear regression                                      Number of obs =      98
                                                       F(  8,    89) =   69.53
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8386
                                                       Root MSE      =  .31654

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    -.45055   .0741761    -6.07   0.000    -.5979363   -.3031636
    giniavni |   .0116219   .0060938     1.91   0.060    -.0004864    .0237302
    ethnannx |   .1381949   .1580238     0.87   0.384    -.1757951    .4521848
        musl |   .3808982   .1183657     3.22   0.002     .1457081    .6160884
     fertwdi |   .0685481   .0304896     2.25   0.027     .0079659    .1291302
       lpopd |  -.0731537   .0363711    -2.01   0.047    -.1454222   -.0008852
      urbwdi |  -.0062715   .0022229    -2.82   0.006    -.0106884   -.0018547
     dtp3con |  -.0053863   .0015418    -3.49   0.001    -.0084499   -.0023227
       _cons |   7.350379   .7119187    10.32   0.000     5.935811    8.764946
------------------------------------------------------------------------------
```

Model 2-5: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

```
. regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi dtp3con ethnannf, r

Linear regression                                      Number of obs =      98
                                                       F(  9,    88) =   61.03
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8397
                                                       Root MSE      =  .31726

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4705159   .0824681    -5.71   0.000    -.6344039    -.306628
    giniavni |   .0108138   .0060651     1.78   0.078    -.0012393    .0228668
    ethnannx |   .1238898   .1617308     0.77   0.446    -.1975162    .4452958
        musl |   .3847276   .1177683     3.27   0.002     .1506878    .6187674
     fertwdi |   .0647267   .0310945     2.08   0.040     .0029329    .1265205
       lpopd |  -.0739386   .0362566    -2.04   0.044     -.145991   -.0018861
      urbwdi |   -.005713   .0023455    -2.44   0.017    -.0103741   -.0010519
     dtp3con |  -.0054163   .0015626    -3.47   0.001    -.0085216   -.0023109
    ethnannf |  -.1077232   .1721327    -0.63   0.533    -.4498007    .2343543
       _cons |   7.551218   .7838746     9.63   0.000     5.993432    9.109004
------------------------------------------------------------------------------
```

Table 2.2, Model 2-6: Child Immunization (Measles/MCV) and Infant Mortality

Model 2-6: Bivariate correlations among independent variables

```
. correlate lgdph giniavni ethnl musl fertwdi lpopd urbwdi mcvcon
(obs=98)

             |    lgdph giniavni    ethnl     musl  fertwdi    lpopd   urbwdi   mcvcon
-------------+------------------------------------------------------------------------
       lgdph |   1.0000
    giniavni |   0.0553   1.0000
       ethnl |  -0.4639   0.1837   1.0000
        musl |   0.3037  -0.2999  -0.2504   1.0000
     fertwdi |  -0.6226   0.0745   0.4365   0.1169   1.0000
       lpopd |   0.0816  -0.2807  -0.1644  -0.1579  -0.3660   1.0000
      urbwdi |   0.8128   0.0595  -0.4289   0.2752  -0.5620  -0.0329   1.0000
      mcvcon |   0.4840   0.0387  -0.3921   0.0494  -0.4666   0.1234   0.4005   1.0000
```

Model 2-6: Infant mortality predicted by 7 baseline variables only (same as Model 2-3)

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r

Linear regression                                      Number of obs =     105
                                                       F(  7,    97) =  115.48
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8460
                                                       Root MSE      =  .32809

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5106892   .0728516    -7.01   0.000    -.6552793    -.366099
    giniavni |   .0098456   .0057971     1.70   0.093      -.00166    .0213512
       ethnl |   .2291501   .1208339     1.90   0.061    -.0106718     .468972
        musl |   .3573075   .1090143     3.28   0.001     .1409443    .5736707
     fertwdi |   .0883452   .0306893     2.88   0.005     .0274354    .1492551
       lpopd |  -.0713372   .0317142    -2.25   0.027    -.1342811   -.0083933
      urbwdi |  -.0046217   .0022445    -2.06   0.042    -.0090765   -.0001669
       _cons |   7.311515   .6431156    11.37   0.000     6.035109    8.587922
------------------------------------------------------------------------------
```

Model 2-6: Infant mortality predicted by 7 baseline variables and measles immuniz.

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mcvcon, r

Linear regression                                      Number of obs =      98
                                                       F(  8,    89) =   70.47
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8318
                                                       Root MSE      =  .32308

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4818317   .0730201    -6.60   0.000    -.6269212   -.3367423
    giniavni |   .0111445    .006353     1.75   0.083    -.0014787    .0237677
       ethnl |   .1659513   .1167596     1.42   0.159    -.0660474    .3979501
        musl |   .3699984   .1164028     3.18   0.002     .1387085    .6012882
     fertwdi |   .0676102   .0297072     2.28   0.025     .0085825    .1266378
       lpopd |  -.0796007   .0365054    -2.18   0.032    -.1521362   -.0070652
      urbwdi |  -.0052329   .0022062    -2.37   0.020    -.0096165   -.0008492
      mcvcon |   -.004213   .0016412    -2.57   0.012    -.0074739    -.000952
```

```
       _cons |   7.519909     .65283    11.52   0.000     6.222749    8.817068
------------------------------------------------------------------------------
```

Model 2-6: Means and SDs of measles immunization and infant mortality

```
. summarize imrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
      imrcom |       105    70.13333    45.54712          6        202

. summarize limrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     limrcom |       105    3.985123     .807504   1.791759   5.308268

. summarize mcvcon

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
      mcvcon |        98    71.40816    19.12996         20         98
```

Model 2-6: How much would infant mortality fall if measles immuniz. rose one SD?

```
. estsimp regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mcvcon, r

Linear regression                               Number of obs =      98
                                                F(  8,    89) =   70.47
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8318
                                                Root MSE      =  .32308

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4818317   .0730201    -6.60   0.000    -.6269212   -.3367423
    giniavni |   .0111445    .006353     1.75   0.083    -.0014787    .0237677
       ethnl |   .1659513   .1167596     1.42   0.159    -.0660474    .3979501
        musl |   .3699984   .1164028     3.18   0.002     .1387085    .6012882
     fertwdi |   .0676102   .0297072     2.28   0.025     .0085825    .1266378
       lpopd |  -.0796007   .0365054    -2.18   0.032    -.1521362   -.0070652
      urbwdi |  -.0052329   .0022062    -2.37   0.020    -.0096165   -.0008492
      mcvcon |   -.004213   .0016412    -2.57   0.012    -.0074739    -.000952
       _cons |   7.519909     .65283    11.52   0.000     6.222749    8.817068
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....
% of simulations completed: 11% 22% 33% 44% 55% 66% 77% 88% 100%


Simulating sigma-squared.  Please wait


Number of simulations  : 1000
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9 b10

. setx mean

. simqi, tfunc(exp) fd(ev) changex(mcvcon 71.40816 90.53812)
```

```
First Difference: mcvcon 71.40816 90.53812

      Quantity of Interest |      Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
          dE[exp(limrcom)] |  -4.538882     1.870991    -8.133821    -.666523
```

Model 2-6: Robustness checks

Model 2-6: Robust Check 1.1: Change specification: Exclude fertility

```
. regress limrcom lgdph giniavni ethnl musl lpopd urbwdi mcvcon, r

Linear regression                                      Number of obs =      98
                                                       F(  7,    90) =   79.09
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8240
                                                       Root MSE      =   .3287

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5326743   .0672043    -7.93   0.000    -.6661875   -.3991611
    giniavni |   .0129921   .0064316     2.02   0.046     .0002145    .0257696
       ethnl |   .2096368   .1212468     1.73   0.087    -.0312412    .4505148
        musl |   .4696138   .1110563     4.23   0.000     .2489811    .6902466
       lpopd |   -.095601    .035213    -2.71   0.008    -.1655578   -.0256442
      urbwdi |   -.006362   .0022806    -2.79   0.006    -.0108928   -.0018311
      mcvcon |  -.0049044   .0016365    -3.00   0.004    -.0081556   -.0016532
       _cons |   8.269234   .5371021    15.40   0.000     7.202187    9.336281
------------------------------------------------------------------------------
```

Model 2-6: Robust Check 1.2: Change specification: Include mean years of female school

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mcvcon mysfx, r

Linear regression                                      Number of obs =      98
                                                       F(  9,    88) =   61.95
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8485
                                                       Root MSE      =  .30835

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4253266    .072495    -5.87   0.000    -.5693952   -.2812579
    giniavni |   .0110786   .0063756     1.74   0.086    -.0015916    .0237487
       ethnl |   .0980945   .1131555     0.87   0.388    -.1267783    .3229674
        musl |   .2369608   .1139951     2.08   0.041     .0104194    .4635021
     fertwdi |   .0150071   .0315035     0.48   0.635    -.0475995    .0776137
       lpopd |  -.0939817   .0385635    -2.44   0.017    -.1706185   -.0173449
      urbwdi |  -.0040946   .0022108    -1.85   0.067    -.0084881     .000299
      mcvcon |  -.0036161   .0016424    -2.20   0.030      -.00688   -.0003522
       mysfx |  -.0865034   .0263832    -3.28   0.001    -.1389344   -.0340725
       _cons |     7.6729   .6763317    11.34   0.000     6.328833    9.016967
------------------------------------------------------------------------------
```

Model 2-6: Robust Check 1.3: Change specification: Include female literacy

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mcvcon litfewdi, r

Linear regression                                       Number of obs =      98
                                                        F(  9,    88) =   59.32
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8413
                                                        Root MSE      =  .31565

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4576009    .070376    -6.50   0.000    -.5974584   -.3177434
    giniavni |   .0120718   .0066181     1.82   0.072    -.0010804     .025224
       ethnl |   .0950869   .1116487     0.85   0.397    -.1267915    .3169653
        musl |   .2557481   .1183415     2.16   0.033     .0205692     .490927
     fertwdi |   .0206665   .0343514     0.60   0.549    -.0475997    .0889328
       lpopd |  -.0913311   .0380302    -2.40   0.018    -.1669081    -.015754
      urbwdi |  -.0045021   .0022575    -1.99   0.049    -.0089885   -.0000157
      mcvcon |  -.0034376   .0016441    -2.09   0.039    -.0067048   -.0001704
    litfewdi |  -.0052693   .0020899    -2.52   0.013    -.0094225   -.0011161
       _cons |   7.823455   .6688517    11.70   0.000     6.494253    9.152658
------------------------------------------------------------------------------
```

Model 2-6: Robust Check 1.4: Change specification: Include geographical variables

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mcvcon airdist popcrgs latcapab, r

Linear regression                                       Number of obs =      98
                                                        F( 11,    86) =   50.30
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8442
                                                        Root MSE      =  .31636

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4495234   .0717794    -6.26   0.000    -.5922161   -.3068306
    giniavni |   .0119748   .0056487     2.12   0.037     .0007456    .0232041
       ethnl |   .2297485   .1130619     2.03   0.045     .0049889    .4545081
        musl |   .2594311   .1364395     1.90   0.061    -.0118016    .5306637
     fertwdi |   .0776822   .0324875     2.39   0.019     .0130992    .1422652
       lpopd |  -.0577068   .0331906    -1.74   0.086    -.1236874    .0082739
      urbwdi |  -.0050731   .0020858    -2.43   0.017    -.0092195   -.0009267
      mcvcon |  -.0050794   .0016447    -3.09   0.003    -.0083489   -.0018099
     airdist |  -4.64e-06   .0000182    -0.25   0.800    -.0000408    .0000316
     popcrgs |  -.0014505   .0011128    -1.30   0.196    -.0036626    .0007617
    latcapab |   .0077999   .0037781     2.06   0.042     .0002891    .0153106
       _cons |    7.11393   .5973738    11.91   0.000      5.92639     8.30147
------------------------------------------------------------------------------
```

Model 2-6: Robust Check 1.5: Change specification: Include regional dummy variables

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mcvcon afri lati east sout, r

Linear regression                                       Number of obs =      98
                                                        F( 12,    85) =   45.79
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8363
                                                        Root MSE      =  .32613
```

limrcom	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
lgdph	-.5095128	.0768275	-6.63	0.000	-.6622665	-.3567591
giniavni	.0142775	.0063748	2.24	0.028	.0016026	.0269524
ethnl	.1228396	.138754	0.89	0.378	-.1530405	.3987197
musl	.2404962	.1129636	2.13	0.036	.0158943	.4650981
fertwdi	.0572344	.0355156	1.61	0.111	-.0133802	.1278489
lpopd	-.0861142	.0370933	-2.32	0.023	-.1598657	-.0123627
urbwdi	-.0039628	.0026973	-1.47	0.145	-.0093257	.0014002
mcvcon	-.0047988	.0017977	-2.67	0.009	-.0083731	-.0012244
afri	-.140928	.1205658	-1.17	0.246	-.380645	.0987891
lati	-.2406279	.149636	-1.61	0.112	-.5381444	.0568885
east	-.1416555	.1627179	-0.87	0.386	-.4651824	.1818713
sout	.007814	.1941054	0.04	0.968	-.3781194	.3937475
_cons	7.824985	.6677391	11.72	0.000	6.49734	9.152629

Model 2-6: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mcvcon gdphf giniavnf ethnlf, r

Linear regression                                      Number of obs =      98
                                                       F( 10,    87) =   54.80
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8395
                                                       Root MSE      =  .31922
```

limrcom	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
lgdph	-.4711844	.0725067	-6.50	0.000	-.6152993	-.3270695
giniavni	.0079626	.0064358	1.24	0.219	-.0048292	.0207543
ethnl	.1382775	.1180081	1.17	0.244	-.0962764	.3728315
musl	.35308	.1147192	3.08	0.003	.1250633	.5810968
fertwdi	.084166	.0304036	2.77	0.007	.0237356	.1445965
lpopd	-.0805874	.0344867	-2.34	0.022	-.1491334	-.0120415
urbwdi	-.0043749	.0023265	-1.88	0.063	-.0089991	.0002493
mcvcon	-.003408	.0017227	-1.98	0.051	-.0068321	.0000161
gdphf	(dropped)					
giniavnf	-.0055193	.0826346	-0.07	0.947	-.1697645	.158726
ethnlf	-.3101672	.1833002	-1.69	0.094	-.6744962	.0541618
_cons	7.442414	.6029995	12.34	0.000	6.243887	8.64094

Model 2-6: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mcvcon

   Huber iteration 1:  maximum difference in weights = .57194139
   Huber iteration 2:  maximum difference in weights = .07594531
   Huber iteration 3:  maximum difference in weights = .01951453
Biweight iteration 4:  maximum difference in weights = .20063055
Biweight iteration 5:  maximum difference in weights = .06444671
Biweight iteration 6:  maximum difference in weights = .02114381
Biweight iteration 7:  maximum difference in weights = .01504065
Biweight iteration 8:  maximum difference in weights = .00303635

Robust regression                                      Number of obs =      98
                                                       F(  8,    89) =   50.44
```

```
                                                      Prob > F      =  0.0000

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4686901   .0781641    -6.00   0.000    -.6240004   -.3133797
    giniavni |   .0151531   .0049041     3.09   0.003     .0054087    .0248975
       ethnl |   .1951078   .1351686     1.44   0.152    -.0734693     .463685
        musl |    .407195   .1168812     3.48   0.001     .1749546    .6394353
     fertwdi |   .0709203   .0348324     2.04   0.045     .0017091    .1401316
       lpopd |  -.0427949   .0282227    -1.52   0.133    -.0988728     .013283
      urbwdi |  -.0057505   .0026558    -2.17   0.033    -.0110275   -.0004736
      mcvcon |  -.0051134   .0021647    -2.36   0.020    -.0094146   -.0008123
       _cons |   7.155746   .6201872    11.54   0.000     5.923447    8.388045
------------------------------------------------------------------------------
```

Model 2-6: Robust Check 3.2: Outlier checks: Median regression

```
. qreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mcvcon
Iteration  1:  WLS sum of weighted deviations =  24.003039

Iteration  1: sum of abs. weighted deviations =  24.015558
Iteration  2: sum of abs. weighted deviations =  23.846776
Iteration  3: sum of abs. weighted deviations =  23.776935
Iteration  4: sum of abs. weighted deviations =  23.461552
Iteration  5: sum of abs. weighted deviations =  23.402355
Iteration  6: sum of abs. weighted deviations =  23.376691
Iteration  7: sum of abs. weighted deviations =  23.369758
Iteration  8: sum of abs. weighted deviations =  23.369539
Iteration  9: sum of abs. weighted deviations =  23.353291
Iteration 10: sum of abs. weighted deviations =  23.347451
Iteration 11: sum of abs. weighted deviations =  23.330011
Iteration 12: sum of abs. weighted deviations =  23.325544
Iteration 13: sum of abs. weighted deviations =  23.319282
Iteration 14: sum of abs. weighted deviations =  23.317398
Iteration 15: sum of abs. weighted deviations =  23.309886
Iteration 16: sum of abs. weighted deviations =  23.307252
Iteration 17: sum of abs. weighted deviations =  23.306096

Median regression                                     Number of obs =        98
  Raw sum of deviations 59.91331 (about 4.1271343)
  Min sum of deviations  23.3061                      Pseudo R2     =    0.6110

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4623039   .0733271    -6.30   0.000    -.6080034   -.3166045
    giniavni |   .0136654    .004659     2.93   0.004     .0044081    .0229227
       ethnl |   .1303989    .133112     0.98   0.330    -.1340918    .3948895
        musl |   .3273406   .1095812     2.99   0.004     .1096051    .5450761
     fertwdi |   .0762649   .0340677     2.24   0.028     .0085732    .1439567
       lpopd |  -.0350957   .0273862    -1.28   0.203    -.0895114      .01932
      urbwdi |  -.0066472   .0023788    -2.79   0.006    -.0113738   -.0019205
      mcvcon |  -.0044201   .0020381    -2.17   0.033    -.0084698   -.0003704
       _cons |     7.1712   .5976953    12.00   0.000     5.983592    8.358808
------------------------------------------------------------------------------
```

Model 2-6: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mcvcon if ctry ~= "Mongolia" & ctry
~= "Cuba", r
```

```
Linear regression                                       Number of obs =      96
                                                        F(  8,    87) =   67.11
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8478
                                                        Root MSE      =  .30212

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5014962   .0679755    -7.38   0.000    -.6366048   -.3663876
    giniavni |   .0128617   .0052312     2.46   0.016      .002464    .0232593
       ethnl |   .2000497   .1122795     1.78   0.078     -.023118    .4232175
        musl |   .4136997   .1014485     4.08   0.000     .2120599    .6153396
     fertwdi |   .0653094   .0282819     2.31   0.023      .009096    .1215227
       lpopd |  -.0508177   .0270569    -1.88   0.064    -.1045963    .0029609
      urbwdi |  -.0045092   .0020832    -2.16   0.033    -.0086498   -.0003687
      mcvcon |  -.0045577   .0014548    -3.13   0.002    -.0074493    -.001666
       _cons |   7.467374   .5367951    13.91   0.000     6.400436    8.534313
------------------------------------------------------------------------------
```

Model 2-6: Robust Ck 4.1: Endog ck: Corr cand. inst (fertwdin) & hyp endg reg (fertwdi)

```
. correlate fertwdi fertwdin
(obs=105)

             |  fertwdi fertwdin
-------------+------------------
     fertwdi |   1.0000
    fertwdin |   0.6135   1.0000
```

Model 2-6: Robust Ck 4.2: Endog ck: Does CI predict HER in presence of exog regressors?

```
. ivreg limrcom lgdph giniavni ethnl musl (fertwdi = fertwdin) lpopd urbwdi mcvcon, first

First-stage regressions
-----------------------

      Source |       SS       df       MS              Number of obs =      98
-------------+------------------------------           F(  8,    89) =   26.92
       Model |  180.951765     8  22.6189706           Prob > F      =  0.0000
    Residual |  74.7678284    89  .840087959           R-squared     =  0.7076
-------------+------------------------------           Adj R-squared =  0.6813
       Total |  255.719593    97  2.63628446           Root MSE      =  .91656

------------------------------------------------------------------------------
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4325741   .2093384    -2.07   0.042     -.848525   -.0166231
    giniavni |   .0237618   .0130145     1.83   0.071    -.0020978    .0496213
       ethnl |   .1674854   .3730314     0.45   0.655      -.57372    .9086909
        musl |   .8927095   .3074297     2.90   0.005     .2818532    1.503566
       lpopd |  -.2569396   .0730232    -3.52   0.001    -.4020352   -.1118441
      urbwdi |  -.0222909   .0070916    -3.14   0.002    -.0363818   -.0082001
      mcvcon |  -.0098446   .0057676    -1.71   0.091    -.0213047    .0016155
    fertwdin |   .3314625   .0676951     4.90   0.000     .1969538    .4659713
       _cons |   7.939033   1.459826     5.44   0.000      5.03839    10.83968
------------------------------------------------------------------------------
```

Model 2-6: Robust Check 4.3: Endog ck: 2SLS using fertwdin as instrument for fertwdi

```
Instrumental variables (2SLS) regression

      Source |       SS       df       MS              Number of obs =      98
-------------+------------------------------           F(  8,    89) =   54.42
       Model |  45.9240564     8  5.74050705           Prob > F      =  0.0000
    Residual |  9.31513782    89   .10466447           R-squared     =  0.8314
-------------+------------------------------           Adj R-squared =  0.8162
       Total |  55.2391942    97  .569476229           Root MSE      =  .32352

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
     fertwdi |   .0513602   .0720875     0.71   0.478    -.0918762    .1945965
       lgdph |  -.4940517   .0887029    -5.57   0.000    -.6703024   -.3178009
    giniavni |   .0115886   .0049917     2.32   0.023     .0016702    .0215069
       ethnl |   .1764511   .1353352     1.30   0.196    -.0924571    .4453593
        musl |   .3939408   .1459589     2.70   0.008     .1039236    .6839581
       lpopd |  -.0834464   .0308748    -2.70   0.008    -.1447939   -.0220989
      urbwdi |  -.0055042   .0027482    -2.00   0.048    -.0109649   -.0000436
      mcvcon |  -.0043791    .002165    -2.02   0.046    -.0086809   -.0000774
       _cons |   7.700008   .9232867     8.34   0.000     5.865457    9.534559
------------------------------------------------------------------------------
Instrumented:  fertwdi
Instruments:   lgdph giniavni ethnl musl lpopd urbwdi mcvcon fertwdin
------------------------------------------------------------------------------
```

Model 2-6: Robust Check 4.4: Endog ck: Hausman test for diff btw coeff of OLS & of 2SLS

```
. estimates store imrmcv

. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mcvcon

      Source |       SS       df       MS              Number of obs =      98
-------------+------------------------------           F(  8,    89) =   55.02
       Model |  45.9491183     8  5.74363979           Prob > F      =  0.0000
    Residual |  9.29007589    89  .104382875           R-squared     =  0.8318
-------------+------------------------------           Adj R-squared =  0.8167
       Total |  55.2391942    97  .569476229           Root MSE      =  .32308

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4818317   .0744192    -6.47   0.000    -.6297011   -.3339624
    giniavni |   .0111445   .0046692     2.39   0.019      .001867     .020422
       ethnl |   .1659513   .1286926     1.29   0.201    -.0897582    .4216609
        musl |   .3699984   .1112814     3.32   0.001     .1488847    .5911121
     fertwdi |   .0676102   .0331636     2.04   0.044     .0017148    .1335055
       lpopd |  -.0796007   .0268705    -2.96   0.004    -.1329919   -.0262095
      urbwdi |  -.0052329   .0025285    -2.07   0.041     -.010257   -.0002087
      mcvcon |   -.004213    .002061    -2.04   0.044     -.008308   -.0001179
       _cons |   7.519909   .5904739    12.74   0.000     6.346649    8.693168
------------------------------------------------------------------------------

. hausman imrmcv

                 ---- Coefficients ----
              |      (b)          (B)            (b-B)     sqrt(diag(V_b-V_B))
              |     imrmcv         .          Difference          S.E.
--------------+----------------------------------------------------------------
     fertwdi |    .0513602     .0676102        -.01625        .0640061
       lgdph |   -.4940517    -.4818317       -.0122199        .0482699
    giniavni |    .0115886     .0111445        .0004441        .0017652
       ethnl |    .1764511     .1659513        .0104998        .0418787
```

```
        musl |    .3939408     .3699984        .0239425        .0944482
       lpopd |   -.0834464    -.0796007       -.0038457        .0152061
      urbwdi |   -.0055042    -.0052329       -.0002714        .0010766
      mcvcon |   -.0043791     -.004213       -.0001662         .000663
------------------------------------------------------------------------------
                           b = consistent under Ho and Ha; obtained from ivreg
            B = inconsistent under Ha, efficient under Ho; obtained from regress

    Test:  Ho:  difference in coefficients not systematic

                  chi2(8) = (b-B)'[(V_b-V_B)^(-1)](b-B)
                          =        0.06
                Prob>chi2 =      1.0000
```

Model 2-6: Robust Check 5.1: DepV: change IMR to U5MR (limrcom to lu5mrcom)

```
. regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mcvcon, r

Linear regression                                       Number of obs =      98
                                                        F(  8,    89) =   77.02
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8344
                                                        Root MSE      =  .36936

------------------------------------------------------------------------------
             |               Robust
    lu5mrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5075985    .088139    -5.76   0.000    -.6827287   -.3324682
    giniavni |   .0093977   .0069343     1.36   0.179    -.0043806     .023176
       ethnl |   .2480113   .1407682     1.76   0.082     -.031692    .5277147
        musl |   .3078298   .1301361     2.37   0.020      .049252    .5664075
     fertwdi |   .1074158   .0351261     3.06   0.003      .037621    .1772105
       lpopd |  -.0923903   .0396904    -2.33   0.022    -.1712544   -.0135262
      urbwdi |  -.0059023   .0026317    -2.24   0.027    -.0111315   -.0006731
      mcvcon |  -.0040306   .0018075    -2.23   0.028    -.0076221   -.0004392
       _cons |   7.959804   .7812034    10.19   0.000      6.40757    9.512039
------------------------------------------------------------------------------
```

Model 2-6: Robust Check 5.2: DepV: Vary source: infant mortality (limrcom to limrwdi)

```
. regress limrwdi lgdph giniavni ethnl musl fertwdi lpopd urbwdi mcvcon, r

Linear regression                                       Number of obs =      98
                                                        F(  8,    89) =   74.28
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8512
                                                        Root MSE      =  .30046

------------------------------------------------------------------------------
             |               Robust
     limrwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4741152   .0689473    -6.88   0.000    -.6111121   -.3371184
    giniavni |   .0125472    .005593     2.24   0.027     .0014341    .0236604
       ethnl |   .1123197   .1063406     1.06   0.294    -.0989769    .3236162
        musl |   .3022727   .1102341     2.74   0.007     .0832399    .5213056
     fertwdi |   .0894336   .0284028     3.15   0.002     .0329979    .1458694
       lpopd |    -.05353   .0273517    -1.96   0.053    -.1078773    .0008173
      urbwdi |  -.0050396   .0022052    -2.29   0.025    -.0094214   -.0006578
      mcvcon |  -.0041782   .0015009    -2.78   0.007    -.0071604   -.0011959
       _cons |   7.234737   .5905577    12.25   0.000     6.061311    8.408162
```

Model 2-6: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)

```
. regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi mcvcon, r

Linear regression                                       Number of obs =      97
                                                        F(  8,    88) =   59.63
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8352
                                                        Root MSE      =  .32141

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |  -.4902006   .0755902    -6.48   0.000    -.6404202    -.339981
    giniavni |   .0102875   .0054666     1.88   0.063    -.0005762    .0211511
       ethnl |   .1567806   .1154113     1.36   0.178    -.0725752    .3861363
        musl |    .294108   .1111278     2.65   0.010     .0732649    .5149511
     fertwdi |   .0599081   .0338022     1.77   0.080    -.0072667    .1270828
       lpopd |  -.0779848   .0294859    -2.64   0.010    -.1365818   -.0193877
      urbwdi |  -.0057825   .0021742    -2.66   0.009    -.0101032   -.0014617
      mcvcon |  -.0036618   .0018089    -2.02   0.046    -.0072566   -.0000669
       _cons |   7.669485   .6879495    11.15   0.000      6.30233     9.03664
------------------------------------------------------------------------------
```

Model 2-6: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

```
. regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi mcvcon gdpmf, r

Linear regression                                       Number of obs =      97
                                                        F(  9,    87) =   52.74
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8353
                                                        Root MSE      =  .32317

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |   -.486946   .0777993    -6.26   0.000    -.6415805   -.3323115
    giniavni |   .0102295   .0055148     1.85   0.067    -.0007318    .0211907
       ethnl |   .1614621   .1168084     1.38   0.170    -.0707072    .3936314
        musl |   .2939406   .1114284     2.64   0.010     .0724646    .5154165
     fertwdi |   .0581365   .0355635     1.63   0.106    -.0125498    .1288228
       lpopd |  -.0798809    .032032    -2.49   0.015    -.1435479   -.0162139
      urbwdi |  -.0059655    .002371    -2.52   0.014    -.0106781   -.0012528
      mcvcon |   -.003651   .0018197    -2.01   0.048    -.0072679    -.000034
       gdpmf |  -.0457223   .1667707    -0.27   0.785    -.3771971    .2857526
       _cons |   7.669486   .6925302    11.07   0.000     6.293007    9.045964
------------------------------------------------------------------------------
```

Model 2-6: Robust Check 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)

```
. regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi mcvcon, r

Linear regression                                       Number of obs =      98
                                                        F(  8,    89) =   72.14
                                                        Prob > F      =  0.0000
```

```
                                                R-squared     =  0.8304
                                                Root MSE      =   .3244

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4749089   .0765901    -6.20   0.000    -.6270919   -.3227259
    giniavni |   .0116827   .0062614     1.87   0.065    -.0007586    .024124
    ethnannx |   .1528282   .1558741     0.98   0.330    -.1568902    .4625467
        musl |   .3650308   .1170398     3.12   0.002     .1324752    .5975863
     fertwdi |   .0745826   .0306036     2.44   0.017     .0137739    .1353912
       lpopd |  -.0770196   .0358866    -2.15   0.035    -.1483255   -.0057137
      urbwdi |  -.0056658   .0022857    -2.48   0.015    -.0102074   -.0011243
      mcvcon |  -.0040726   .0017697    -2.30   0.024    -.0075889   -.0005563
       _cons |   7.389173   .7108193    10.40   0.000      5.97679    8.801556
------------------------------------------------------------------------------
```

Model 2-6: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

```
. regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi mcvcon ethnannf, r

Linear regression                               Number of obs =      98
                                                F(  9,    88) =   63.18
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8318
                                                Root MSE      =  .32494

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4969176   .0855028    -5.81   0.000    -.6668365   -.3269987
    giniavni |    .010792   .0061855     1.74   0.085    -.0015003    .0230843
    ethnannx |   .1342742   .1608082     0.83   0.406    -.1852983    .4538467
        musl |   .3689137   .1166168     3.16   0.002     .1371623    .6006651
     fertwdi |   .0700126   .0313818     2.23   0.028     .0076479    .1323773
       lpopd |  -.0779892   .0357194    -2.18   0.032    -.1489741   -.0070044
      urbwdi |  -.0050356   .0024278    -2.07   0.041    -.0098603    -.000211
      mcvcon |  -.0042097   .0018091    -2.33   0.022     -.007805   -.0006144
    ethnannf |  -.1206456   .1758905    -0.69   0.495     -.470191    .2288997
       _cons |   7.621211   .7980288     9.55   0.000     6.035297    9.207126
------------------------------------------------------------------------------
```

Table 2.2, Model 2-7: Mean Years of Female Schooling and Infant Mortality

Model 2-7: Bivariate correlations among independent variables

```
. correlate lgdph giniavni ethnl musl fertwdi lpopd urbwdi mysfx
(obs=105)

             |    lgdph giniavni    ethnl     musl  fertwdi    lpopd   urbwdi    mysfx
-------------+------------------------------------------------------------------------
       lgdph |   1.0000
    giniavni |  -0.0275   1.0000
       ethnl |  -0.4711   0.2512   1.0000
        musl |   0.2810  -0.2888  -0.2869   1.0000
     fertwdi |  -0.6581   0.1486   0.4352   0.1280   1.0000
       lpopd |   0.2105  -0.3196  -0.1984  -0.1269  -0.4301   1.0000
      urbwdi |   0.8313  -0.0237  -0.4315   0.2495  -0.6012   0.1290   1.0000
       mysfx |   0.6837   0.0183  -0.4249  -0.1713  -0.7968   0.2252   0.6413   1.0000
```

Model 2-7: Infant mortality predicted by 7 baseline variables only (same as Model 2-3)

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r

Linear regression                                       Number of obs =     105
                                                        F(  7,    97) =  115.48
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8460
                                                        Root MSE      =  .32809

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5106892   .0728516    -7.01   0.000    -.6552793    -.366099
    giniavni |   .0098456   .0057971     1.70   0.093      -.00166    .0213512
       ethnl |   .2291501   .1208339     1.90   0.061    -.0106718     .468972
        musl |   .3573075   .1090143     3.28   0.001     .1409443    .5736707
     fertwdi |   .0883452   .0306893     2.88   0.005     .0274354    .1492551
       lpopd |  -.0713372   .0317142    -2.25   0.027    -.1342811   -.0083933
      urbwdi |  -.0046217   .0022445    -2.06   0.042    -.0090765   -.0001669
       _cons |   7.311515   .6431156    11.37   0.000     6.035109    8.587922
------------------------------------------------------------------------------
```

Model 2-7: Infant mortality predicted by 7 baseline var. and mean years female schooling

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mysfx, r

Linear regression                                       Number of obs =     105
                                                        F(  8,    96) =  104.97
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8645
                                                        Root MSE      =  .30943

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4394319   .0730844    -6.01   0.000    -.5845032   -.2943605
    giniavni |   .0102644   .0056537     1.82   0.073     -.000958    .0214868
       ethnl |   .1452183   .1168031     1.24   0.217    -.0866341    .3770707
        musl |   .2080264   .1078493     1.93   0.057    -.0060528    .4221056
     fertwdi |   .0247426   .0322253     0.77   0.444    -.0392242    .0887094
       lpopd |   -.087717   .0329019    -2.67   0.009    -.1530267   -.0224074
      urbwdi |   -.003442   .0021556    -1.60   0.114    -.0077208    .0008367
       mysfx |  -.0988089   .0264245    -3.74   0.000     -.151261   -.0463568
       _cons |   7.487967   .6560812    11.41   0.000     6.185656    8.790278
------------------------------------------------------------------------------
```

Model 2-7: Means and SDs of mean years of female schooling and infant mortality

```
. summarize imrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
      imrcom |       105    70.13333    45.54712          6        202

. summarize limrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
```

```
     limrcom |       105    3.985123     .807504   1.791759   5.308268

summarize mysfx

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       mysfx |       105     3.64511    2.209273   .1377345      9.045
```

Model 2-7: How much would infant mortality fall if female schooling rose one SD?

```
. estsimp regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mysfx, r

Linear regression                                      Number of obs =     105
                                                       F(  8,    96) =  104.97
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8645
                                                       Root MSE      =  .30943

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4394319   .0730844    -6.01   0.000    -.5845032   -.2943605
    giniavni |   .0102644   .0056537     1.82   0.073     -.000958    .0214868
       ethnl |   .1452183   .1168031     1.24   0.217    -.0866341    .3770707
        musl |   .2080264   .1078493     1.93   0.057    -.0060528    .4221056
     fertwdi |   .0247426   .0322253     0.77   0.444    -.0392242    .0887094
       lpopd |   -.087717   .0329019    -2.67   0.009    -.1530267   -.0224074
      urbwdi |   -.003442   .0021556    -1.60   0.114    -.0077208    .0008367
       mysfx |  -.0988089   .0264245    -3.74   0.000     -.151261   -.0463568
       _cons |   7.487967   .6560812    11.41   0.000     6.185656    8.790278
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....
% of simulations completed: 11% 22% 33% 44% 55% 66% 77% 88% 100%


Simulating sigma-squared.  Please wait


Number of simulations  : 1000
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9 b10

. setx mean

. simqi, tfunc(exp) fd(ev) changex(mysfx 3.64511 5.854383)

First Difference: mysfx 3.64511 5.854383

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+-----------------------------------------------
          dE[exp(limrcom)] |  -10.97422     2.724867    -15.90924   -5.307392
```

Model 2-7: How much of a rise in female schooling would reduce IMR from 54 to 49?

```
  simqi, tfunc(exp) fd(ev) changex(mysfx 3.64511 4.59)

First Difference: mysfx 3.64511 4.59

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+-----------------------------------------------
```

```
dE[exp(limrcom)] |   -5.00255     1.523502     -7.99328   -1.947559
```

Model 2-7: Robustness checks

Model 2-7: Robust Check 1.1: Change specification: Exclude fertility

```
. regress limrcom lgdph giniavni ethnl musl lpopd urbwdi mysfx, r

Linear regression                                       Number of obs =     105
                                                        F(  7,    97) =  119.40
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8638
                                                        Root MSE      =  .30861

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4490615   .0682453    -6.58   0.000    -.5845095   -.3136135
    giniavni |   .0108038   .0056868     1.90   0.060    -.0004829    .0220905
       ethnl |   .1529662   .1162726     1.32   0.191    -.0778028    .3837351
        musl |   .2235355   .1071242     2.09   0.040     .0109237    .4361473
       lpopd |  -.0928482   .0324748    -2.86   0.005    -.1573018   -.0283946
      urbwdi |  -.0035853   .0021989    -1.63   0.106    -.0079496    .0007789
       mysfx |  -.1083019   .0230617    -4.70   0.000     -.154073   -.0625309
       _cons |   7.709816   .5453904    14.14   0.000     6.627367    8.792265
------------------------------------------------------------------------------
```

Model 2-7: Robust Check 1.3: Change specification: Female literacy instead of fem school

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi litfewdi, r

Linear regression                                       Number of obs =     105
                                                        F(  8,    96) =   93.98
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8591
                                                        Root MSE      =  .31554

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4711799   .0696191    -6.77   0.000    -.6093728    -.332987
    giniavni |   .0108956   .0058049     1.88   0.064     -.000627    .0224182
       ethnl |   .1222384   .1149715     1.06   0.290    -.1059782    .3504549
        musl |   .2193586   .1115385     1.97   0.052    -.0020435    .4407606
     fertwdi |   .0252703   .0347329     0.73   0.469     -.043674    .0942146
       lpopd |  -.0900247   .0326033    -2.76   0.007    -.1547418   -.0253075
      urbwdi |  -.0040371   .0022305    -1.81   0.073    -.0084646    .0003904
    litfewdi |  -.0065319   .0020506    -3.19   0.002    -.0106023   -.0024616
       _cons |   7.746576   .6527258    11.87   0.000     6.450925    9.042226
------------------------------------------------------------------------------
```

Model 2-7: Robust Check 1.4: Change specification: Include geographical variables

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mysfx airdist popcrgs latcapab, r

Linear regression                                       Number of obs =     105
                                                        F( 11,    93) =   79.25
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8739
```

```
                                                      Root MSE      =  .30327

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4284521   .0705824    -6.07   0.000    -.5686148   -.2882894
    giniavni |   .0107677   .0052106     2.07   0.042     .0004205    .0211149
       ethnl |   .1736476   .1063878     1.63   0.106    -.0376174    .3849127
        musl |   .1192898   .1159544     1.03   0.306    -.1109727    .3495523
     fertwdi |   .0292982   .0377205     0.78   0.439    -.0456073    .1042037
       lpopd |  -.0708447   .0306482    -2.31   0.023    -.1317059   -.0099835
      urbwdi |  -.0028141   .0020826    -1.35   0.180    -.0069497    .0013216
       mysfx |  -.1107011   .0270186    -4.10   0.000    -.1643547   -.0570476
     airdist |   8.93e-06   .0000173     0.52   0.606    -.0000253    .0000432
     popcrgs |  -.0009706   .0010001    -0.97   0.334    -.0029566    .0010155
    latcapab |   .0072779   .0035384     2.06   0.043     .0002513    .0143046
       _cons |   7.191878    .616037    11.67   0.000      5.96855    8.415205
------------------------------------------------------------------------------
```

Model 2-7: Robust Check 1.5: Change specification: Include regional dummy variables

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mysfx afri lati east sout, r

Linear regression                                      Number of obs =     105
                                                       F( 12,    92) =   74.17
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8657
                                                       Root MSE      =  .31463

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4612023   .0772146    -5.97   0.000    -.6145572   -.3078475
    giniavni |   .0120573   .0057382     2.10   0.038     .0006608    .0234539
       ethnl |   .1349658   .1409293     0.96   0.341     -.144932    .4148636
        musl |   .1750252   .1106946     1.58   0.117    -.0448239    .3948743
     fertwdi |   .0307933   .0386506     0.80   0.428    -.0459701    .1075566
       lpopd |  -.0906438    .035071    -2.58   0.011    -.1602978   -.0209898
      urbwdi |  -.0024965   .0024326    -1.03   0.307    -.0073278    .0023349
       mysfx |  -.0985915   .0266889    -3.69   0.000     -.151598    -.045585
        afri |  -.0669366   .1082614    -0.62   0.538    -.2819531    .1480799
        lati |  -.0722825   .1465803    -0.49   0.623    -.3634037    .2188386
        east |   .0078177   .1439107     0.05   0.957    -.2780014    .2936368
        sout |   .0515537   .2011324     0.26   0.798    -.3479125     .45102
       _cons |   7.561706    .694574    10.89   0.000     6.182222     8.94119
------------------------------------------------------------------------------
```

Model 2-7: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mysfx gdphf giniavnf ethnlf, r

Linear regression                                      Number of obs =     105
                                                       F( 10,    93) =       .
                                                       Prob > F      =       .
                                                       R-squared     =  0.8732
                                                       Root MSE      =  .30402

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
```

```
-------------+----------------------------------------------------------------
       lgdph |  -.4243832   .0702976    -6.04   0.000    -.5639803   -.2847861
    giniavni |   .0068741   .0056628     1.21   0.228    -.0043711    .0181192
       ethnl |   .1097177   .1173226     0.94   0.352    -.1232618    .3426972
        musl |   .1837597   .1097477     1.67   0.097    -.0341775     .401697
     fertwdi |   .0422303   .0320892     1.32   0.191    -.0214925    .1059531
       lpopd |  -.0909584   .0316006    -2.88   0.005    -.1537109   -.0282059
      urbwdi |   -.002285   .0022887    -1.00   0.321    -.0068299      .00226
       mysfx |  -.0991721   .0267562    -3.71   0.000    -.1523046   -.0460397
       gdphf |  -.1804841    .110599    -1.63   0.106    -.4001119    .0391437
    giniavnf |  -.0371927   .0708489    -0.52   0.601    -.1778844    .1034991
      ethnlf |  -.3299648   .1777008    -1.86   0.066    -.6828435    .0229138
       _cons |   7.450614   .5923637    12.58   0.000     6.274297    8.626931
------------------------------------------------------------------------------
```

Model 2-7: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mysfx

   Huber iteration 1:  maximum difference in weights = .56393386
   Huber iteration 2:  maximum difference in weights = .05949397
   Huber iteration 3:  maximum difference in weights = .02882206
Biweight iteration 4:  maximum difference in weights = .18160751
Biweight iteration 5:  maximum difference in weights = .04825816
Biweight iteration 6:  maximum difference in weights = .00644188

Robust regression                                     Number of obs =     105
                                                      F(  8,    96) =   71.81
                                                      Prob > F      =  0.0000

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4258007   .0742062    -5.74   0.000    -.5730989   -.2785025
    giniavni |   .0121641   .0041757     2.91   0.004     .0038753    .0204528
       ethnl |   .1533007    .124352     1.23   0.221     -.093536    .4001374
        musl |   .2178585   .1136216     1.92   0.058    -.0076786    .4433955
     fertwdi |   .0232233    .036581     0.63   0.527    -.0493894     .095836
       lpopd |  -.0684253   .0243292    -2.81   0.006    -.1167184   -.0201322
      urbwdi |  -.0036973   .0024012    -1.54   0.127    -.0084636    .0010691
       mysfx |  -.1080472    .028242    -3.83   0.000    -.1641071   -.0519873
       _cons |   7.271462   .5669205    12.83   0.000     6.146134    8.39679
------------------------------------------------------------------------------
```

Model 2-7: Robust Check 3.2: Outlier checks: Median regression

```
. qreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mysfx
Iteration  1:  WLS sum of weighted deviations =  24.892472

Iteration  1: sum of abs. weighted deviations =  25.076978
Iteration  2: sum of abs. weighted deviations =  24.986601
Iteration  3: sum of abs. weighted deviations =  24.583801
Iteration  4: sum of abs. weighted deviations =  24.523345
Iteration  5: sum of abs. weighted deviations =   24.47838
Iteration  6: sum of abs. weighted deviations =  24.434342
Iteration  7: sum of abs. weighted deviations =  24.431764
Iteration  8: sum of abs. weighted deviations =  24.430875
Iteration  9: sum of abs. weighted deviations =  24.402042
Iteration 10: sum of abs. weighted deviations =  24.398742
Iteration 11: sum of abs. weighted deviations =  24.395256
Iteration 12: sum of abs. weighted deviations =  24.390162
Iteration 13: sum of abs. weighted deviations =  24.389517
```

```
Median regression                                       Number of obs =       105
  Raw sum of deviations 68.21916 (about 4.1271343)
  Min sum of deviations 24.38952                        Pseudo R2     =    0.6425

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.3884024   .1167056    -3.33   0.001    -.6200612   -.1567436
    giniavni |   .0067594   .0066546     1.02   0.312    -.0064499    .0199687
       ethnl |   .0901683   .1861864     0.48   0.629    -.2794087    .4597454
        musl |     .04828   .1724378     0.28   0.780    -.2940063    .3905663
     fertwdi |   .0215974   .0580384     0.37   0.711    -.0936079    .1368027
       lpopd |  -.1099009   .0381136    -2.88   0.005    -.1855558   -.0342461
      urbwdi |  -.0026631   .0037779    -0.70   0.483    -.0101622    .0048359
       mysfx |  -.1244322    .044613    -2.79   0.006    -.2129884    -.035876
       _cons |   7.477735   .8942458     8.36   0.000     5.702671    9.252799
------------------------------------------------------------------------------
```

Model 2-7: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mysfx if ctry ~= "Mongolia" & ctry
~= "Cuba", r

Linear regression                                       Number of obs =     103
                                                        F(  8,    94) =  104.45
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8822
                                                        Root MSE      =  .28493

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4566192   .0661849    -6.90   0.000    -.5880308   -.3252076
    giniavni |   .0119583   .0044657     2.68   0.009     .0030915    .0208251
       ethnl |   .1712346   .1120085     1.53   0.130    -.0511609       .39363
        musl |   .2403254   .0979747     2.45   0.016     .0457943    .4348564
     fertwdi |    .014323   .0305503     0.47   0.640    -.0463354    .0749813
       lpopd |  -.0645687   .0250014    -2.58   0.011    -.1142096   -.0149278
      urbwdi |  -.0028488   .0020455    -1.39   0.167    -.0069101    .0012126
       mysfx |  -.1085279   .0246644    -4.40   0.000    -.1574996   -.0595561
       _cons |   7.496368   .5355737    14.00   0.000     6.432974    8.559762
------------------------------------------------------------------------------
```

Model 2-7: Robust Ck 4.1: Endog ck: Corr cand. inst (fertwdin) & hyp endg reg (fertwdi)

```
. correlate fertwdi fertwdin
(obs=105)

             |  fertwdi fertwdin
-------------+------------------
     fertwdi |   1.0000
    fertwdin |   0.6135   1.0000
```

Model 2-7: Robust Ck 4.2: Endog ck: Does CI predict HER in presence of exog regressors?

```
. ivreg limrcom lgdph giniavni ethnl musl (fertwdi = fertwdin) lpopd urbwdi mysfx, first

First-stage regressions
```

```
----------------------

      Source |       SS       df       MS              Number of obs =     105
-------------+------------------------------           F(  8,    96) =   39.90
       Model |  224.071864     8   28.008983           Prob > F      =  0.0000
    Residual |  67.3957584    96   .70203915           R-squared     =  0.7688
-------------+------------------------------           Adj R-squared =  0.7495
       Total |  291.467623   104   2.8025733           Root MSE      =  .83788

------------------------------------------------------------------------------
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.2671488   .1940475    -1.38   0.172      -.65233    .1180324
    giniavni |   .0202062   .0107587     1.88   0.063    -.0011496     .041562
       ethnl |   .1031475   .3300483     0.31   0.755    -.5519932    .7582882
        musl |   .4281207   .2971389     1.44   0.153    -.1616953    1.017937
       lpopd |  -.2134631   .0606465    -3.52   0.001    -.3338454   -.0930807
      urbwdi |  -.0110225   .0064425    -1.71   0.090    -.0238108    .0017658
       mysfx |  -.2992142   .0685158    -4.37   0.000    -.4352169   -.1632114
    fertwdin |   .2302102   .0647093     3.56   0.001     .1017632    .3586571
       _cons |   7.162134   1.314426     5.45   0.000      4.55302    9.771248
------------------------------------------------------------------------------
```

Model 2-7: Robust Check 4.3: Endog ck: 2SLS using fertwdin as instrument for fertwdi

```
Instrumental variables (2SLS) regression

      Source |       SS       df       MS              Number of obs =     105
-------------+------------------------------           F(  8,    96) =   73.84
       Model |  58.2927996     8  7.28659995           Prob > F      =  0.0000
    Residual |  9.52171952    96  .099184578           R-squared     =  0.8596
-------------+------------------------------           Adj R-squared =  0.8479
       Total |  67.8145191   104  .652062684           Root MSE      =  .31494

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
     fertwdi |  -.0410424   .1056534    -0.39   0.699    -.2507628    .1686781
       lgdph |  -.4650348   .0827308    -5.62   0.000    -.6292541   -.3008154
    giniavni |   .0116985   .0046508     2.52   0.014     .0024668    .0209302
       ethnl |   .1658181   .1264607     1.31   0.193    -.0852043    .4168406
        musl |   .2492616   .1281366     1.95   0.055    -.0050876    .5036108
       lpopd |  -.1013597   .0316116    -3.21   0.002    -.1641083   -.0386111
      urbwdi |  -.0038231   .0024358    -1.57   0.120    -.0086582     .001012
       mysfx |  -.1240487   .0471888    -2.63   0.010    -.2177178   -.0303796
       _cons |   8.077813    1.05127     7.68   0.000     5.991058    10.16457
------------------------------------------------------------------------------
Instrumented:  fertwdi
Instruments:   lgdph giniavni ethnl musl lpopd urbwdi mysfx fertwdin
------------------------------------------------------------------------------
```

Model 2-7: Robust Check 4.4: Endog ck: Hausman test for diff btw coeff of OLS & of 2SLS

```
. estimates store imrmysfx

. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mysfx

      Source |       SS       df       MS              Number of obs =     105
-------------+------------------------------           F(  8,    96) =   76.53
       Model |  58.6229186     8  7.32786483           Prob > F      =  0.0000
    Residual |  9.19160049    96  .095745838           R-squared     =  0.8645
-------------+------------------------------           Adj R-squared =  0.8532
```

```
       Total |  67.8145191   104  .652062684           Root MSE      =  .30943

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4394319   .0718681    -6.11   0.000     -.582089   -.2967748
    giniavni |   .0102644   .0040442     2.54   0.013     .0022368     .018292
       ethnl |   .1452183   .1204338     1.21   0.231     -.093841    .3842776
        musl |   .2080264   .1100416     1.89   0.062    -.0104044    .4264572
     fertwdi |   .0247426   .0354284     0.70   0.487    -.0455822    .0950674
       lpopd |   -.087717   .0235626    -3.72   0.000    -.1344885   -.0409456
      urbwdi |   -.003442   .0023255    -1.48   0.142    -.0080582    .0011741
       mysfx |  -.0988089   .0273521    -3.61   0.000    -.1531025   -.0445154
       _cons |   7.487967   .5490578    13.64   0.000     6.398096    8.577838
------------------------------------------------------------------------------

. hausman imrmysfx

                ---- Coefficients ----
             |      (b)          (B)            (b-B)     sqrt(diag(V_b-V_B))
             |    imrmysfx        .          Difference          S.E.
-------------+------------------------------------------------------------
     fertwdi |   -.0410424     .0247426       -.065785        .0995363
       lgdph |   -.4650348    -.4394319      -.0256029          .04098
    giniavni |    .0116985     .0102644       .0014341        .0022966
       ethnl |    .1658181     .1452183       .0205998        .0385745
        musl |    .2492616     .2080264       .0412352        .0656494
       lpopd |   -.1013597     -.087717      -.0136427        .0210736
      urbwdi |   -.0038231     -.003442      -.0003811        .0007247
       mysfx |   -.1240487    -.0988089      -.0252398        .0384532
------------------------------------------------------------------------------
                           b = consistent under Ho and Ha; obtained from ivreg
         B = inconsistent under Ha, efficient under Ho; obtained from regress

    Test:  Ho:  difference in coefficients not systematic

                 chi2(8) = (b-B)'[(V_b-V_B)^(-1)](b-B)
                         =        0.44
               Prob>chi2 =      0.9999
```

Model 2-7: Robust Check 5.1: DepV: change IMR to U5MR (limrcom to lu5mrcom)

```
. regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi mysfx, r

Linear regression                               Number of obs =     105
                                                F(  8,    96) =  122.68
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8661
                                                Root MSE      =  .35125

------------------------------------------------------------------------------
             |               Robust
    lu5mrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4539494   .0906238    -5.01   0.000    -.6338361   -.2740626
    giniavni |   .0084416   .0063267     1.33   0.185    -.0041168    .0209999
       ethnl |   .2133652   .1342464     1.59   0.115    -.0531117    .4798422
        musl |    .120739   .1233568     0.98   0.330    -.1241223    .3656004
     fertwdi |   .0569463   .0370396     1.54   0.127    -.0165767    .1304693
       lpopd |  -.0967244   .0368617    -2.62   0.010    -.1698942   -.0235546
      urbwdi |  -.0035501   .0025104    -1.41   0.161    -.0085333     .001433
       mysfx |  -.1149721   .0297151    -3.87   0.000    -.1739561   -.0559881
       _cons |   7.929297   .7792953    10.17   0.000     6.382408    9.476186
```

Model 2-7: Robust Check 5.2: DepV: Vary source: infant mortality (limrcom to limrwdi)

```
. regress limrwdi lgdph giniavni ethnl musl fertwdi lpopd urbwdi mysfx, r

Linear regression                                       Number of obs =     105
                                                        F(  8,    96) =  112.97
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8765
                                                        Root MSE      =  .29334

------------------------------------------------------------------------------
             |               Robust
     limrwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4444928   .0675681    -6.58   0.000    -.5786144   -.3103712
    giniavni |   .0116016   .0050386     2.30   0.023     .0016001    .021603
       ethnl |   .0983553   .1078338     0.91   0.364    -.1156931    .3124037
        musl |   .1619102   .1016636     1.59   0.115    -.0398905    .363711
     fertwdi |   .0545626    .032571     1.68   0.097    -.0100903    .1192156
       lpopd |  -.0627548   .0256114    -2.45   0.016     -.113593   -.0119166
      urbwdi |  -.0035085   .0021892    -1.60   0.112     -.007854    .000837
       mysfx |  -.0850887   .0251463    -3.38   0.001    -.1350038   -.0351736
       _cons |   7.223805   .6038306    11.96   0.000     6.025211     8.4224
------------------------------------------------------------------------------
```

Model 2-7: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)

```
. regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi mysfx, r

Linear regression                                       Number of obs =     104
                                                        F(  8,    95) =   93.82
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8698
                                                        Root MSE      =  .30466

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdpmx |   -.438075   .0745667    -5.87   0.000    -.5861087   -.2900414
    giniavni |   .0103211   .0046525     2.22   0.029     .0010847    .0195576
       ethnl |   .1345342    .110009     1.22   0.224    -.0838614    .3529298
        musl |   .1361456   .1000411     1.36   0.177    -.0624611    .3347523
     fertwdi |   .0147722   .0347146     0.43   0.671     -.054145    .0836895
       lpopd |   -.095583   .0272896    -3.50   0.001    -.1497597   -.0414064
      urbwdi |  -.0048175   .0019629    -2.45   0.016    -.0087143   -.0009206
       mysfx |  -.0945244   .0253803    -3.72   0.000    -.1449107    -.044138
       _cons |   7.632787   .6686685    11.41   0.000     6.305312    8.960262
------------------------------------------------------------------------------
```

Model 2-7: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

```
. regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi mysfx gdpmf, r

Linear regression                                       Number of obs =     104
                                                        F(  9,    94) =   91.79
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8698
                                                        Root MSE      =  .30626
```

```
------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |  -.4373697   .0755021    -5.79   0.000    -.5872809   -.2874584
    giniavni |   .0102789   .0048015     2.14   0.035     .0007454    .0198123
       ethnl |    .136216   .1130061     1.21   0.231    -.0881603    .3605923
        musl |   .1359012   .1007863     1.35   0.181    -.0642123    .3360147
     fertwdi |   .0144135   .0355898     0.40   0.686    -.0562508    .0850778
       lpopd |  -.0958977   .0282938    -3.39   0.001    -.1520758   -.0397197
      urbwdi |  -.0048457   .0020056    -2.42   0.018    -.0088277   -.0008636
       mysfx |  -.0944208   .0255547    -3.69   0.000    -.1451603   -.0436814
       gdpmf |  -.0126431   .0942054    -0.13   0.894    -.1996901    .1744039
       _cons |   7.632904   .6726488    11.35   0.000     6.297344    8.968464
------------------------------------------------------------------------------
```

Model 2-7: Robust Check 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)

```
. regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi mysfx, r

Linear regression                                      Number of obs =     105
                                                       F(  8,    96) =  108.94
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8658
                                                       Root MSE      =  .30788

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4202149   .0762914    -5.51   0.000     -.571652   -.2687777
    giniavni |   .0106111   .0056425     1.88   0.063    -.0005892    .0218113
    ethnannx |   .2207317    .139161     1.59   0.116    -.0555006    .4969641
        musl |   .2072936   .1037336     2.00   0.049      .001384    .4132032
     fertwdi |   .0266777   .0320333     0.83   0.407    -.0369079    .0902632
       lpopd |  -.0836919   .0331022    -2.53   0.013    -.1493993   -.0179845
      urbwdi |  -.0038975   .0022131    -1.76   0.081    -.0082905    .0004956
       mysfx |  -.1019891   .0256962    -3.97   0.000    -.1529957   -.0509826
       _cons |   7.266578   .6986213    10.40   0.000     5.879826     8.65333
------------------------------------------------------------------------------
```

Model 2-7: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

```
. regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi mysfx ethnannf, r

Linear regression                                      Number of obs =     105
                                                       F(  9,    95) =   94.84
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8662
                                                       Root MSE      =  .30907

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4337145   .0843037    -5.14   0.000    -.6010785   -.2663506
    giniavni |   .0100773   .0058594     1.72   0.089    -.0015551    .0217096
    ethnannx |   .2139779   .1407206     1.52   0.132    -.0653878    .4933436
        musl |   .2093158   .1044745     2.00   0.048     .0019076    .4167239
     fertwdi |   .0250398   .0320098     0.78   0.436    -.0385077    .0885874
       lpopd |    -.08393   .0331595    -2.53   0.013    -.1497599   -.0181001
```

```
      urbwdi |    -.00352   .0023438    -1.50   0.136     -.008173    .0011331
       mysfx |  -.1009675   .0263578    -3.83   0.000    -.1532944   -.0486406
    ethnannf |  -.0664163   .1441259    -0.46   0.646    -.3525424    .2197099
       _cons |   7.389553   .7664111     9.64   0.000     5.868035    8.911072
------------------------------------------------------------------------------
```

Table 2.2, Model 2-8: Family Planning and Infant Mortality

Model 2-8: Bivariate correlations among independent variables

```
. correlate lgdph giniavni ethnl musl fertwdi lpopd urbwdi rtot
(obs=88)

             |    lgdph giniavni    ethnl     musl  fertwdi    lpopd   urbwdi     rtot
-------------+------------------------------------------------------------------------
       lgdph |   1.0000
    giniavni |   0.0065   1.0000
       ethnl |  -0.5103   0.2484   1.0000
        musl |   0.3196  -0.3123  -0.2666   1.0000
     fertwdi |  -0.6072   0.1177   0.4830   0.1129   1.0000
       lpopd |   0.1386  -0.4069  -0.2024  -0.1395  -0.4124   1.0000
      urbwdi |   0.8151   0.0227  -0.4898   0.2816  -0.5552   0.0537   1.0000
        rtot |   0.1510  -0.0697  -0.1341  -0.2636  -0.5919   0.4690   0.0354   1.0000
```

Model 2-8: Infant mortality predicted by 6 baseline variables only (excl. fertility)

```
. regress limrcom lgdph giniavni ethnl musl lpopd urbwdi, r

Linear regression                                      Number of obs =     105
                                                       F(  6,    98) =  132.92
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8344
                                                       Root MSE      =  .33854

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5888096   .0653196    -9.01   0.000    -.7184342    -.459185
    giniavni |   .0122124   .0060355     2.02   0.046     .0002352    .0241896
       ethnl |   .3041219   .1261462     2.41   0.018     .0537889    .5544549
        musl |   .4988495   .1024674     4.87   0.000     .2955063    .7021926
       lpopd |  -.0882054   .0305882    -2.88   0.005    -.1489067   -.0275042
      urbwdi |  -.0058387   .0023602    -2.47   0.015    -.0105224    -.001155
       _cons |   8.283047   .5246576    15.79   0.000     7.241881    9.324213
------------------------------------------------------------------------------
```

Model 2-8: Infant mortality predicted by 6 baseline variables and family planning

```
. regress limrcom lgdph giniavni ethnl musl lpopd urbwdi rtot, r

Linear regression                                      Number of obs =      88
                                                       F(  7,    80) =   62.86
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8354
                                                       Root MSE      =  .32413

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
```

```
       lgdph |  -.5698748   .0697342    -8.17   0.000    -.7086503   -.4310992
    giniavni |   .0168337   .0062112     2.71   0.008     .0044732    .0291943
       ethnl |   .3407941   .1334611     2.55   0.013      .075198    .6063902
        musl |   .4984561    .104099     4.79   0.000     .2912926    .7056197
       lpopd |  -.0120054    .026872    -0.45   0.656    -.0654824    .0414716
      urbwdi |  -.0071189   .0024876    -2.86   0.005    -.0120694   -.0021684
        rtot |  -.0036285   .0014571    -2.49   0.015    -.0065283   -.0007288
       _cons |   7.871109   .5139207    15.32   0.000     6.848375    8.893844
------------------------------------------------------------------------------
```

Model 2-8: Means and SDs of family planning and infant mortality

```
. summarize imrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
      imrcom |       105    70.13333    45.54712          6        202

. summarize limrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     limrcom |       105    3.985123     .807504   1.791759   5.308268

. summarize rtot

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        rtot |        88       53.85    25.27719          0        104
```

Model 2-8: How much would infant mortality fall if family planning rose one SD?

```
. estsimp regress limrcom lgdph giniavni ethnl musl lpopd urbwdi rtot, r

Linear regression                               Number of obs =      88
                                                F(  7,    80) =   62.86
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8354
                                                Root MSE      =  .32413

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5698748   .0697342    -8.17   0.000    -.7086503   -.4310992
    giniavni |   .0168337   .0062112     2.71   0.008     .0044732    .0291943
       ethnl |   .3407941   .1334611     2.55   0.013      .075198    .6063902
        musl |   .4984561    .104099     4.79   0.000     .2912926    .7056197
       lpopd |  -.0120054    .026872    -0.45   0.656    -.0654824    .0414716
      urbwdi |  -.0071189   .0024876    -2.86   0.005    -.0120694   -.0021684
        rtot |  -.0036285   .0014571    -2.49   0.015    -.0065283   -.0007288
       _cons |   7.871109   .5139207    15.32   0.000     6.848375    8.893844
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....
% of simulations completed: 12% 25% 37% 50% 62% 75% 87% 100%


Simulating sigma-squared.  Please wait


Number of simulations  : 1000
```

```
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9

. setx mean

. simqi, tfunc(exp) fd(ev) changex(rtot 53.85 79.12719)

First Difference: rtot 53.85 79.12719

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+-----------------------------------------------
          dE[exp(limrcom)] |  -4.853298     2.082365    -8.734154   -.7980232
```

Model 2-8: Robustness checks

Model 2-8: Robust Check 1.1: Change specification: Include fertility

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi rtot, r

Linear regression                                      Number of obs =      88
                                                       F(  8,    79) =   56.79
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8402
                                                       Root MSE      =  .32136

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5337248   .0730988    -7.30   0.000    -.6792243   -.3882252
    giniavni |   .0154551   .0062367     2.48   0.015     .0030413    .027869
       ethnl |   .2876362   .1368544     2.10   0.039     .0152343    .560038
        musl |   .4311498   .1157433     3.73   0.000     .2007685    .6615311
     fertwdi |   .0621622   .0388405     1.60   0.113    -.0151479    .1394723
       lpopd |  -.0090258   .0281162    -0.32   0.749    -.0649898    .0469382
      urbwdi |  -.0058635   .0026401    -2.22   0.029    -.0111184   -.0006085
        rtot |  -.0019322   .0017746    -1.09   0.280    -.0054644       .0016
       _cons |   7.239549   .6312973    11.47   0.000     5.982983    8.496115
------------------------------------------------------------------------------
```

Model 2-8: Robust Check 1.2: Change specification: Include female schooling

```
. regress limrcom lgdph giniavni ethnl musl lpopd urbwdi rtot mysfx, r

Linear regression                                      Number of obs =      88
                                                       F(  8,    79) =   66.20
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8655
                                                       Root MSE      =  .29486

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4656617   .0712951    -6.53   0.000    -.6075712   -.3237523
    giniavni |   .0152818   .0054665     2.80   0.007      .004401    .0261627
       ethnl |   .1999814   .1305956     1.53   0.130    -.0599627    .4599254
        musl |    .265381   .1166687     2.27   0.026     .0331576    .4976043
       lpopd |  -.031303    .0298613    -1.05   0.298    -.0907404    .0281343
      urbwdi |  -.003856    .0025597    -1.51   0.136     -.008951     .001239
        rtot |  -.0016037   .0013687    -1.17   0.245     -.004328    .0011206
       mysfx |  -.1082712    .024351    -4.45   0.000    -.1567407   -.0598017
```

```
       _cons |    7.46578   .5303315    14.08   0.000     6.410182    8.521379
------------------------------------------------------------------------------
```

Model 2-8: Robust Check 1.3: Change specification: Include female literacy

```
. regress limrcom lgdph giniavni ethnl musl lpopd urbwdi rtot litfewdi, r

Linear regression                                      Number of obs =      88
                                                       F(  8,    79) =   60.78
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8617
                                                       Root MSE      =  .29895

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4720078   .0685129    -6.89   0.000    -.6083792   -.3356364
    giniavni |   .0170288   .0056387     3.02   0.003     .0058051    .0282524
       ethnl |   .1600492   .1291067     1.24   0.219    -.0969313    .4170296
        musl |   .2525189   .1164057     2.17   0.033     .0208191    .4842187
       lpopd |  -.0235422    .028845    -0.82   0.417    -.0809567    .0338723
      urbwdi |  -.0051339   .0025447    -2.02   0.047     -.010199   -.0000687
        rtot |  -.0021624   .0013572    -1.59   0.115    -.0048639    .0005391
    litfewdi |   -.007508   .0018294    -4.10   0.000    -.0111492   -.0038667
       _cons |   7.541584   .5092531    14.81   0.000     6.527941    8.555227
------------------------------------------------------------------------------
```

Model 2-8: Robust Check 1.4: Change specification: Include geographical variables

```
. regress limrcom lgdph giniavni ethnl musl lpopd urbwdi rtot airdist popcrgs latcapab, r

Linear regression                                      Number of obs =      88
                                                       F( 10,    77) =   47.21
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8395
                                                       Root MSE      =  .32629

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5557973   .0703481    -7.90   0.000    -.6958782   -.4157164
    giniavni |   .0167534   .0063427     2.64   0.010     .0041235    .0293833
       ethnl |   .3304656   .1383738     2.39   0.019     .0549282     .606003
        musl |   .4695986   .1145751     4.10   0.000     .2414504    .6977468
       lpopd |   .0044385   .0312622     0.14   0.887    -.0578126    .0666895
      urbwdi |  -.0069227   .0024941    -2.78   0.007    -.0118891   -.0019563
        rtot |  -.0035063    .001558    -2.25   0.027    -.0066087   -.0004039
     airdist |  -4.27e-08   .0000193    -0.00   0.998    -.0000385    .0000384
     popcrgs |  -.0015503   .0013539    -1.15   0.256    -.0042463    .0011456
    latcapab |   .0020492   .0036531     0.56   0.576     -.005225    .0093233
       _cons |    7.73976   .5173731    14.96   0.000     6.709538    8.769981
------------------------------------------------------------------------------
```

Model 2-8: Robust Check 1.5: Change specification: Include regional dummy variables

```
. regress limrcom lgdph giniavni ethnl musl lpopd urbwdi rtot afri lati east sout, r

Linear regression                                      Number of obs =      88
                                                       F( 11,    76) =   53.76
```

```
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8429
                                                Root MSE      =  .32492

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5536116   .0727468    -7.61   0.000    -.6984994   -.4087237
    giniavni |   .0164831   .0070674     2.33   0.022     .0024071    .0305591
       ethnl |   .4102426   .1509994     2.72   0.008     .1095013     .710984
        musl |   .3667196   .1132483     3.24   0.002      .141166    .5922731
       lpopd |  -.0127647     .02675    -0.48   0.635    -.0660419    .0405125
      urbwdi |  -.0080335   .0024659    -3.26   0.002    -.0129447   -.0031224
        rtot |  -.0039443   .0015127    -2.61   0.011    -.0069572   -.0009314
        afri |  -.1910853   .1251069    -1.53   0.131    -.4402573    .0580867
        lati |  -.1113717   .1419867    -0.78   0.435    -.3941626    .1714193
        east |  -.2743875   .1221441    -2.25   0.028    -.5176586   -.0311164
        sout |  -.0108703   .2102321    -0.05   0.959    -.4295838    .4078433
       _cons |   7.959952   .5174305    15.38   0.000       6.9294    8.990504
------------------------------------------------------------------------------
```

Model 2-8: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress limrcom lgdph giniavni ethnl musl lpopd urbwdi rtot gdphf giniavnf ethnlf, r

Linear regression                               Number of obs =      88
                                                F(  9,    78) =   44.56
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8407
                                                Root MSE      =  .32297

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5618693   .0727093    -7.73   0.000    -.7066223   -.4171162
    giniavni |   .0143612   .0059658     2.41   0.018     .0024843    .0262382
       ethnl |   .3148759    .133351     2.36   0.021     .0493945    .5803574
        musl |   .4868547   .1001588     4.86   0.000     .2874538    .6862555
       lpopd |  -.0157232   .0281382    -0.56   0.578     -.071742    .0402955
      urbwdi |   -.006648   .0024456    -2.72   0.008    -.0115169   -.0017791
        rtot |  -.0042777   .0016737    -2.56   0.013    -.0076098   -.0009456
       gdphf |  (dropped)
    giniavnf |  -.0248658   .1048109    -0.24   0.813    -.2335283    .1837966
      ethnlf |  -.2331406    .177141    -1.32   0.192    -.5858011      .11952
       _cons |   7.980384   .5009717    15.93   0.000     6.983026    8.977742
------------------------------------------------------------------------------
```

Model 2-8: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg limrcom lgdph giniavni ethnl musl lpopd urbwdi rtot

   Huber iteration 1:  maximum difference in weights = .33795818
   Huber iteration 2:  maximum difference in weights = .0185231
Biweight iteration 3:  maximum difference in weights = .15668194
Biweight iteration 4:  maximum difference in weights = .00855726

Robust regression                               Number of obs =      88
                                                F(  7,    80) =   49.79
                                                Prob > F      =  0.0000
```

```
------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5649725   .0809869    -6.98   0.000    -.7261415   -.4038034
    giniavni |     .01683   .0053461     3.15   0.002     .0061909    .0274692
       ethnl |   .3305236   .1502543     2.20   0.031      .031508    .6295393
        musl |   .4879802   .1214943     4.02   0.000     .2461987    .7297616
       lpopd |  -.0149969   .0345788    -0.43   0.666    -.0838109     .053817
      urbwdi |  -.0074109   .0028925    -2.56   0.012    -.0131671   -.0016547
        rtot |  -.0036659     .00178    -2.06   0.043    -.0072082   -.0001236
       _cons |   7.871808   .5499604    14.31   0.000     6.777352    8.966264
------------------------------------------------------------------------------
```

Model 2-8: Robust Check 3.2: Outlier checks: Median regression

```
. qreg limrcom lgdph giniavni ethnl musl lpopd urbwdi rtot
Iteration  1:  WLS sum of weighted deviations =  22.460501

Iteration  1: sum of abs. weighted deviations =  22.636769
Iteration  2: sum of abs. weighted deviations =  22.383356
Iteration  3: sum of abs. weighted deviations =   22.32905
Iteration  4: sum of abs. weighted deviations =  22.177426
Iteration  5: sum of abs. weighted deviations =  22.131902
Iteration  6: sum of abs. weighted deviations =  22.115701
Iteration  7: sum of abs. weighted deviations =  22.047732
Iteration  8: sum of abs. weighted deviations =  22.025954

Median regression                                   Number of obs =        88
  Raw sum of deviations 55.24062 (about 4.0775375)
  Min sum of deviations 22.02595                    Pseudo R2     =    0.6013

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5879553    .103058    -5.71   0.000    -.7930473   -.3828634
    giniavni |   .0128082    .007466     1.72   0.090    -.0020495     .027666
       ethnl |   .2197964   .2064682     1.06   0.290    -.1910884    .6306813
        musl |    .384786   .1622997     2.37   0.020     .0617993    .7077727
       lpopd |  -.0360718   .0432943    -0.83   0.407    -.1222302    .0500866
      urbwdi |  -.0065645   .0036602    -1.79   0.077    -.0138484    .0007195
        rtot |  -.0025702   .0022089    -1.16   0.248    -.0069661    .0018257
       _cons |   8.291231   .7039855    11.78   0.000     6.890255    9.692207
------------------------------------------------------------------------------
```

Model 2-8: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd

```
. regress limrcom lgdph giniavni ethnl musl lpopd urbwdi rtot if ctry ~= "Namibia" & ctry ~= "Cuba",
r

Linear regression                                   Number of obs =      86
                                                    F(  7,    78) =   70.61
                                                    Prob > F      =  0.0000
                                                    R-squared     =  0.8466
                                                    Root MSE      =  .30891

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5784057   .0665648    -8.69   0.000    -.7109261   -.4458853
    giniavni |   .0165658   .0055052     3.01   0.004     .0056059    .0275257
       ethnl |   .3307699    .132617     2.49   0.015     .0667497    .5947901
```

```
        musl |    .463537   .1005738     4.61   0.000       .26331     .663764
       lpopd |  -.0237378   .0249143    -0.95   0.344    -.0733384    .0258628
      urbwdi |  -.0065726   .0021009    -3.13   0.002    -.0107552     -.00239
        rtot |  -.0037508   .0013816    -2.71   0.008    -.0065014   -.0010002
       _cons |   8.000923   .4585767    17.45   0.000     7.087967     8.91388
------------------------------------------------------------------------------
```

Model 2-8: Robust Check 5.1: DepV: change IMR to U5MR (limrcom to lu5mrcom)

```
. regress lu5mrcom lgdph giniavni ethnl musl lpopd urbwdi rtot, r

Linear regression                                      Number of obs =      88
                                                       F(  7,    80) =   81.01
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8499
                                                       Root MSE      =  .35693

------------------------------------------------------------------------------
             |               Robust
    lu5mrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.6608821   .0756541    -8.74   0.000    -.8114385   -.5103257
    giniavni |    .017074   .0071944     2.37   0.020     .0027568    .0313913
       ethnl |   .4475146   .1419161     3.15   0.002     .1650926    .7299366
        musl |   .5209506   .1111041     4.69   0.000     .2998464    .7420548
       lpopd |  -.0095131   .0294487    -0.32   0.748    -.0681178    .0490916
      urbwdi |  -.0078545   .0028029    -2.80   0.006    -.0134325   -.0022765
        rtot |  -.0045626   .0016434    -2.78   0.007    -.0078332   -.0012921
       _cons |   8.886439   .5602077    15.86   0.000      7.77159    10.00129
------------------------------------------------------------------------------
```

Model 2-8: Robust Check 5.2: DepV: Vary source: infant mortality (limrcom to limrwdi)

```
. regress limrwdi lgdph giniavni ethnl musl lpopd urbwdi rtot, r

Linear regression                                      Number of obs =      88
                                                       F(  7,    80) =   68.10
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8295
                                                       Root MSE      =  .32697

------------------------------------------------------------------------------
             |               Robust
     limrwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5788798   .0702356    -8.24   0.000    -.7186532   -.4391065
    giniavni |    .016121   .0064804     2.49   0.015     .0032247    .0290173
       ethnl |   .2882039   .1267808     2.27   0.026      .035902    .5405058
        musl |    .467303   .1057037     4.42   0.000      .256946      .67766
       lpopd |  -.0155063   .0263569    -0.59   0.558    -.0679581    .0369456
      urbwdi |  -.0068384    .002715    -2.52   0.014    -.0122414   -.0014354
        rtot |  -.0033956   .0015299    -2.22   0.029    -.0064403    -.000351
       _cons |   8.007002   .5200564    15.40   0.000     6.972057    9.041947
------------------------------------------------------------------------------
```

Model 2-8: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)

```
. regress limrcom lgdpmx giniavni ethnl musl lpopd urbwdi rtot, r
```

```
Linear regression                               Number of obs =      88
                                                F(  7,    80) =   54.72
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8285
                                                Root MSE      =  .33088

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |  -.5482328   .0683971    -8.02   0.000    -.6843474   -.4121182
    giniavni |   .0157771   .0054091     2.92   0.005     .0050127    .0265415
       ethnl |   .3133165   .1342227     2.33   0.022     .0462048    .5804281
        musl |   .4147282   .1061761     3.91   0.000      .203431    .6260254
       lpopd |  -.0355721   .0285623    -1.25   0.217    -.0924129    .0212687
      urbwdi |  -.0077128   .0024041    -3.21   0.002    -.0124972   -.0029284
        rtot |  -.0023604   .0016399    -1.44   0.154     -.005624    .0009031
       _cons |   7.851159   .4997004    15.71   0.000     6.856724    8.845595
------------------------------------------------------------------------------
```

Model 2-8: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

```
. regress limrcom lgdpmx giniavni ethnl musl lpopd urbwdi rtot gdpmf, r

Linear regression                               Number of obs =      88
                                                F(  8,    79) =   48.00
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8291
                                                Root MSE      =  .33233

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |  -.5575841   .0718621    -7.76   0.000    -.7006221    -.414546
    giniavni |   .0161672   .0055222     2.93   0.004     .0051756    .0271588
       ethnl |   .3122915   .1353041     2.31   0.024     .0429754    .5816076
        musl |   .4234994   .1094447     3.87   0.000     .2056552    .6413437
       lpopd |  -.0307293   .0308221    -1.00   0.322    -.0920791    .0306206
      urbwdi |    -.00738   .0025358    -2.91   0.005    -.0124274   -.0023326
        rtot |  -.0023608    .001652    -1.43   0.157     -.005649    .0009275
       gdpmf |   .1395557   .1005954     1.39   0.169    -.0606744    .3397859
       _cons |   7.868473   .4993104    15.76   0.000     6.874621    8.862326
------------------------------------------------------------------------------
```

Model 2-8: Robust Check 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)

```
. regress limrcom lgdph giniavni ethnannx musl lpopd urbwdi rtot, r

Linear regression                               Number of obs =      88
                                                F(  7,    80) =   67.27
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8301
                                                Root MSE      =  .32936

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5708206   .0742181    -7.69   0.000    -.7185192   -.4231219
    giniavni |   .0187236   .0060701     3.08   0.003     .0066437    .0308036
```

```
    ethnannx |   .2901538   .1574734     1.84   0.069    -.0232282    .6035358
        musl |    .511832   .1073477     4.77   0.000     .2982032    .7254609
       lpopd |  -.0080796   .0265511    -0.30   0.762    -.0609179    .0447587
      urbwdi |  -.0082999   .0025932    -3.20   0.002    -.0134606   -.0031393
        rtot |  -.0037107   .0015408    -2.41   0.018    -.0067771   -.0006444
       _cons |   7.802701    .563814    13.84   0.000     6.680676    8.924727
------------------------------------------------------------------------------
```

Model 2-8: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

```
. regress limrcom lgdph giniavni ethnannx musl lpopd urbwdi rtot ethnannf, r

Linear regression                                      Number of obs =      88
                                                       F(  8,    79) =   57.08
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8400
                                                       Root MSE      =  .32164

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.6214234   .0770613    -8.06   0.000    -.7748101   -.4680367
    giniavni |   .0153899   .0059286     2.60   0.011     .0035893    .0271906
    ethnannx |   .2295987   .1573108     1.46   0.148    -.0835205    .5427179
        musl |   .4594112   .1054399     4.36   0.000     .2495383    .6692842
       lpopd |  -.0066967   .0265813    -0.25   0.802    -.0596054    .0462121
      urbwdi |  -.0061401   .0026862    -2.29   0.025    -.0114869   -.0007933
        rtot |  -.0034213   .0014947    -2.29   0.025    -.0063964   -.0004463
    ethnannf |  -.4243452   .1831211    -2.32   0.023    -.7888386   -.0598517
       _cons |   8.282779   .5745105    14.42   0.000     7.139244    9.426313
------------------------------------------------------------------------------
```

Table 2.2, Model 2-9: Access to An Improved Water Source and Infant Mortality

Model 2-9: Bivariate correlations among independent variables

```
. correlate lgdph giniavni ethnl musl fertwdi lpopd urbwdi watecom
(obs=105)

             |   lgdph giniavni    ethnl     musl  fertwdi    lpopd   urbwdi  watecom
-------------+------------------------------------------------------------------------
       lgdph |   1.0000
    giniavni |  -0.0275   1.0000
       ethnl |  -0.4711   0.2512   1.0000
        musl |   0.2810  -0.2888  -0.2869   1.0000
     fertwdi |  -0.6581   0.1486   0.4352   0.1280   1.0000
       lpopd |   0.2105  -0.3196  -0.1984  -0.1269  -0.4301   1.0000
      urbwdi |   0.8313  -0.0237  -0.4315   0.2495  -0.6012   0.1290   1.0000
     watecom |   0.7379  -0.1631  -0.4812   0.2361  -0.6924   0.3243   0.6841   1.0000
```

Model 2-9: Infant mortality predicted by 7 baseline variables only (same as Model 2-3)

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r

Linear regression                                      Number of obs =     105
                                                       F(  7,    97) =  115.48
                                                       Prob > F      =  0.0000
```

```
                                                R-squared     =  0.8460
                                                Root MSE      =  .32809

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5106892   .0728516    -7.01   0.000    -.6552793    -.366099
    giniavni |   .0098456   .0057971     1.70   0.093      -.00166    .0213512
       ethnl |   .2291501   .1208339     1.90   0.061    -.0106718     .468972
        musl |   .3573075   .1090143     3.28   0.001     .1409443    .5736707
     fertwdi |   .0883452   .0306893     2.88   0.005     .0274354    .1492551
       lpopd |  -.0713372   .0317142    -2.25   0.027    -.1342811   -.0083933
      urbwdi |  -.0046217   .0022445    -2.06   0.042    -.0090765   -.0001669
       _cons |   7.311515   .6431156    11.37   0.000     6.035109    8.587922
------------------------------------------------------------------------------
```

Model 2-9: Infant mortality predicted by 7 baseline variables and % access impvd water

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi watecom, r

Linear regression                               Number of obs =     105
                                                F(  8,    96) =   93.54
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8493
                                                Root MSE      =  .32622

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4876714   .0732522    -6.66   0.000    -.6330758   -.3422669
    giniavni |    .009813   .0056758     1.73   0.087    -.0014534    .0210794
       ethnl |    .214739   .1192614     1.80   0.075    -.0219929    .4514709
        musl |    .390946   .1056888     3.70   0.000     .1811553    .6007366
     fertwdi |   .0702058   .0329494     2.13   0.036     .0048018    .1356098
       lpopd |  -.0665065   .0309674    -2.15   0.034    -.1279763   -.0050368
      urbwdi |  -.0040935   .0023028    -1.78   0.079    -.0086646    .0004776
     watecom |  -.0034114    .001921    -1.78   0.079    -.0072245    .0004017
       _cons |   7.415669   .6449675    11.50   0.000     6.135419     8.69592
------------------------------------------------------------------------------
```

Model 2-9: Means and SDs of access to an improved water source and infant mortality

```
. summarize imrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
      imrcom |       105    70.13333    45.54712          6        202

. summarize limrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     limrcom |       105    3.985123     .807504   1.791759   5.308268

. summarize watecom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     watecom |       105    68.07619    23.47613          4        100
```

Model 2-9: How much would infant mortality fall if water access rose one SD?

```
. estsimp regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi watecom, r

Linear regression                                       Number of obs =     105
                                                        F(  8,    96) =   93.54
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8493
                                                        Root MSE      =  .32622

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4876714   .0732522    -6.66   0.000    -.6330758   -.3422669
    giniavni |    .009813   .0056758     1.73   0.087    -.0014534    .0210794
       ethnl |    .214739   .1192614     1.80   0.075    -.0219929    .4514709
        musl |    .390946   .1056888     3.70   0.000     .1811553    .6007366
     fertwdi |   .0702058   .0329494     2.13   0.036     .0048018    .1356098
       lpopd |  -.0665065   .0309674    -2.15   0.034    -.1279763   -.0050368
      urbwdi |  -.0040935   .0023028    -1.78   0.079    -.0086646    .0004776
     watecom |  -.0034114    .001921    -1.78   0.079    -.0072245    .0004017
       _cons |   7.415669   .6449675    11.50   0.000     6.135419     8.69592
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....
% of simulations completed: 11% 22% 33% 44% 55% 66% 77% 88% 100%


Simulating sigma-squared.  Please wait


Number of simulations  : 1000
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9 b10

. setx mean

. simqi, tfunc(exp) fd(ev) changex(watecom 68.07619 91.55232)

First Difference: watecom 68.07619 91.55232

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
     dE[exp(limrcom)] |  -4.278153     2.465548    -8.863958     .680479
```

Model 2-9: Robustness checks

Model 2-9: Robust Check 1.1: Change specification: Exclude fertility

```
. regress limrcom lgdph giniavni ethnl musl lpopd urbwdi watecom, r

Linear regression                                       Number of obs =     105
                                                        F(  7,    97) =  102.38
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8429
                                                        Root MSE      =  .33137

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
```

```
      lgdph |   -.530233   .0681316    -7.78   0.000    -.6654554   -.3950107
    giniavni |   .0114347   .0057858     1.98   0.051    -.0000486    .0229179
       ethnl |   .2594228   .1226205     2.12   0.037      .016055    .5027905
        musl |    .505713   .0993364     5.09   0.000     .3085577    .7028683
       lpopd |  -.0757663   .0295608    -2.56   0.012    -.1344364   -.0170963
      urbwdi |  -.0046718   .0023538    -1.98   0.050    -.0093434   -2.22e-07
     watecom |  -.0051162   .0018013    -2.84   0.005    -.0086913   -.0015411
       _cons |   8.140085   .5130736    15.87   0.000     7.121776    9.158394
```

Model 2-9: Robust Check 1.2: Change specification: Include female schooling

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi watecom mysfx, r

Linear regression                                      Number of obs =     105
                                                       F(  9,    95) =   85.39
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8682
                                                       Root MSE      =  .30668

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4138899   .0728616    -5.68   0.000    -.5585385   -.2692413
    giniavni |    .010235   .0054827     1.87   0.065    -.0006495    .0211196
       ethnl |   .1287113   .1160288     1.11   0.270     -.101635    .3590576
        musl |   .2420306   .1049799     2.31   0.023     .0336192    .4504421
     fertwdi |   .0045164   .0336055     0.13   0.893     -.062199    .0712317
       lpopd |  -.0827675   .0323491    -2.56   0.012    -.1469885   -.0185464
      urbwdi |  -.0028619   .0021855    -1.31   0.194    -.0072006    .0014768
     watecom |   -.003647   .0017826    -2.05   0.044    -.0071859    -.000108
       mysfx |  -.1001046   .0264178    -3.79   0.000    -.1525506   -.0476586
       _cons |   7.601629   .6552895    11.60   0.000     6.300715    8.902543
------------------------------------------------------------------------------
```

Model 2-9: Robust Check 1.3: Change specification: Include female literacy

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi watecom litfewdi, r

Linear regression                                      Number of obs =     105
                                                       F(  9,    95) =   77.11
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8621
                                                       Root MSE      =  .31378

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4496436   .0693077    -6.49   0.000    -.5872367   -.3120505
    giniavni |   .0108528   .0056893     1.91   0.059    -.0004418    .0221474
       ethnl |   .1096694   .1150853     0.95   0.343    -.1188039    .3381427
        musl |   .2530098    .108073     2.34   0.021     .0384577    .4675619
     fertwdi |   .0086539    .036761     0.24   0.814     -.064326    .0816338
       lpopd |  -.0852046    .031965    -2.67   0.009    -.1486632    -.021746
      urbwdi |  -.0035393   .0022872    -1.55   0.125      -.00808    .0010013
     watecom |   -.003257   .0018716    -1.74   0.085    -.0069726    .0004586
    litfewdi |  -.0064592   .0020291    -3.18   0.002    -.0104875    -.002431
       _cons |   7.841174   .6585298    11.91   0.000     6.533827    9.148521
------------------------------------------------------------------------------
```

Model 2-9: Robust Check 1.4: Change specification: Include geographical variables

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi watecom airdist popcrgs latcapab, r

Linear regression                                       Number of obs =     105
                                                        F( 11,    93) =   68.31
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8545
                                                        Root MSE      =  .32577

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4764952   .0739766    -6.44   0.000     -.623398   -.3295924
    giniavni |   .0106871    .005507     1.94   0.055    -.0002487    .0216229
       ethnl |   .2567568   .1122423     2.29   0.024     .0338658    .4796478
        musl |   .3237642   .1177612     2.75   0.007     .0899139    .5576145
     fertwdi |   .0829019   .0367674     2.25   0.026     .0098892    .1559147
       lpopd |  -.0533887   .0299039    -1.79   0.077    -.1127719    .0059945
      urbwdi |  -.0041743    .002238    -1.87   0.065    -.0086186       .00027
     watecom |   -.002859   .0019121    -1.50   0.138    -.0066561    .0009382
     airdist |  -5.72e-06   .0000171    -0.33   0.739    -.0000397    .0000283
     popcrgs |  -.0009779   .0011056    -0.88   0.379    -.0031734    .0012176
    latcapab |   .0052151   .0036807     1.42   0.160     -.002094    .0125242
       _cons |   7.128994   .6209622    11.48   0.000     5.895886    8.362101
------------------------------------------------------------------------------
```

Model 2-9: Robust Check 1.5: Change specification: Include regional dummy variables

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi watecom afri lati east sout, r

Linear regression                                       Number of obs =     105
                                                        F( 12,    92) =   75.95
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8518
                                                        Root MSE      =  .33051

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4992788   .0774766    -6.44   0.000    -.6531541   -.3454035
    giniavni |   .0109882   .0060627     1.81   0.073    -.0010528    .0230292
       ethnl |   .2344135   .1371099     1.71   0.091    -.0378986    .5067256
        musl |   .2977259    .096958     3.07   0.003     .1051589    .4902929
     fertwdi |   .0693512   .0405523     1.71   0.091    -.0111892    .1498915
       lpopd |  -.0692289   .0339838    -2.04   0.045    -.1367237    -.001734
      urbwdi |  -.0036783   .0025534    -1.44   0.153    -.0087495    .0013929
     watecom |  -.0035563   .0020459    -1.74   0.086    -.0076197     .000507
        afri |  -.1472235   .1005089    -1.46   0.146    -.3468428    .0523958
        lati |  -.1294773   .1400359    -0.92   0.358    -.4076007    .1486462
        east |  -.1448103   .1396984    -1.04   0.303    -.4222633    .1326427
        sout |   .0061815   .2104242     0.03   0.977    -.4117392    .4241022
       _cons |   7.576723   .6733136    11.25   0.000     6.239464    8.913982
------------------------------------------------------------------------------
```

Model 2-9: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi watecom gdphf giniavnf ethnlf, r

Linear regression                                       Number of obs =     105
```

```
                                                F( 10,    93) =       .
                                                Prob > F      =       .
                                                R-squared     =  0.8573
                                                Root MSE      =  .32256

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4764778    .071082    -6.70   0.000    -.6176325    -.335323
    giniavni |   .0065269   .0056888     1.15   0.254    -.0047699    .0178236
       ethnl |   .1846417   .1201363     1.54   0.128    -.0539251    .4232085
        musl |   .3632092   .1049355     3.46   0.001     .1548282    .5715903
     fertwdi |   .0884299     .03274     2.70   0.008     .0234147     .153445
       lpopd |  -.0696007   .0299183    -2.33   0.022    -.1290126   -.0101889
      urbwdi |  -.0030033   .0024696    -1.22   0.227    -.0079075    .0019009
     watecom |  -.0030677   .0020143    -1.52   0.131    -.0070677    .0009323
       gdphf |  -.2358734   .1322675    -1.78   0.078    -.4985306    .0267837
    giniavnf |    -.03153   .0769751    -0.41   0.683    -.1843872    .1213272
      ethnlf |  -.3121732   .1690387    -1.85   0.068    -.6478504    .0235041
       _cons |   7.373749    .590483    12.49   0.000     6.201167    8.546331
------------------------------------------------------------------------------
```

Model 2-9: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi watecom

   Huber iteration 1:  maximum difference in weights = .5136385
   Huber iteration 2:  maximum difference in weights = .10695618
   Huber iteration 3:  maximum difference in weights = .02091259
Biweight iteration 4:  maximum difference in weights = .15249576
Biweight iteration 5:  maximum difference in weights = .01129421
Biweight iteration 6:  maximum difference in weights = .00237195

Robust regression                               Number of obs =     105
                                                F(  8,    96) =   58.86
                                                Prob > F      =  0.0000

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4847718   .0799572    -6.06   0.000    -.6434856    -.326058
    giniavni |    .010524   .0045705     2.30   0.023     .0014517    .0195963
       ethnl |   .2265994   .1340255     1.69   0.094     -.039439    .4926379
        musl |   .3941147   .1179468     3.34   0.001     .1599921    .6282373
     fertwdi |   .0744275   .0372463     2.00   0.049     .0004942    .1483608
       lpopd |  -.0562426   .0263836    -2.13   0.036    -.1086135   -.0038716
      urbwdi |  -.0045031   .0026322    -1.71   0.090    -.0097279    .0007217
     watecom |   -.003025    .002517    -1.20   0.232    -.0080212    .0019713
       _cons |   7.287932   .6230533    11.70   0.000     6.051181    8.524683
------------------------------------------------------------------------------
```

Model 2-9: Robust Check 3.2: Outlier checks: Median regression

```
. qreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi watecom
Iteration  1:  WLS sum of weighted deviations =   26.61911

Iteration  1: sum of abs. weighted deviations =  33.009388
Iteration  2: sum of abs. weighted deviations =  26.722951
Iteration  3: sum of abs. weighted deviations =  26.435588
Iteration  4: sum of abs. weighted deviations =  26.347719
Iteration  5: sum of abs. weighted deviations =  26.334318
```

```
Iteration  6: sum of abs. weighted deviations =   26.30988
Iteration  7: sum of abs. weighted deviations =  26.230653
Iteration  8: sum of abs. weighted deviations =  26.133689
Iteration  9: sum of abs. weighted deviations =  26.092969
Iteration 10: sum of abs. weighted deviations =  26.076248
Iteration 11: sum of abs. weighted deviations =  26.068431
Iteration 12: sum of abs. weighted deviations =  26.067659
Iteration 13: sum of abs. weighted deviations =  26.062506
Iteration 14: sum of abs. weighted deviations =  26.061144

Median regression                                   Number of obs =       105
  Raw sum of deviations 68.21916 (about 4.1271343)
  Min sum of deviations 26.06114                    Pseudo R2     =    0.6180

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.3902589   .0977283    -3.99   0.000    -.5842481   -.1962696
    giniavni |   .0076124   .0056818     1.34   0.183    -.0036659    .0188907
       ethnl |   .1640973   .1592136     1.03   0.305    -.1519392    .4801338
        musl |   .2478138   .1410521     1.76   0.082    -.0321724    .5277999
     fertwdi |   .1112956   .0449141     2.48   0.015     .0221419    .2004493
       lpopd |  -.0651266   .0328191    -1.98   0.050    -.1302719    .0000188
      urbwdi |  -.0058497    .003237    -1.81   0.074    -.0122751    .0005757
     watecom |  -.0021884   .0031131    -0.70   0.484    -.0083677     .003991
       _cons |   6.634279    .765061     8.67   0.000     5.115645    8.152913
------------------------------------------------------------------------------
```

Model 2-9: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi watecom if ctry ~= "Mongolia" &
ctry ~= "Cuba", r

Linear regression                                   Number of obs =     103
                                                    F(  8,    94) =   89.05
                                                    Prob > F      =  0.0000
                                                    R-squared     =  0.8620
                                                    Root MSE      =  .30842

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5154035   .0672155    -7.67   0.000    -.6488615   -.3819456
    giniavni |   .0108365   .0049152     2.20   0.030     .0010772    .0205959
       ethnl |   .2437662    .114995     2.12   0.037     .0154409    .4720915
        musl |   .4237522   .0949268     4.46   0.000     .2352729    .6122315
     fertwdi |   .0671451   .0312112     2.15   0.034     .0051745    .1291157
       lpopd |  -.0470013   .0246208    -1.91   0.059    -.0958863    .0018838
      urbwdi |  -.0035923   .0021561    -1.67   0.099    -.0078733    .0006888
     watecom |  -.0030387   .0018979    -1.60   0.113    -.0068069    .0007296
       _cons |   7.455762   .5284704    14.11   0.000     6.406472    8.505052
------------------------------------------------------------------------------
```

Model 2-9: Robust Ck 4.1: Endog ck: Corr cand. inst (fertwdin) & hyp endg reg (fertwdi)

```
. correlate fertwdi fertwdin
(obs=105)

             |  fertwdi fertwdin
-------------+------------------
     fertwdi |   1.0000
```

```
    fertwdin |   0.6135   1.0000
```

Model 2-9: Robust Ck 4.2: Endog ck: Does CI predict HER in presence of exog regressors?

```
. ivreg limrcom lgdph giniavni ethnl musl (fertwdi = fertwdin) lpopd urbwdi watecom, first

First-stage regressions
-----------------------

      Source |       SS       df       MS              Number of obs =     105
-------------+------------------------------           F(  8,    96) =   38.08
       Model |  221.630495     8  27.7038119           Prob > F      =  0.0000
    Residual |  69.8371279    96  .727470082           R-squared     =  0.7604
-------------+------------------------------           Adj R-squared =  0.7404
       Total |  291.467623   104   2.8025733           Root MSE      =  .85292

------------------------------------------------------------------------------
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.3168287   .1956677    -1.62   0.109    -.7052261    .0715686
    giniavni |   .0197636   .0109639     1.80   0.075    -.0019997    .0415268
       ethnl |   .2106116   .3325809     0.63   0.528    -.4495563    .8707795
        musl |   1.072902   .2704566     3.97   0.000     .5360493    1.609754
       lpopd |  -.1499104   .0633013    -2.37   0.020    -.2755624   -.0242584
      urbwdi |  -.0133928   .0064556    -2.07   0.041    -.0262072   -.0005785
     watecom |    -.02227   .0057408    -3.88   0.000    -.0336653   -.0108747
    fertwdin |    .311362   .0619414     5.03   0.000     .1884092    .4343148
       _cons |   7.329993   1.335273     5.49   0.000     4.679498    9.980489
------------------------------------------------------------------------------
```

Model 2-9: Robust Check 4.3: Endog ck: 2SLS using fertwdin as instrument for fertwdi

```
Instrumental variables (2SLS) regression

      Source |       SS       df       MS              Number of obs =     105
-------------+------------------------------           F(  8,    96) =   67.25
       Model |  57.5961151     8  7.19951439           Prob > F      =  0.0000
    Residual |   10.218404    96  .106441709           R-squared     =  0.8493
-------------+------------------------------           Adj R-squared =  0.8368
       Total |  67.8145191   104  .652062684           Root MSE      =  .32625

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
     fertwdi |   .0751192   .0760964     0.99   0.326     -.075931    .2261693
       lgdph |  -.4846927   .0851182    -5.69   0.000     -.653651   -.3157345
    giniavni |   .0096995   .0045402     2.14   0.035     .0006872    .0187118
       ethnl |   .2116118   .1322112     1.60   0.113    -.0508253    .4740489
        musl |    .382914   .1560428     2.45   0.016     .0731714    .6926566
       lpopd |  -.0658585   .0261755    -2.52   0.014    -.1178165   -.0139004
      urbwdi |  -.0040531   .0025173    -1.61   0.111    -.0090499    .0009438
     watecom |  -.0032921   .0028659    -1.15   0.254    -.0089808    .0023966
       _cons |   7.364971   .9086783     8.11   0.000     5.561259    9.168683
------------------------------------------------------------------------------
Instrumented:  fertwdi
Instruments:   lgdph giniavni ethnl musl lpopd urbwdi watecom fertwdin
------------------------------------------------------------------------------
```

Model 2-9: Robust Check 4.4: Endog ck: Hausman test for diff btw coeff of OLS & of 2SLS

```
. estimates store imrwate

. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi watecom

      Source |       SS       df       MS              Number of obs =     105
-------------+------------------------------           F(  8,    96) =   67.65
       Model |  57.5982448     8   7.1997806           Prob > F      =  0.0000
    Residual |  10.2162744    96  .106419524           R-squared     =  0.8493
-------------+------------------------------           Adj R-squared =  0.8368
       Total |  67.8145191   104  .652062684           Root MSE      =  .32622

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4876714   .0745598    -6.54   0.000    -.6356714   -.3396714
    giniavni |    .009813   .0042619     2.30   0.023     .0013531    .0182729
       ethnl |    .214739   .1249782     1.72   0.089    -.0333408    .4628189
        musl |    .390946    .109985     3.55   0.001     .1726275    .6092644
     fertwdi |   .0702058    .034732     2.02   0.046     .0012633    .1391484
       lpopd |  -.0665065   .0246026    -2.70   0.008    -.1153422   -.0176708
      urbwdi |  -.0040935   .0024545    -1.67   0.099    -.0089656    .0007786
     watecom |  -.0034114   .0023471    -1.45   0.149    -.0080704    .0012476
       _cons |   7.415669   .5809949    12.76   0.000     6.262404    8.568935
------------------------------------------------------------------------------

. hausman imrwate

                 ---- Coefficients ----
              |      (b)          (B)            (b-B)     sqrt(diag(V_b-V_B))
              |    imrwate         .          Difference          S.E.
-------------+------------------------------------------------------------
     fertwdi |    .0751192     .0702058        .0049133        .0677078
       lgdph |   -.4846927    -.4876714        .0029787        .0410602
    giniavni |    .0096995      .009813       -.0001135        .0015651
       ethnl |    .2116118      .214739       -.0031272        .0431304
        musl |     .382914      .390946        -.008032        .1106918
       lpopd |   -.0658585    -.0665065         .000648        .0089372
      urbwdi |   -.0040531    -.0040935        .0000405        .0005588
     watecom |   -.0032921    -.0034114        .0001193        .0016445
------------------------------------------------------------------------------
                           b = consistent under Ho and Ha; obtained from ivreg
         B = inconsistent under Ha, efficient under Ho; obtained from regress

    Test:  Ho:  difference in coefficients not systematic

                  chi2(8) = (b-B)'[(V_b-V_B)^(-1)](b-B)
                          =        0.01
                Prob>chi2 =      1.0000
```

Model 2-9: Robust Check 5.1: DepV: change IMR to U5MR (limrcom to lu5mrcom)

```
. regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi watecom, r

Linear regression                                       Number of obs =     105
                                                        F(  8,    96) =  104.64
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8507
                                                        Root MSE      =  .37096

------------------------------------------------------------------------------
             |               Robust
    lu5mrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
```

```
       lgdph |  -.5091913   .0894301    -5.69   0.000    -.6867087   -.3316739
    giniavni |   .0079151   .0063566     1.25   0.216    -.0047027    .0205328
       ethnl |   .2937018   .1399495     2.10   0.038     .0159043    .5714993
        musl |   .3348792   .1186598     2.82   0.006     .0993413    .5704171
     fertwdi |   .1091461   .0382128     2.86   0.005     .0332943    .1849979
       lpopd |  -.0718578    .034916    -2.06   0.042    -.1411656   -.0025501
      urbwdi |  -.0042878   .0026546    -1.62   0.110    -.0095571    .0009815
     watecom |  -.0041011   .0021627    -1.90   0.061     -.008394    .0001918
       _cons |   7.849194   .7678223    10.22   0.000     6.325078    9.373309
------------------------------------------------------------------------------
```

Model 2-9: Robust Check 5.2: DepV: Vary source: infant mortality (limrcom to limrwdi)

```
. regress limrwdi lgdph giniavni ethnl musl fertwdi lpopd urbwdi watecom, r

Linear regression                                      Number of obs =     105
                                                       F(  8,    96) =   97.02
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8643
                                                       Root MSE      =  .30738

------------------------------------------------------------------------------
             |               Robust
     limrwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4892416   .0687012    -7.12   0.000    -.6256125   -.3528708
    giniavni |   .0112174   .0051401     2.18   0.032     .0010143    .0214204
       ethnl |   .1602309   .1084036     1.48   0.143    -.0549486    .3754105
        musl |   .3147424   .1015461     3.10   0.003     .1131751    .5163097
     fertwdi |   .0962409   .0317785     3.03   0.003      .033161    .1593207
       lpopd |  -.0451627   .0244726    -1.85   0.068    -.0937404     .003415
      urbwdi |  -.0041431   .0022667    -1.83   0.071    -.0086426    .0003563
     watecom |  -.0024623   .0017762    -1.39   0.169     -.005988    .0010634
       _cons |   7.147032   .5898642    12.12   0.000     5.976161    8.317903
------------------------------------------------------------------------------
```

Model 2-9: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)

```
. regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi watecom, r

Linear regression                                      Number of obs =     104
                                                       F(  8,    95) =   90.20
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8546
                                                       Root MSE      =  .32193

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |  -.4930697   .0741729    -6.65   0.000    -.6403214    -.345818
    giniavni |   .0100578     .00473     2.13   0.036     .0006676     .019448
       ethnl |   .2050697   .1162306     1.76   0.081    -.0256772    .4358167
        musl |   .2933813   .1073837     2.73   0.008     .0801977    .5065649
     fertwdi |   .0621914   .0361931     1.72   0.089     -.009661    .1340439
       lpopd |  -.0770401   .0253256    -3.04   0.003    -.1273178   -.0267625
      urbwdi |  -.0056543   .0021294    -2.66   0.009    -.0098817   -.0014268
     watecom |  -.0022021   .0019146    -1.15   0.253    -.0060031    .0015989
       _cons |   7.551233   .6466695    11.68   0.000     6.267432    8.835035
------------------------------------------------------------------------------
```

Model 2-9: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

```
. regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi watecom gdpmf, r

Linear regression                                       Number of obs =     104
                                                        F(  9,    94) =   82.44
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8548
                                                        Root MSE      =  .32344

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |  -.4883293   .0765466    -6.38   0.000    -.6403144   -.3363443
    giniavni |   .0098464   .0048712     2.02   0.046     .0001746    .0195183
       ethnl |   .2123875   .1175693     1.81   0.074    -.0210491    .4458242
        musl |   .2924278   .1076137     2.72   0.008     .0787582    .5060973
     fertwdi |   .0597125   .0376701     1.59   0.116    -.0150824    .1345074
       lpopd |  -.0785148   .0261925    -3.00   0.003    -.1305207    -.026509
      urbwdi |  -.0057746   .0021714    -2.66   0.009    -.0100861   -.0014632
     watecom |  -.0022989   .0019787    -1.16   0.248    -.0062278    .0016299
       gdpmf |  -.0610086   .1315556    -0.46   0.644    -.3222154    .2001982
       _cons |   7.553383   .6529277    11.57   0.000      6.25698    8.849786
------------------------------------------------------------------------------
```

Model 2-9: Robust Check 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)

```
. regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi watecom, r

Linear regression                                       Number of obs =     105
                                                        F(  8,    96) =   97.97
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8487
                                                        Root MSE      =   .3269

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4725924   .0776987    -6.08   0.000    -.6268232   -.3183616
    giniavni |   .0104429   .0056072     1.86   0.066    -.0006874    .0215731
    ethnannx |   .2400932       .155     1.55   0.125    -.0675793    .5477657
        musl |   .3835317   .1073746     3.57   0.001     .1703947    .5966687
     fertwdi |   .0783037   .0340779     2.30   0.024     .0106596    .1459478
       lpopd |  -.0618562    .030693    -2.02   0.047    -.1227814    -.000931
      urbwdi |  -.0046905   .0024011    -1.95   0.054    -.0094566    .0000756
     watecom |  -.0033509   .0019461    -1.72   0.088    -.0072139    .0005121
       _cons |   7.189404   .7078491    10.16   0.000     5.784334    8.594473
------------------------------------------------------------------------------
```

Model 2-9: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

```
. regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi watecom ethnannf
> , r

Linear regression                                       Number of obs =     105
                                                        F(  9,    95) =   83.37
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8503
                                                        Root MSE      =  .32684
```

```
------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4969675   .0845287    -5.88   0.000    -.6647782   -.3291567
    giniavni |   .0093057     .00566     1.64   0.103    -.0019308    .0205421
    ethnannx |   .2221512   .1575781     1.41   0.162     -.090681    .5349833
        musl |   .3889343   .1067008     3.65   0.000     .1771064    .6007623
     fertwdi |   .0710288    .034589     2.05   0.043      .002361    .1396965
       lpopd |  -.0621849   .0304103    -2.04   0.044    -.1225571   -.0018128
      urbwdi |  -.0037895   .0025967    -1.46   0.148    -.0089447    .0013657
     watecom |  -.0037781   .0020833    -1.81   0.073     -.007914    .0003578
    ethnannf |  -.1407225   .1584312    -0.89   0.377    -.4552482    .1738032
       _cons |   7.470118   .7773105     9.61   0.000     5.926962    9.013275
------------------------------------------------------------------------------
```

Table 2.2, Model 2-10: Access to Improved Sanitation and Infant Mortality

Model 2-10: Bivariate correlations among independent variables

```
correlate lgdph giniavni ethnl musl fertwdi lpopd urbwdi sanicom
(obs=102)
```

```
             |    lgdph giniavni    ethnl     musl  fertwdi    lpopd   urbwdi
-------------+---------------------------------------------------------------
       lgdph |   1.0000
    giniavni |  -0.0089   1.0000
       ethnl |  -0.4762   0.2450   1.0000
        musl |   0.3118  -0.2976  -0.2896   1.0000
     fertwdi |  -0.6393   0.1244   0.4297   0.1206   1.0000
       lpopd |   0.1331  -0.3160  -0.1810  -0.1179  -0.3650   1.0000
      urbwdi |   0.8187   0.0030  -0.4408   0.2880  -0.5760   0.0326   1.0000
     sanicom |   0.8238  -0.1412  -0.4585   0.2372  -0.6596   0.1616   0.7661
```

Model 2-10: Infant mortality predicted by 7 baseline variables only (same as Model 2-3)

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r

Linear regression                               Number of obs =     105
                                                F(  7,    97) =  115.48
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8460
                                                Root MSE      =  .32809

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5106892   .0728516    -7.01   0.000    -.6552793    -.366099
    giniavni |   .0098456   .0057971     1.70   0.093      -.00166    .0213512
       ethnl |   .2291501   .1208339     1.90   0.061    -.0106718     .468972
        musl |   .3573075   .1090143     3.28   0.001     .1409443    .5736707
     fertwdi |   .0883452   .0306893     2.88   0.005     .0274354    .1492551
       lpopd |  -.0713372   .0317142    -2.25   0.027    -.1342811   -.0083933
      urbwdi |  -.0046217   .0022445    -2.06   0.042    -.0090765   -.0001669
       _cons |   7.311515   .6431156    11.37   0.000     6.035109    8.587922
------------------------------------------------------------------------------
```

Model 2-10: Infant mortality predicted by 7 baseline var. and access to improved sanitation

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi sanicom, r

Linear regression                                       Number of obs =     102
                                                        F(  8,    93) =   72.97
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8446
                                                        Root MSE      =  .31671

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.3925397   .0771795    -5.09   0.000     -.545803   -.2392764
    giniavni |   .0067525   .0058518     1.15   0.251    -.0048679    .0183729
       ethnl |   .2365155   .1124566     2.10   0.038      .013199    .4598321
        musl |   .3339288   .1102725     3.03   0.003     .1149496    .5529081
     fertwdi |   .0712898   .0332693     2.14   0.035     .0052235     .137356
       lpopd |  -.0712563   .0367101    -1.94   0.055    -.1441552    .0016426
      urbwdi |  -.0020539    .002255    -0.91   0.365    -.0065319    .0024241
     sanicom |  -.0067957   .0018458    -3.68   0.000    -.0104611   -.0031302
       _cons |   6.890374   .6797207    10.14   0.000     5.540583    8.240164
------------------------------------------------------------------------------
```

Model 2-10: Means and SDs of access to improved sanitation and infant mortality

```
. summarize imrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
      imrcom |       105    70.13333    45.54712          6        202

. summarize limrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     limrcom |       105    3.985123     .807504   1.791759   5.308268

. summarize sanicom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     sanicom |       102    52.36275    29.26011          3        100
```

Model 2-10: How much would infant mortality fall if access to sanitation rose one SD?

```
. estsimp regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi sanicom, r

Linear regression                                       Number of obs =     102
                                                        F(  8,    93) =   72.97
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8446
                                                        Root MSE      =  .31671

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.3925397   .0771795    -5.09   0.000     -.545803   -.2392764
```

```
    giniavni |   .0067525   .0058518     1.15   0.251    -.0048679    .0183729
       ethnl |   .2365155   .1124566     2.10   0.038      .013199    .4598321
        musl |   .3339288   .1102725     3.03   0.003     .1149496    .5529081
     fertwdi |   .0712898   .0332693     2.14   0.035     .0052235     .137356
       lpopd |  -.0712563   .0367101    -1.94   0.055    -.1441552    .0016426
      urbwdi |  -.0020539    .002255    -0.91   0.365    -.0065319    .0024241
     sanicom |  -.0067957   .0018458    -3.68   0.000    -.0104611   -.0031302
       _cons |   6.890374   .6797207    10.14   0.000     5.540583    8.240164
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....

Note: Clarify is expanding your dataset from 105 observations to 1000
observations in order to accommodate the simulations.  This will append
missing values to the bottom of your original dataset.

% of simulations completed: 11% 22% 33% 44% 55% 66% 77% 88% 100%

. setx mean

. simqi, tfunc(exp) fd(ev) changex(sanicom 52.36275 81.62286)

First Difference: sanicom 52.36275 81.62286

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
         dE[exp(limrcom)] |  -10.45067     2.710295    -15.56707   -5.009596
```

Model 2-10: Robustness checks

Model 2-10: Robust Check 1.1: Change specification: Exclude fertility

```
. regress limrcom lgdph giniavni ethnl musl lpopd urbwdi sanicom, r

Linear regression                                      Number of obs =     102
                                                       F(  7,    94) =   86.03
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8367
                                                       Root MSE      =  .32292

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4373057   .0728727    -6.00   0.000    -.5819961   -.2926152
    giniavni |   .0082304   .0060177     1.37   0.175    -.0037178    .0201786
       ethnl |    .287771   .1158186     2.48   0.015     .0578105    .5177314
        musl |    .445417   .1013719     4.39   0.000     .2441406    .6466933
       lpopd |  -.0845035    .035056    -2.41   0.018    -.1541081    -.014899
      urbwdi |  -.0027982   .0022199    -1.26   0.211    -.0072059    .0016095
     sanicom |    -.00776   .0018177    -4.27   0.000    -.0113691   -.0041509
       _cons |   7.596917   .5664155    13.41   0.000     6.472286    8.721548
------------------------------------------------------------------------------
```

Model 2-10: Robust Check 1.2: Change specification: Include female schooling

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi sanicom mysfx, r

Linear regression                                      Number of obs =     102
                                                       F(  9,    92) =   70.99
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8584
```

```
                                                      Root MSE      =  .30398

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.3563297   .0758712    -4.70   0.000    -.5070165   -.2056428
    giniavni |   .0076562   .0057581     1.33   0.187    -.0037798    .0190923
       ethnl |   .1621017   .1096578     1.48   0.143    -.0556882    .3798916
        musl |   .2170755   .1060194     2.05   0.043     .0065118    .4276392
     fertwdi |   .0190187   .0349253     0.54   0.587     -.050346    .0883833
       lpopd |  -.0856704     .03742    -2.29   0.024    -.1599897   -.0113511
      urbwdi |  -.0016045   .0022322    -0.72   0.474    -.0060378    .0028289
     sanicom |  -.0055745   .0018794    -2.97   0.004    -.0093071   -.0018418
       mysfx |  -.0830382   .0263884    -3.15   0.002    -.1354478   -.0306285
       _cons |   7.146941   .6992749    10.22   0.000     5.758121    8.535762
------------------------------------------------------------------------------
```

Model 2-10: Robust Check 1.3: Change specification: Include female literacy

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi sanicom litfewdi, r

Linear regression                                     Number of obs =     102
                                                      F(  9,    92) =   64.95
                                                      Prob > F      =  0.0000
                                                      R-squared     =  0.8521
                                                      Root MSE      =  .31067

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.3873563   .0746785    -5.19   0.000    -.5356743   -.2390384
    giniavni |   .0081633   .0059093     1.38   0.170    -.0035731    .0198997
       ethnl |   .1583481   .1092413     1.45   0.151    -.0586146    .3753107
        musl |   .2321246   .1127308     2.06   0.042     .0082314    .4560177
     fertwdi |   .0274454   .0363952     0.75   0.453    -.0448386    .0997294
       lpopd |  -.0827111   .0366847    -2.25   0.027    -.1555701   -.0098521
      urbwdi |  -.0019874   .0022962    -0.87   0.389     -.006548    .0025731
     sanicom |  -.0053685   .0019442    -2.76   0.007    -.0092299    -.001507
    litfewdi |  -.0049357   .0021636    -2.28   0.025    -.0092328   -.0006385
       _cons |   7.289939   .7022631    10.38   0.000     5.895183    8.684694
------------------------------------------------------------------------------
```

Model 2-10: Robust Check 1.4: Change specification: Include geographical variables

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi sanicom airdist popcrgs latcapab, r

Linear regression                                     Number of obs =     102
                                                      F( 11,    90) =   54.39
                                                      Prob > F      =  0.0000
                                                      R-squared     =  0.8510
                                                      Root MSE      =  .31527

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.3726837   .0769058    -4.85   0.000    -.5254704    -.219897
    giniavni |   .0079982   .0055791     1.43   0.155    -.0030857     .019082
       ethnl |   .2866397   .1083714     2.64   0.010      .071341    .5019384
        musl |   .2643011   .1208758     2.19   0.031     .0241603    .5044419
     fertwdi |   .0824744   .0383055     2.15   0.034     .0063739    .1585749
```

```
       lpopd |   -.055318   .0344202    -1.61   0.112    -.1236998    .0130637
      urbwdi |  -.0021944   .0022194    -0.99   0.325    -.0066037    .0022149
     sanicom |  -.0066337   .0019559    -3.39   0.001    -.0105194   -.0027479
     airdist |   -.000013   .0000174    -0.75   0.458    -.0000475    .0000216
     popcrgs |  -.0011008     .00105    -1.05   0.297    -.0031868    .0009853
    latcapab |   .0052043   .0037516     1.39   0.169    -.0022489    .0126575
       _cons |   6.591065   .6618971     9.96   0.000     5.276091    7.906039
------------------------------------------------------------------------------
```

Model 2-10: Robust Check 1.5: Change specification: Include regional dummy variables

```
regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi sanicom afri lati east sout, r

Linear regression                               Number of obs =     102
                                                F( 12,    89) =   55.84
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8475
                                                Root MSE      =  .32069

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4041078   .0840232    -4.81   0.000    -.5710601   -.2371555
    giniavni |   .0078177   .0060952     1.28   0.203    -.0042933    .0199287
       ethnl |   .2507664   .1342813     1.87   0.065    -.0160477    .5175805
        musl |   .2102545   .0937663     2.24   0.027     .0239428    .3965662
     fertwdi |   .0641329   .0403296     1.59   0.115    -.0160011     .144267
       lpopd |  -.0757521   .0384504    -1.97   0.052    -.1521522     .000648
      urbwdi |  -.0019729     .00283    -0.70   0.488    -.0075961    .0036502
     sanicom |  -.0070375   .0020021    -3.51   0.001    -.0110157   -.0030592
        afri |  -.1864248   .1015766    -1.84   0.070    -.3882554    .0154058
        lati |  -.1899371   .1353312    -1.40   0.164    -.4588373    .0789631
        east |  -.1971346   .1569724    -1.26   0.212    -.5090354    .1147662
        sout |  -.0942961   .1757492    -0.54   0.593    -.4435059    .2549137
       _cons |   7.160058   .7025021    10.19   0.000     5.764202    8.555915
------------------------------------------------------------------------------
```

Model 2-10: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi sanicom gdphf giniavnf ethnlf, r

Linear regression                               Number of obs =     102
                                                F( 10,    91) =   56.26
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8508
                                                Root MSE      =  .31369

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.3909138    .075919    -5.15   0.000    -.5417176     -.24011
    giniavni |   .0045345   .0058904     0.77   0.443     -.007166    .0162351
       ethnl |   .2063489    .114456     1.80   0.075    -.0210039    .4337017
        musl |   .3155838   .1090344     2.89   0.005     .0990005    .5321672
     fertwdi |   .0871194   .0329252     2.65   0.010     .0217175    .1525212
       lpopd |  -.0734313   .0352788    -2.08   0.040    -.1435083   -.0033543
      urbwdi |  -.0015275   .0023141    -0.66   0.511    -.0061242    .0030691
     sanicom |  -.0060514   .0019595    -3.09   0.003    -.0099437   -.0021591
       gdphf |  (dropped)
    giniavnf |  -.0111894   .0729368    -0.15   0.878    -.1560694    .1336906
```

```
      ethnlf |  -.2832388    .178051    -1.59   0.115    -.6369152    .0704376
       _cons |   6.880841    .632859    10.87   0.000     5.623744    8.137937
------------------------------------------------------------------------------
```

Model 2-10: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi sanicom

   Huber iteration 1:  maximum difference in weights = .55387808
   Huber iteration 2:  maximum difference in weights = .15891086
   Huber iteration 3:  maximum difference in weights = .058084
   Huber iteration 4:  maximum difference in weights = .01233931
Biweight iteration 5:  maximum difference in weights = .18548726
Biweight iteration 6:  maximum difference in weights = .03046153
Biweight iteration 7:  maximum difference in weights = .01400725
Biweight iteration 8:  maximum difference in weights = .00382491

Robust regression                                     Number of obs =     102
                                                      F(  8,    93) =   59.69
                                                      Prob > F      =  0.0000

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.3752351   .0823483    -4.56   0.000    -.5387625   -.2117076
    giniavni |   .0093682   .0044427     2.11   0.038      .000546    .0181905
       ethnl |   .2654827   .1263661     2.10   0.038     .0145446    .5164208
        musl |   .3546343   .1102349     3.22   0.002     .1357298    .5735389
     fertwdi |   .0764923   .0340217     2.25   0.027      .008932    .1440526
       lpopd |  -.0418226   .0258902    -1.62   0.110    -.0932355    .0095902
      urbwdi |  -.0023009   .0026101    -0.88   0.380     -.007484    .0028822
     sanicom |  -.0073781   .0021971    -3.36   0.001    -.0117411    -.003015
       _cons |    6.52733    .601311    10.86   0.000     5.333246    7.721415
------------------------------------------------------------------------------
```

Model 2-10: Robust Check 3.2: Outlier checks: Median regression

```
. qreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi sanicom
Iteration  1:  WLS sum of weighted deviations =   25.06439

Iteration  1: sum of abs. weighted deviations =  25.361472
Iteration  2: sum of abs. weighted deviations =  24.888519
Iteration  3: sum of abs. weighted deviations =  24.851139
Iteration  4: sum of abs. weighted deviations =  24.613531
Iteration  5: sum of abs. weighted deviations =  24.606678
Iteration  6: sum of abs. weighted deviations =  24.577554
Iteration  7: sum of abs. weighted deviations =  24.566944
Iteration  8: sum of abs. weighted deviations =  24.546452
Iteration  9: sum of abs. weighted deviations =  24.536221
Iteration 10: sum of abs. weighted deviations =  24.510662
Iteration 11: sum of abs. weighted deviations =  24.496837
Iteration 12: sum of abs. weighted deviations =  24.486956
Iteration 13: sum of abs. weighted deviations =  24.448168
Iteration 14: sum of abs. weighted deviations =  24.430248
Iteration 15: sum of abs. weighted deviations =   24.40737
Iteration 16: sum of abs. weighted deviations =  24.389818

Median regression                                   Number of obs =       102
  Raw sum of deviations 63.87039 (about 4.1431346)
  Min sum of deviations 24.38982                    Pseudo R2     =    0.6181

------------------------------------------------------------------------------
```

```
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.2652755   .1313257    -2.02   0.046    -.5260622   -.0044887
    giniavni |   .0088065   .0074174     1.19   0.238    -.0059229    .0235359
       ethnl |   .2912498   .2078874     1.40   0.165    -.1215733    .7040729
        musl |   .2915659   .1774564     1.64   0.104    -.0608274    .6439592
     fertwdi |   .0868388   .0548241     1.58   0.117    -.0220309    .1957085
       lpopd |  -.0319492   .0426377    -0.75   0.456    -.1166192    .0527208
      urbwdi |  -.0016191   .0041174    -0.39   0.695    -.0097954    .0065573
     sanicom |  -.0088737   .0035251    -2.52   0.014    -.0158738   -.0018736
       _cons |   5.746344   .9618477     5.97   0.000     3.836305    7.656383
------------------------------------------------------------------------------
```

Model 2-10: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd

```
 regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi sanicom if ctry ~=
> "Mongolia" & ctry ~= "Cuba", r

Linear regression                                      Number of obs =     100
                                                       F(  8,    91) =   68.14
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8595
                                                       Root MSE      =  .29642

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4142016   .0710708    -5.83   0.000     -.555375   -.2730281
    giniavni |   .0084747   .0051179     1.66   0.101    -.0016914    .0186408
       ethnl |   .2723105   .1075736     2.53   0.013     .0586288    .4859923
        musl |   .3787388   .0963171     3.93   0.000     .1874167     .570061
     fertwdi |   .0676307   .0322582     2.10   0.039     .0035538    .1317077
       lpopd |  -.0449282   .0305685    -1.47   0.145    -.1056488    .0157925
      urbwdi |  -.0015414   .0021953    -0.70   0.484    -.0059021    .0028194
     sanicom |   -.006783   .0018264    -3.71   0.000    -.0104108   -.0031552
       _cons |   6.849351   .5963946    11.48   0.000     5.664686    8.034016
------------------------------------------------------------------------------
```

Model 2-10: Robust Ck 4.1: Endog ck: Corr cand. inst (fertwdin) & hyp endg reg (fertwdi)

```
. correlate fertwdi fertwdin
(obs=105)

             |  fertwdi fertwdin
-------------+------------------
     fertwdi |   1.0000
    fertwdin |   0.6135   1.0000
```

Model 2-10: Robust Ck 4.2: Endog ck: Does CI predict HER in presence of exog regressors?

```
. ivreg limrcom lgdph giniavni ethnl musl (fertwdi = fertwdin) lpopd urbwdi sanicom, first

First-stage regressions
-----------------------

      Source |       SS       df       MS              Number of obs =     102
-------------+------------------------------           F(  8,    93) =   30.10
       Model |  192.219143     8  24.0273929           Prob > F      =  0.0000
    Residual |  74.2260566    93   .79812964           R-squared     =  0.7214
-------------+------------------------------           Adj R-squared =  0.6975
```

```
       Total |    266.4452   101  2.63807128           Root MSE      =  .89338

------------------------------------------------------------------------------
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.3274069   .2248998    -1.46   0.149    -.7740132    .1191995
    giniavni |   .0180859    .011942     1.51   0.133    -.0056285    .0418003
       ethnl |    .254901   .3503446     0.73   0.469    -.4408139    .9506159
        musl |    1.00317   .2866301     3.50   0.001       .43398    1.572361
       lpopd |  -.2154067   .0685518    -3.14   0.002     -.351537   -.0792765
      urbwdi |  -.0165918   .0071448    -2.32   0.022    -.0307801   -.0024036
     sanicom |  -.0121936   .0058495    -2.08   0.040    -.0238095   -.0005777
    fertwdin |   .3214521   .0658939     4.88   0.000     .1905999    .4523043
       _cons |   6.925731   1.485938     4.66   0.000     3.974952     9.87651
------------------------------------------------------------------------------
```

Model 2-10: Robust Check 4.3: Endog ck: 2SLS using fertwdin as instrument for fertwdi

```
Instrumental variables (2SLS) regression

      Source |       SS       df       MS              Number of obs =     102
-------------+------------------------------           F(  8,    93) =   62.71
       Model |  50.6957945     8  6.33697432           Prob > F      =  0.0000
    Residual |  9.32832055    93  .100304522           R-squared     =  0.8446
-------------+------------------------------           Adj R-squared =  0.8312
       Total |  60.0241151   101  .594298169           Root MSE      =  .31671

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
     fertwdi |    .071356   .0726695     0.98   0.329    -.0729512    .2156633
       lgdph |  -.3924981   .0892297    -4.40   0.000    -.5696906   -.2153056
    giniavni |   .0067511   .0044895     1.50   0.136     -.002164    .0156663
       ethnl |   .2364679   .1304529     1.81   0.073    -.0225856    .4955214
        musl |   .3338252   .1469019     2.27   0.025     .0421071    .6255433
       lpopd |   -.071244   .0277185    -2.57   0.012    -.1262874   -.0162006
      urbwdi |  -.0020532    .002606    -0.79   0.433    -.0072283    .0031218
     sanicom |  -.0067948   .0022928    -2.96   0.004    -.0113478   -.0022417
       _cons |   6.889717   .8655327     7.96   0.000     5.170941    8.608494
------------------------------------------------------------------------------
Instrumented:  fertwdi
Instruments:   lgdph giniavni ethnl musl lpopd urbwdi sanicom fertwdin
------------------------------------------------------------------------------
```

Model 2-10: Robust Check 4.4: Endog ck: Hausman test for diff btw coeff of OLS & of 2SLS

```
. estimates store imrsani

. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi sanicom

      Source |       SS       df       MS              Number of obs =     102
-------------+------------------------------           F(  8,    93) =   63.18
       Model |  50.6957949     8  6.33697437           Prob > F      =  0.0000
    Residual |  9.32832014    93  .100304518           R-squared     =  0.8446
-------------+------------------------------           Adj R-squared =  0.8312
       Total |  60.0241151   101  .594298169           Root MSE      =  .31671

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.3925397   .0793971    -4.94   0.000    -.5502066   -.2348728
    giniavni |   .0067525   .0042835     1.58   0.118    -.0017536    .0152586
```

```
       ethnl |   .2365155   .1218374     1.94   0.055    -.0054294    .4784605
        musl |   .3339288   .1062842     3.14   0.002     .1228694    .5449883
     fertwdi |   .0712898   .0328024     2.17   0.032     .0061507    .1364288
       lpopd |  -.0712563   .0249624    -2.85   0.005    -.1208266    -.021686
      urbwdi |  -.0020539   .0025165    -0.82   0.416    -.0070513    .0029434
     sanicom |  -.0067957   .0021184    -3.21   0.002    -.0110024    -.002589
       _cons |   6.890374   .5797612    11.88   0.000     5.739083    8.041665
------------------------------------------------------------------------------

. hausman imrsani

Note: the rank of the differenced variance matrix (3) does not equal the number of coefficients
being tested (8); be sure this is what you expect, or there may be problems computing the test.
Examine the output of your estimators for anything unexpected and possibly consider scaling your
variables so that the coefficients are on a similar scale.

                ---- Coefficients ----
             |      (b)          (B)            (b-B)     sqrt(diag(V_b-V_B))
             |    imrsani         .          Difference          S.E.
-------------+------------------------------------------------------------
     fertwdi |     .071356     .0712898        .0000663        .0648449
       lgdph |   -.3924981    -.3925397        .0000416         .040719
    giniavni |    .0067511     .0067525       -1.37e-06        .0013443
       ethnl |    .2364679     .2365155       -.0000476        .0466218
        musl |    .3338252     .3339288       -.0001036        .1014092
       lpopd |    -.071244    -.0712563        .0000123        .0120496
      urbwdi |   -.0020532    -.0020539        6.92e-07         .000677
     sanicom |   -.0067948    -.0067957        8.96e-07        .0008771
------------------------------------------------------------------------------
                           b = consistent under Ho and Ha; obtained from ivreg
        B = inconsistent under Ha, efficient under Ho; obtained from regress

    Test:  Ho:  difference in coefficients not systematic

                 chi2(3) = (b-B)'[(V_b-V_B)^(-1)](b-B)
                         =        0.00
               Prob>chi2 =      1.0000
```

Model 2-10: Robust Check 5.1: DepV: change IMR to U5MR (limrcom to lu5mrcom)

```
. regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi sanicom, r

Linear regression                                      Number of obs =     102
                                                       F(  8,    93) =   80.83
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8464
                                                       Root MSE      =  .36285

------------------------------------------------------------------------------
             |               Robust
    lu5mrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4096311   .0978108    -4.19   0.000    -.6038639   -.2153982
    giniavni |   .0047237   .0066672     0.71   0.480    -.0085161    .0179635
       ethnl |   .3147545   .1332603     2.36   0.020     .0501259    .5793831
        musl |   .2678857   .1221563     2.19   0.031     .0253075    .5104638
     fertwdi |   .1151728   .0387785     2.97   0.004     .0381663    .1921793
       lpopd |  -.0818321   .0405013    -2.02   0.046    -.1622596   -.0014046
      urbwdi |  -.0024012   .0026894    -0.89   0.374    -.0077418    .0029394
     sanicom |  -.0071498   .0021599    -3.31   0.001    -.0114389   -.0028606
       _cons |   7.271886   .8159934     8.91   0.000     5.651484    8.892287
------------------------------------------------------------------------------
```

Model 2-10: Robust Check 5.2: DepV: Vary source: infant mortality (limrcom to limrwdi)

```
. regress limrwdi lgdph giniavni ethnl musl fertwdi lpopd urbwdi sanicom, r

Linear regression                                       Number of obs =     102
                                                        F(  8,    93) =   79.79
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8626
                                                        Root MSE      =  .29485

------------------------------------------------------------------------------
             |               Robust
     limrwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.3992965   .0718562    -5.56   0.000    -.5419887   -.2566044
    giniavni |   .0086589   .0052738     1.64   0.104    -.0018139    .0191317
       ethnl |    .173157   .1005496     1.72   0.088    -.0265145    .3728285
        musl |   .2876611   .1052309     2.73   0.007     .0786934    .4966287
     fertwdi |   .0850558    .031474     2.70   0.008     .0225547    .1475569
       lpopd |  -.0439106   .0289945    -1.51   0.133    -.1014879    .0136666
      urbwdi |   -.002201   .0022786    -0.97   0.337    -.0067258    .0023238
     sanicom |  -.0065992   .0017749    -3.72   0.000    -.0101239   -.0030746
       _cons |   6.728444   .6184246    10.88   0.000     5.500375    7.956512
------------------------------------------------------------------------------
```

Model 2-10: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)

```
. regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi sanicom, r

Linear regression                                       Number of obs =     101
                                                        F(  8,    92) =   67.09
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8492
                                                        Root MSE      =  .31355

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdpmx |  -.4099485   .0808898    -5.07   0.000    -.5706027   -.2492944
    giniavni |   .0077065   .0048487     1.59   0.115    -.0019235    .0173365
       ethnl |   .2212194   .1113849     1.99   0.050    -5.67e-07    .4424394
        musl |   .2775262   .1069672     2.59   0.011     .0650801    .4899722
     fertwdi |   .0584133    .036241     1.61   0.110    -.0135645    .1303911
       lpopd |  -.0786456   .0315549    -2.49   0.014    -.1413165   -.0159748
      urbwdi |  -.0031364   .0023429    -1.34   0.184    -.0077897    .0015168
     sanicom |  -.0063646   .0020718    -3.07   0.003    -.0104793     -.00225
       _cons |   7.122723   .7245959     9.83   0.000     5.683613    8.561833
------------------------------------------------------------------------------
```

Model 2-10: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

```
. regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi sanicom gdpmf, r

Linear regression                                       Number of obs =     101
                                                        F(  9,    91) =   58.72
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8493
                                                        Root MSE      =  .31514

------------------------------------------------------------------------------
```

limrcom	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
lgdpmx	-.4112695	.0814547	-5.05	0.000	-.5730693	-.2494697
giniavni	.007741	.0048925	1.58	0.117	-.0019773	.0174593
ethnl	.2160287	.1128721	1.91	0.059	-.0081778	.4402352
musl	.2775071	.108045	2.57	0.012	.0628889	.4921253
fertwdi	.0601154	.0367947	1.63	0.106	-.0129727	.1332036
lpopd	-.076751	.0333005	-2.30	0.023	-.1428983	-.0106037
urbwdi	-.0029091	.0025448	-1.14	0.256	-.007964	.0021458
sanicom	-.0064799	.0021156	-3.06	0.003	-.0106822	-.0022775
gdpmf	.0549071	.2191937	0.25	0.803	-.3804942	.4903084
_cons	7.112693	.7267494	9.79	0.000	5.669095	8.556292

Model 2-10: Robust Check 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)

```
. regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi sanicom, r

Linear regression                                      Number of obs =     102
                                                       F(  8,    93) =   75.79
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8422
                                                       Root MSE      =  .31911
```

limrcom	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
lgdph	-.3847625	.0804299	-4.78	0.000	-.5444802	-.2250447
giniavni	.0076405	.0058598	1.30	0.195	-.0039959	.0192769
ethnannx	.2240378	.1409737	1.59	0.115	-.055908	.5039836
musl	.3239013	.1106455	2.93	0.004	.1041813	.5436213
fertwdi	.0807395	.0338925	2.38	0.019	.0134357	.1480432
lpopd	-.0677707	.0359203	-1.89	0.062	-.1391014	.00356
urbwdi	-.0027998	.0023442	-1.19	0.235	-.0074549	.0018553
sanicom	-.00653	.0018698	-3.49	0.001	-.0102431	-.0028169
_cons	6.719634	.7153742	9.39	0.000	5.299043	8.140226

Model 2-10: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

```
. regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi sanicom ethnannf, r

Linear regression                                      Number of obs =     102
                                                       F(  9,    92) =   65.93
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8427
                                                       Root MSE      =  .32034
```

limrcom	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
lgdph	-.3998635	.0903895	-4.42	0.000	-.5793848	-.2203422
giniavni	.0071697	.0059121	1.21	0.228	-.0045722	.0189116
ethnannx	.2154701	.1438504	1.50	0.138	-.0702291	.5011693
musl	.3264894	.1104149	2.96	0.004	.1071959	.5457828
fertwdi	.0782106	.0343458	2.28	0.025	.0099969	.1464243
lpopd	-.0684293	.0358479	-1.91	0.059	-.1396263	.0027678
urbwdi	-.0024457	.0024969	-0.98	0.330	-.0074048	.0025134
sanicom	-.0064621	.0018801	-3.44	0.001	-.0101961	-.0027281
ethnannf	-.0747285	.1807286	-0.41	0.680	-.433671	.284214

```
       _cons |   6.859991   .7961276     8.62   0.000     5.278813    8.441169
------------------------------------------------------------------------------
```

Table 2.3: Public Health Spending, Health Service Utilization, and Infant Mortality

Table 2.3: Summary of robustness checks for Models 3-1, 3-2, and 3-3

This table gives the t-score of the association between the share of GDP devoted to public health spending and the utilization of common maternal and infant health care services (trained attendance at birth in Model 3-1, child immunization in Models 3-2 and 3-3) in the context of 16 checks for robustness. The statistical output follows the table. In each check for robustness the 7 socioeconomic "baseline"variables (Model 2-3) are controlled for, just as in the models in Table 2.3.

	3-1 delivcom	3-2 dpt3con	3-3 mcvcon
Basic Model	**3.19	*2.25	**3.13
1.1. Specif: Excl fertility	***3.51	*2.37	**3.25
1.2. Specif: Incl fem sch	*2.74	*2.05	**3.04
1.3. Specif: Incl fem lit	*2.26	†1.89	**2.82
1.4. Specif: Incl geogr	**3.15	*2.25	**3.20
1.5. Specif: Incl reg dum	***3.90	**2.67	***3.74
2.1. Imput: msg data flags	**3.10	†1.89	**2.66
3.1. Outliers: rreg	**2.76	†1.68	*2.34
3.2. Outliers: qreg	***3.48	0.95	*2.61
3.3. Outliers: cooksd	***3.51	†1.90	**3.05
4.4. Endog: 2SLS	0.38	1.57	1.51
6.1. IV hlxpuwb	***3.35	**2.67	**2.86
6.2. IV lhlxpuwd	***3.56	***3.38	***4.39
7.1. IV lgdpmx	**3.07	*2.36	**3.17
7.2. IV lgdpmx, mdf	**3.12	*2.29	**3.13
7.3. IV ethnannx	**3.26	*2.14	**3.08
7.4. IV ethnannx, mdf	***3.44	*2.11	**3.00

Table 2.3, Model 3-1: Public Health Spending/GDP and Trained Attendance At Birth

Model 3-1: Bivariate correlations among independent variables

```
. correlate lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi hlxpuwdi delivcom
(obs=103)

             |    lgdph giniavni    ethnl     musl  fertwdi    lpopd   urbwdi hlxpuwdi hlxpuwdi
-------------+---------------------------------------------------------------------------
       lgdph |   1.0000
    giniavni |  -0.0087   1.0000
       ethnl |  -0.4740   0.2447   1.0000
        musl |   0.2922  -0.2972  -0.2867   1.0000
     fertwdi |  -0.6565   0.1217   0.4296   0.1280   1.0000
       lpopd |   0.1954  -0.2995  -0.1865  -0.1271  -0.4055   1.0000
      urbwdi |   0.8283   0.0029  -0.4392   0.2681  -0.5968   0.1051   1.0000
    hlxpuwdi |   0.2568   0.0840  -0.2272   0.0227  -0.2360  -0.1793   0.3429   1.0000
    delivcom |   0.7031  -0.0423  -0.3721   0.0313  -0.6992   0.1330   0.7087   0.4184
```

Model 3-1: Birth attendance predicted by 7 baseline variables only

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi

      Source |       SS       df       MS              Number of obs =     103
-------------+------------------------------           F(  7,    95) =   25.02
       Model |  51477.8811     7  7353.98302           Prob > F      =  0.0000
    Residual |  27921.3227    95   293.90866           R-squared     =  0.6483
-------------+------------------------------           Adj R-squared =  0.6224
       Total |  79399.2039   102  778.423567           Root MSE      =  17.144

------------------------------------------------------------------------------
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   7.711868   3.846366     2.00   0.048     .0758649    15.34787
    giniavni |   -.234277   .2269607    -1.03   0.305     -.684851    .2162971
       ethnl |   .9348624   6.572201     0.14   0.887    -12.11261    13.98233
        musl |  -8.358008   5.744649    -1.45   0.149    -19.76258    3.046562
     fertwdi |  -6.312923   1.733646    -3.64   0.000    -9.754646   -2.871199
       lpopd |  -2.495193   1.288191    -1.94   0.056    -5.052575    .0621895
      urbwdi |   .3812785   .1301847     2.93   0.004     .1228292    .6397277
       _cons |   35.74748   30.51346     1.17   0.244     -24.8294    96.32436
------------------------------------------------------------------------------
```

Model 3-1: Birth attendance predicted by 7 baseline variables and pub health sp/GDP

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi, r

Linear regression                                      Number of obs =     103
                                                       F(  8,    94) =   47.09
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6729
                                                       Root MSE      =  16.621

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   8.251252    4.54096     1.82   0.072    -.7649317    17.26744
    giniavni |  -.2488197    .188877    -1.32   0.191    -.6238395    .1262001
       ethnl |   3.315681   6.033629     0.55   0.584    -8.664231    15.29559
        musl |  -7.283396   4.993135    -1.46   0.148    -17.19738    2.630589
     fertwdi |  -5.858123   1.921699    -3.05   0.003    -9.673702   -2.042544
       lpopd |  -1.580643   1.119976    -1.41   0.161    -3.804381    .6430945
      urbwdi |   .3156719   .1256206     2.51   0.014     .0662492    .5650945
    hlxpuwdi |    3.81771   1.196239     3.19   0.002     1.442548    6.192871
       _cons |    20.7688   37.65842     0.55   0.583    -54.00288    95.54049
------------------------------------------------------------------------------
```

Model 3-1: Means and SDs of % GDP to public health spending and birth attendance

```
. summarize hlxpuwdi

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    hlxpuwdi |       105    2.001905    1.275206          0          7

. summarize delivcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    delivcom |       103    59.42718    27.90024          7        100
```

Model 3-1: How much would birth attendance rise if pub health spending/GDP rose 1 SD?

```
. estsimp regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi,
> r

Linear regression                                       Number of obs =     103
                                                        F(  8,    94) =   47.09
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.6729
                                                        Root MSE      =  16.621

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   8.251252    4.54096     1.82   0.072    -.7649317    17.26744
    giniavni |  -.2488197    .188877    -1.32   0.191    -.6238395    .1262001
       ethnl |   3.315681   6.033629     0.55   0.584    -8.664231    15.29559
        musl |  -7.283396   4.993135    -1.46   0.148    -17.19738    2.630589
     fertwdi |  -5.858123   1.921699    -3.05   0.003    -9.673702   -2.042544
       lpopd |  -1.580643   1.119976    -1.41   0.161    -3.804381    .6430945
      urbwdi |   .3156719   .1256206     2.51   0.014     .0662492    .5650945
    hlxpuwdi |    3.81771   1.196239     3.19   0.002     1.442548    6.192871
       _cons |    20.7688   37.65842     0.55   0.583    -54.00288    95.54049
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....

Note: Clarify is expanding your dataset from 105 observations to 1000
observations in order to accommodate the simulations.  This will append
missing values to the bottom of your original dataset.

% of simulations completed: 11% 22% 33% 44% 55% 66% 77% 88% 100%


Simulating sigma-squared.  Please wait


Number of simulations  : 1000
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9 b10

. setx mean



. simqi, fd(ev) changex(hlxpuwdi 2.001905 3.277111)

First Difference: hlxpuwdi 2.001905 3.277111

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+-----------------------------------------------
              dE(delivcom) |   4.894825     1.565343     1.718245    7.981657
```

Model 3-1: Robustness checks

Model 3-1: Robust Check 1.1: Change specification: Exclude fertility

```
. regress delivcom lgdph giniavni ethnl musl lpopd urbwdi hlxpuwdi, r

Linear regression                                       Number of obs =     103
                                                        F(  7,    95) =   40.06
```

```
                                                Prob > F      =  0.0000
                                                R-squared     =  0.6311
                                                Root MSE      =  17.559

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   13.48294   3.843582     3.51   0.001     5.852462    21.11341
    giniavni |  -.4119464   .1991054    -2.07   0.041    -.8072205   -.0166723
       ethnl |  -.8967402   6.414611    -0.14   0.889    -13.63135    11.83787
        musl |  -16.67263   4.098066    -4.07   0.000    -24.80832   -8.536945
       lpopd |  -.4390474   1.168026    -0.38   0.708    -2.757872    1.879777
      urbwdi |   .3925543   .1352529     2.90   0.005     .1240434    .6610652
    hlxpuwdi |   4.322037   1.231286     3.51   0.001     1.877625     6.76645
       _cons |  -44.88779   26.64933    -1.68   0.095     -97.7934    8.017806
------------------------------------------------------------------------------
```

Model 3-1: Robust Check 1.2: Change specification: Include mean years of female school

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi mysfx, r

Linear regression                               Number of obs =     103
                                                F(  9,    93) =   42.82
                                                Prob > F      =  0.0000
                                                R-squared     =  0.6965
                                                Root MSE      =  16.097

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   5.464301   4.570794     1.20   0.235    -3.61239    14.54099
    giniavni |   -.267919     .17819    -1.50   0.136    -.621769    .0859311
       ethnl |    6.35519   5.231114     1.21   0.227    -4.032766    16.74315
        musl |  -1.838512    4.96041    -0.37   0.712     -11.6889     8.01188
     fertwdi |  -3.303354   2.285219    -1.45   0.152    -7.841345    1.234638
       lpopd |  -1.112214    1.16463    -0.95   0.342    -3.424938    1.200509
      urbwdi |   .2834029   .1157814     2.45   0.016      .053484    .5133219
    hlxpuwdi |   3.195544   1.164274     2.74   0.007     .8835269    5.507561
       mysfx |   3.911953   1.542101     2.54   0.013     .8496452    6.974261
       _cons |   15.00368   38.13979     0.39   0.695    -60.73439    90.74174
------------------------------------------------------------------------------
```

Model 3-1: Robust Check 1.3: Change specification: Include female literacy

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi litfewdi, r

Linear regression                               Number of obs =     103
                                                F(  9,    93) =   48.74
                                                Prob > F      =  0.0000
                                                R-squared     =  0.7134
                                                Root MSE      =  15.643

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   5.767517   4.252885     1.36   0.178    -2.67787     14.2129
    giniavni |  -.3100409   .1823468    -1.70   0.092    -.6721455    .0520636
       ethnl |   9.312088    5.47255     1.70   0.092    -1.555313    20.17949
        musl |   .7913792   5.048419     0.16   0.876    -9.233781    10.81654
```

```
     fertwdi |  -1.972895   1.937355    -1.02   0.311    -5.820098    1.874308
       lpopd |  -.7218345   1.111479    -0.65   0.518    -2.929011    1.485342
      urbwdi |   .2984626   .1143985     2.61   0.011     .0712898    .5256353
    hlxpuwdi |    2.72965   1.209294     2.26   0.026     .3282326    5.131068
    litfewdi |   .4057638   .1243637     3.26   0.002     .1588021    .6527256
       _cons |  -3.201772   33.47274    -0.10   0.924    -69.67199    63.26845
------------------------------------------------------------------------------
```

Model 3-1: Robust Check 1.4: Change specification: Include geographical variables

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi airdist popcrgs latcapab,
r

Linear regression                                      Number of obs =     103
                                                       F( 11,    91) =   36.11
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6807
                                                       Root MSE      =  16.692

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   6.812281   4.740289     1.44   0.154     -2.60372    16.22828
    giniavni |  -.3002747   .2003229    -1.50   0.137    -.6981916    .0976422
       ethnl |   2.569855   5.824115     0.44   0.660    -8.999034    14.13874
        musl |  -7.137599   5.847078    -1.22   0.225     -18.7521    4.476904
     fertwdi |  -5.707643   2.258926    -2.53   0.013    -10.19472   -1.220565
       lpopd |  -1.535141   1.260377    -1.22   0.226    -4.038724    .9684423
      urbwdi |   .3557863   .1283773     2.77   0.007     .1007806    .6107921
    hlxpuwdi |   3.743959   1.189776     3.15   0.002     1.380615    6.107304
     airdist |   .0013916   .0009342     1.49   0.140    -.0004641    .0032473
     popcrgs |   .0332882   .0653132     0.51   0.612    -.0964484    .1630247
    latcapab |   .0980711    .182555     0.54   0.592     -.264552    .4606942
       _cons |     21.231    41.0566     0.52   0.606    -60.32289    102.7849
------------------------------------------------------------------------------
```

Model 3-1: Robust Check 1.5: Change specification: Include regional dummies

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi afri lati east sout, r

Linear regression                                      Number of obs =     103
                                                       F( 12,    90) =   42.50
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7347
                                                       Root MSE      =  15.299

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   5.989398   4.699993     1.27   0.206    -3.347959    15.32675
    giniavni |  -.1286967    .202916    -0.63   0.528    -.5318247    .2744313
       ethnl |  -8.515075   7.004067    -1.22   0.227    -22.42988    5.399726
        musl |  -13.54531   6.797569    -1.99   0.049    -27.04987   -.0407533
     fertwdi |  -8.399198    2.16415    -3.88   0.000    -12.69866   -4.099737
       lpopd |  -2.104945   1.031978    -2.04   0.044    -4.155149   -.0547419
      urbwdi |   .3822632   .1208103     3.16   0.002     .1422524     .622274
    hlxpuwdi |   3.973419   1.019452     3.90   0.000       1.9481    5.998738
        afri |   3.117046   7.363126     0.42   0.673    -11.51109    17.74518
        lati |  -20.89182   7.609313    -2.75   0.007    -36.00905   -5.774595
        east |  -4.600719   8.504167    -0.54   0.590    -21.49573    12.29429
```

```
        sout |  -13.26798     12.617    -1.05   0.296    -38.33385    11.79789
       _cons |   54.33424   40.81654     1.33   0.186    -26.75493    135.4234
------------------------------------------------------------------------------
```

Model 3-1: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi gdphf giniavnf ethnlf, r

Linear regression                                      Number of obs =     103
                                                       F( 10,    92) =   38.44
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6940
                                                       Root MSE      =  16.251

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   7.943312   3.988723     1.99   0.049     .0213628    15.86526
    giniavni |  -.1268646   .1938498    -0.65   0.514    -.5118671    .2581379
       ethnl |   4.127212   5.935897     0.70   0.489    -7.661992    15.91642
        musl |  -7.233594   5.068725    -1.43   0.157    -17.30052    2.833331
     fertwdi |   -7.11001   1.807048    -3.93   0.000    -10.69896   -3.521058
       lpopd |  -1.497105   1.110983    -1.35   0.181    -3.703613    .7094036
      urbwdi |   .2415236     .12904     1.87   0.064     -.014761    .4978083
    hlxpuwdi |   3.694542   1.192889     3.10   0.003     1.325361    6.063723
       gdphf |  (dropped)
    giniavnf |   9.615227   4.835653     1.99   0.050     .0112018    19.21925
      ethnlf |   4.235596   6.012378     0.70   0.483    -7.705504     16.1767
       _cons |   24.05042   33.41789     0.72   0.474    -42.32038    90.42123
------------------------------------------------------------------------------
```

Model 3-1: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi

   Huber iteration 1:  maximum difference in weights = .54379223
   Huber iteration 2:  maximum difference in weights = .07742036
   Huber iteration 3:  maximum difference in weights = .02844888
Biweight iteration 4:  maximum difference in weights = .15594065
Biweight iteration 5:  maximum difference in weights = .03836834
Biweight iteration 6:  maximum difference in weights = .0085122

Robust regression                                      Number of obs =     103
                                                       F(  8,    94) =   23.52
                                                       Prob > F      =  0.0000

------------------------------------------------------------------------------
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    10.3366   3.845709     2.69   0.009     2.700856    17.97235
    giniavni |  -.2764323   .2266567    -1.22   0.226    -.7264646       .1736
       ethnl |   5.439524   6.625876     0.82   0.414    -7.716308    18.59536
        musl |  -8.125293   5.750271    -1.41   0.161    -19.54259    3.292006
     fertwdi |  -5.360818   1.739734    -3.08   0.003      -8.8151   -1.906536
       lpopd |  -1.627487   1.333976    -1.22   0.226    -4.276127    1.021153
      urbwdi |    .293884   .1324318     2.22   0.029     .0309376    .5568304
    hlxpuwdi |   4.085955   1.478943     2.76   0.007     1.149479    7.022431
       _cons |   3.668407   31.01089     0.12   0.906    -57.90444    65.24126
------------------------------------------------------------------------------
```

Model 3-1: Robust Check 3.2: Outlier checks: Median regression

```
. qreg delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi
Iteration  1:  WLS sum of weighted deviations =  1269.6316

Iteration  1: sum of abs. weighted deviations =  9625.4237
Iteration  2: sum of abs. weighted deviations =  1262.7028
Iteration  3: sum of abs. weighted deviations =  1260.8199
Iteration  4: sum of abs. weighted deviations =  1255.1114
Iteration  5: sum of abs. weighted deviations =   1252.779
Iteration  6: sum of abs. weighted deviations =  1251.5892
Iteration  7: sum of abs. weighted deviations =  1250.6907
Iteration  8: sum of abs. weighted deviations =   1250.394
Iteration  9: sum of abs. weighted deviations =  1250.3871

Median regression                                   Number of obs =       103
  Raw sum of deviations     2456 (about 61)
  Min sum of deviations 1250.387                    Pseudo R2     =    0.4909

------------------------------------------------------------------------------
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   10.03835   3.127914     3.21   0.002     3.827803     16.2489
    giniavni |  -.4550941   .1845519    -2.47   0.015    -.8215262    -.088662
       ethnl |   7.088273   5.492712     1.29   0.200    -3.817636    17.99418
        musl |  -8.409115   4.814023    -1.75   0.084    -17.96747    1.149241
     fertwdi |  -5.913531   1.399697    -4.22   0.000    -8.692661     -3.1344
       lpopd |  -2.338902   1.105715    -2.12   0.037    -4.534326   -.1434783
      urbwdi |   .2796092   .1062478     2.63   0.010     .0686517    .4905667
    hlxpuwdi |   3.824518   1.099556     3.48   0.001     1.641324    6.007712
       _cons |   19.99704   25.36376     0.79   0.432    -30.3633    70.35738
-------------------------------------------------------------------------------
```

Model 3-1: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi if ctry ~= "Oman" & ctry
~= "Myanmar", r

Linear regression                                   Number of obs =     101
                                                    F(  8,    92) =   50.25
                                                    Prob > F      =  0.0000
                                                    R-squared     =  0.7037
                                                    Root MSE      =  15.771

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   7.972333   4.042637     1.97   0.052    -.0566937    16.00136
    giniavni |  -.2352453   .1768181    -1.33   0.187    -.5864213    .1159307
       ethnl |   5.229479   5.961565     0.88   0.383    -6.610703    17.06966
        musl |  -7.658435   4.704208    -1.63   0.107     -17.0014    1.684529
     fertwdi |   -5.92826   1.617772    -3.66   0.000    -9.141296   -2.715225
       lpopd |  -1.274668   1.135206    -1.12   0.264    -3.529285    .9799497
      urbwdi |   .3304144   .1254109     2.63   0.010     .0813375    .5794913
    hlxpuwdi |   4.173773   1.188164     3.51   0.001     1.813977    6.533569
       _cons |   18.69378   33.38096     0.56   0.577    -47.60369    84.99125
------------------------------------------------------------------------------
```

Model 3-1: Robust Ck 4.1: Endog ck: Corr cand. inst (hlxwdns) & hyp endg reg (hlxpuwdi)

```
. correlate hlxpuwdi hlxwdns
```

```
(obs=104)

             | hlxpuwdi  hlxwdns
-------------+------------------
    hlxpuwdi |   1.0000
     hlxwdns |   0.4546   1.0000
```

Model 3-1: Robust Ck 4.2: Endog ck: Does CI predict HER in presence of exog regressors?

```
. ivreg delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi (hlxpuwdi = hlxwdns), first

First-stage regressions
-----------------------

      Source |       SS       df       MS              Number of obs =     103
-------------+------------------------------           F(  8,    94) =    5.63
       Model |   54.698789     8  6.83734862           Prob > F      =  0.0000
    Residual |  114.157711    94  1.21444374           R-squared     =  0.3239
-------------+------------------------------           Adj R-squared =  0.2664
       Total |    168.8565   102  1.65545589           Root MSE      =   1.102

------------------------------------------------------------------------------
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.0757748   .2477807    -0.31   0.760    -.5677492    .4161996
    giniavni |  -.0074927   .0148557    -0.50   0.615     -.036989    .0220037
       ethnl |  -.1139319   .4409485    -0.26   0.797    -.9894454    .7615816
        musl |  -.4437587   .3714554    -1.19   0.235    -1.181292    .2937746
     fertwdi |  -.0993302   .1115485    -0.89   0.375    -.3208123    .1221519
       lpopd |  -.2140229   .0830476    -2.58   0.012    -.3789158   -.0491299
      urbwdi |   .0142688   .0083995     1.70   0.093    -.0024087    .0309463
     hlxwdns |   .3855961   .0955644     4.03   0.000     .1958507    .5753414
       _cons |   2.841817    1.97967     1.44   0.154    -1.088863    6.772497
------------------------------------------------------------------------------
```

Model 3-1: Robust Check 4.3: Endog ck: 2SLS using hlxwdns as instrument for hlxpuwdi

```
Instrumental variables (2SLS) regression

      Source |       SS       df       MS              Number of obs =     103
-------------+------------------------------           F(  8,    94) =   22.64
       Model |  52661.7135     8  6582.71418           Prob > F      =  0.0000
    Residual |  26737.4904    94  284.441387           R-squared     =  0.6633
-------------+------------------------------           Adj R-squared =  0.6346
       Total |  79399.2039   102  778.423567           Root MSE      =  16.865

------------------------------------------------------------------------------
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
    hlxpuwdi |   1.422777   3.792898     0.38   0.708    -6.108111    8.953666
       lgdph |   7.912884   3.821668     2.07   0.041     .3248734     15.5009
    giniavni |  -.2396967   .2237424    -1.07   0.287    -.6839425    .2045491
       ethnl |   1.822142   6.884572     0.26   0.792    -11.84734    15.49162
        musl |  -7.957524   5.751331    -1.38   0.170    -19.37693    3.461879
     fertwdi |  -6.143429   1.764335    -3.48   0.001    -9.646558   -2.640299
       lpopd |   -2.15436   1.559342    -1.38   0.170     -5.25047      .94175
      urbwdi |   .3568283   .1437031     2.48   0.015     .0715024    .6421542
       _cons |   30.16525   33.50424     0.90   0.370     -36.3582    96.68871
------------------------------------------------------------------------------
Instrumented:  hlxpuwdi
Instruments:   lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxwdns
```

```
------------------------------------------------------------------------------
```

Model 3-1: Robust Check 4.4: Endog ck: Hausman test for diff btw coeff of OLS & of 2SLS

```
. estimates store ivwdns

. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi

      Source |       SS       df       MS              Number of obs =     103
-------------+------------------------------           F(  8,    94) =   24.17
       Model |  53429.8941     8  6678.73676           Prob > F      =  0.0000
    Residual |  25969.3098    94  276.269253           R-squared     =  0.6729
-------------+------------------------------           Adj R-squared =  0.6451
       Total |  79399.2039   102  778.423567           Root MSE      =  16.621

------------------------------------------------------------------------------
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   8.251252   3.734674     2.21   0.030     .8359684    15.66654
    giniavni |  -.2488197   .2201126    -1.13   0.261    -.6858585    .1882191
       ethnl |   3.315681   6.434571     0.52   0.608    -9.460311    16.09167
        musl |  -7.283396   5.584248    -1.30   0.195    -18.37105    3.804258
     fertwdi |  -5.858123   1.689504    -3.47   0.001    -9.212672   -2.503574
       lpopd |  -1.580643   1.295461    -1.22   0.225    -4.152811    .9915243
      urbwdi |   .3156719   .1286082     2.45   0.016     .0603173    .5710264
    hlxpuwdi |    3.81771   1.436243     2.66   0.009     .9660161    6.669403
       _cons |    20.7688   30.11554     0.69   0.492     -39.0263     80.5639
------------------------------------------------------------------------------

. hausman ivwdns

                ---- Coefficients ----
             |      (b)          (B)            (b-B)     sqrt(diag(V_b-V_B))
             |     ivwdns          .          Difference          S.E.
-------------+----------------------------------------------------------------
    hlxpuwdi |    1.422777      3.81771       -2.394932        3.510453
       lgdph |    7.912884     8.251252       -.3383675        .8107725
    giniavni |   -.2396967    -.2488197         .009123        .0401384
       ethnl |    1.822142     3.315681       -1.493539        2.448189
        musl |   -7.957524    -7.283396       -.6741273        1.376221
     fertwdi |   -6.143429    -5.858123       -.2853055        .5083866
       lpopd |    -2.15436    -1.580643       -.5737168        .8679454
      urbwdi |    .3568283     .3156719        .0411564        .0641134
------------------------------------------------------------------------------
                           b = consistent under Ho and Ha; obtained from ivreg
         B = inconsistent under Ha, efficient under Ho; obtained from regress

    Test:  Ho:  difference in coefficients not systematic

                  chi2(8) = (b-B)'[(V_b-V_B)^(-1)](b-B)
                          =        0.47
                Prob>chi2 =      0.9999
```

Model 3-1: Robust Ck 6.1: IndV: Vary source: WDI to HNP pub sp (hlxpuwdi to hlxpuwb)

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb, r

Linear regression                                      Number of obs =     103
                                                       F(  8,    94) =   46.65
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6763
                                                       Root MSE      =  16.536
```

delivcom	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
lgdph	7.513136	4.40876	1.70	0.092	-1.24056	16.26683
giniavni	-.2322485	.1846387	-1.26	0.212	-.5988529	.134356
ethnl	4.181078	5.968821	0.70	0.485	-7.670155	16.03231
musl	-6.78713	5.104074	-1.33	0.187	-16.92139	3.347128
fertwdi	-6.563385	1.932632	-3.40	0.001	-10.40067	-2.726099
lpopd	-1.869744	1.088785	-1.72	0.089	-4.031552	.2920642
urbwdi	.3351347	.1192435	2.81	0.006	.098374	.5718954
hlxpuwb	3.311527	.9895807	3.35	0.001	1.346691	5.276362
_cons	29.01001	35.75184	0.81	0.419	-41.9761	99.99613

Model 3-1: Robust Ck 6.2: IndV: Transform: WDI to ln WDI pub sp (hlxpuwdi to lhlxpuwd)

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi lhlxpuwd, r

Linear regression                               Number of obs =     103
                                                F(  8,    94) =   49.01
                                                Prob > F      =  0.0000
                                                R-squared     =  0.6784
                                                Root MSE      =   16.48
```

delivcom	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
lgdph	8.751886	4.48288	1.95	0.054	-.1489764	17.65275
giniavni	-.3117208	.1851524	-1.68	0.096	-.6793453	.0559036
ethnl	1.058245	5.592337	0.19	0.850	-10.04547	12.16196
musl	-8.547277	5.019832	-1.70	0.092	-18.51427	1.419717
fertwdi	-5.670542	1.873706	-3.03	0.003	-9.390829	-1.950256
lpopd	-1.852032	1.038925	-1.78	0.078	-3.914843	.2107787
urbwdi	.2899388	.1270653	2.28	0.025	.0376477	.5422298
lhlxpuwd	8.198906	2.302741	3.56	0.001	3.626761	12.77105
_cons	25.61421	36.30773	0.71	0.482	-46.47563	97.70406

Model 3-1: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)

```
. regress delivcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi, r

Linear regression                               Number of obs =     102
                                                F(  8,    93) =   43.11
                                                Prob > F      =  0.0000
                                                R-squared     =  0.6616
                                                Root MSE      =  16.762
```

delivcom	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
lgdpmx	5.830689	4.511807	1.29	0.199	-3.128865	14.79024
giniavni	-.261006	.1914881	-1.36	0.176	-.6412635	.1192515
ethnl	2.63069	6.210203	0.42	0.673	-9.701541	14.96292
musl	-5.579204	4.863469	-1.15	0.254	-15.23709	4.078681
fertwdi	-6.204189	2.03317	-3.05	0.003	-10.24166	-2.166716
lpopd	-1.63059	1.170379	-1.39	0.167	-3.95473	.6935503
urbwdi	.3606391	.1164574	3.10	0.003	.1293778	.5919005

```
    hlxpuwdi |   3.796459   1.238606     3.07   0.003     1.336833    6.256085
       _cons |   39.60169    38.6098     1.03   0.308    -37.06973    116.2731
------------------------------------------------------------------------------
```

Model 3-1: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

```
. regress delivcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi gdpmf, r

Linear regression                                      Number of obs =     102
                                                       F(  9,    92) =   38.23
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6618
                                                       Root MSE      =  16.847

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |    5.67824   4.391028     1.29   0.199    -3.042721     14.3992
    giniavni |  -.2574052   .1936109    -1.33   0.187    -.6419331    .1271227
       ethnl |    2.36224   6.077415     0.39   0.698    -9.708031    14.43251
        musl |   -5.59905   4.879069    -1.15   0.254     -15.2893    4.091201
     fertwdi |  -6.116353   2.108555    -2.90   0.005    -10.30413    -1.92858
       lpopd |  -1.557237   1.201215    -1.30   0.198    -3.942953    .8284793
      urbwdi |   .3693133   .1081992     3.41   0.001     .1544203    .5842063
    hlxpuwdi |   3.764232   1.206322     3.12   0.002     1.368373    6.160091
       gdpmf |   2.528136   15.50625     0.16   0.871    -28.26861    33.32489
       _cons |   39.62965   38.90775     1.02   0.311    -37.64451    116.9038
------------------------------------------------------------------------------
```

Model 3-1: Robust Check 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)

```
. regress delivcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi hlxpuwdi, r

Linear regression                                      Number of obs =     103
                                                       F(  8,    94) =   47.24
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6737
                                                       Root MSE      =  16.601

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   8.681722   4.640187     1.87   0.064    -.5314769    17.89492
    giniavni |  -.2411337   .1892287    -1.27   0.206    -.6168517    .1345843
    ethnannx |   5.433245   6.689248     0.81   0.419    -7.848413     18.7149
        musl |  -7.121736   4.878412    -1.46   0.148    -16.80794    2.564465
     fertwdi |  -5.765486    1.89937    -3.04   0.003    -9.536729   -1.994242
       lpopd |  -1.453057   1.113376    -1.31   0.195    -3.663691    .7575758
      urbwdi |   .3022776   .1234077     2.45   0.016     .0572488    .5473064
    hlxpuwdi |   3.880018   1.191447     3.26   0.002     1.514372    6.245664
       _cons |   14.90385   39.72571     0.38   0.708    -63.97248    93.78018
------------------------------------------------------------------------------
```

Model 3-1: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

```
. regress delivcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi hlxpuwdi ethnannf, r

Linear regression                                      Number of obs =     103
```

```
                                                F(  9,    93) =   40.07
                                                Prob > F      =  0.0000
                                                R-squared     =  0.6946
                                                Root MSE      =  16.149

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   12.10292   5.005157     2.42   0.018     2.163672    22.04217
    giniavni |  -.1219882    .204624    -0.60   0.553     -.528331    .2843546
    ethnannx |    7.86267   6.537898     1.20   0.232      -5.1203    20.84564
        musl |  -7.650245   5.212564    -1.47   0.146    -18.00136    2.700875
     fertwdi |  -5.060965   1.953984    -2.59   0.011     -8.94119    -1.18074
       lpopd |  -1.183101   1.117294    -1.06   0.292    -3.401825    1.035623
      urbwdi |   .2078497   .1315275     1.58   0.117    -.0533377    .4690372
    hlxpuwdi |   4.178333   1.215245     3.44   0.001     1.765098    6.591568
    ethnannf |   17.86057   8.431802     2.12   0.037     1.116682    34.60446
       _cons |  -19.66454   44.55622    -0.44   0.660    -108.1444    68.81529
------------------------------------------------------------------------------
```

Table 2.3, Model 3-2: Public health spending/GDP and DTP3 Immunization

Model 3-2: Bivariate correlations among independent variables

```
. correlate lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi hlxpuwdi dtp3con
(obs=98)

             |    lgdph giniavni    ethnl     musl  fertwdi    lpopd   urbwdi hlxpuwdi hlxpuwdi
-------------+---------------------------------------------------------------------------------
       lgdph |   1.0000
    giniavni |   0.0553   1.0000
       ethnl |  -0.4639   0.1837   1.0000
        musl |   0.3037  -0.2999  -0.2504   1.0000
     fertwdi |  -0.6226   0.0745   0.4365   0.1169   1.0000
       lpopd |   0.0816  -0.2807  -0.1644  -0.1579  -0.3660   1.0000
      urbwdi |   0.8128   0.0595  -0.4289   0.2752  -0.5620  -0.0329   1.0000
    hlxpuwdi |   0.2598   0.0658  -0.2482   0.0241  -0.2458  -0.1809   0.3561   1.0000
    hlxpuwdi |   0.2598   0.0658  -0.2482   0.0241  -0.2458  -0.1809   0.3561   1.0000   1.0000
     dtp3con |   0.5026  -0.0153  -0.3702   0.1021  -0.4714   0.1826   0.3716   0.2934   0.2934

             |  dtp3con
-------------+---------
     dtp3con |   1.0000
```

Model 3-2: DTP3 immuniz predicted by 7 baseline variables only

```
. regress dtp3con lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r

Linear regression                               Number of obs =      98
                                                F(  7,    90) =    5.68
                                                Prob > F      =  0.0000
                                                R-squared     =  0.3191
                                                Root MSE      =  18.249

------------------------------------------------------------------------------
             |               Robust
     dtp3con |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   9.669254   3.932528     2.46   0.016       1.8566    17.48191
```

```
    giniavni |   .1054687   .2497112     0.42   0.674    -.3906262    .6015636
       ethnl |  -9.336667   6.801629    -1.37   0.173    -22.84929    4.175957
        musl |   2.107929   6.430967     0.33   0.744    -10.66831    14.88417
     fertwdi |  -3.151612   1.609842    -1.96   0.053    -6.349845    .0466205
       lpopd |   .7661703   1.420784     0.54   0.591    -2.056466    3.588807
      urbwdi |  -.1454248   .1249389    -1.16   0.248    -.3936376    .1027881
       _cons |   16.01652   29.31241     0.55   0.586     -42.2177    74.25074
------------------------------------------------------------------------------
```

Model 3-2: DTP3 immuniz predicted by 7 baseline variables and pub health sp/GDP

```
. regress dtp3con lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi, r

Linear regression                                      Number of obs =      98
                                                       F(  8,    89) =    6.14
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.3507
                                                       Root MSE      =   17.92

------------------------------------------------------------------------------
             |               Robust
     dtp3con |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   10.22498   3.933963     2.60   0.011     2.408276    18.04168
    giniavni |   .1078792    .239947     0.45   0.654    -.3688904    .5846488
       ethnl |  -7.076158   6.939308    -1.02   0.311    -20.86442      6.7121
        musl |   3.104501   6.185836     0.50   0.617    -9.186623    15.39563
     fertwdi |  -2.739265   1.621979    -1.69   0.095    -5.962103    .4835728
       lpopd |    1.53907   1.473171     1.04   0.299    -1.388089    4.466229
      urbwdi |  -.2012167   .1174769    -1.71   0.090    -.4346408    .0322075
    hlxpuwdi |   3.272068   1.453312     2.25   0.027     .3843691    6.159768
       _cons |   1.716385    29.9947     0.06   0.954    -57.88244    61.31521
------------------------------------------------------------------------------
```

Model 3-2: Means and SDs of % GDP to public health spending and DTP3 immz

```
. summarize hlxpuwdi

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    hlxpuwdi |       105    2.001905    1.275206          0          7


. summarize dtp3con

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     dtp3con |        98    71.93878    21.30186         17         99
```

Model 3-2: How much would DTP3 immz rise if pub health spending/GDP rose 1 SD?

```
. estsimp regress dtp3con lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi, r

Linear regression                                      Number of obs =      98
                                                       F(  8,    89) =    6.14
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.3507
                                                       Root MSE      =   17.92

------------------------------------------------------------------------------
```

```
             |               Robust
    dtp3con  |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   10.22498   3.933963     2.60   0.011     2.408276    18.04168
    giniavni |   .1078792    .239947     0.45   0.654    -.3688904    .5846488
       ethnl |  -7.076158   6.939308    -1.02   0.311    -20.86442      6.7121
        musl |   3.104501   6.185836     0.50   0.617    -9.186623    15.39563
     fertwdi |  -2.739265   1.621979    -1.69   0.095    -5.962103    .4835728
       lpopd |    1.53907   1.473171     1.04   0.299    -1.388089    4.466229
      urbwdi |  -.2012167   .1174769    -1.71   0.090    -.4346408    .0322075
    hlxpuwdi |   3.272068   1.453312     2.25   0.027     .3843691    6.159768
       _cons |   1.716385    29.9947     0.06   0.954    -57.88244    61.31521
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....
% of simulations completed: 11% 22% 33% 44% 55% 66% 77% 88% 100%


Simulating sigma-squared.  Please wait


Number of simulations  : 1000
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9 b10


. setx mean

. simqi, fd(ev) changex(hlxpuwdi 2.001905 3.277111)

First Difference: hlxpuwdi 2.001905 3.277111

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+-----------------------------------------------
               dE(dtp3con) |   4.172606     1.889536     .3083191    8.018772
```

Model 3-2: Robustness checks

Model 3-2: Robust Check 1.1: Change specification: Exclude fertility

```
. regress dtp3con lgdph giniavni ethnl musl lpopd urbwdi hlxpuwdi, r

Linear regression                               Number of obs =      98
                                                F(  7,    90) =    5.91
                                                Prob > F      =  0.0000
                                                R-squared     =  0.3343
                                                Root MSE      =  18.044

------------------------------------------------------------------------------
             |               Robust
    dtp3con  |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   12.54378   3.391595     3.70   0.000     5.805789    19.28178
    giniavni |   .0364746   .2312577     0.16   0.875    -.4229592    .4959084
       ethnl |  -9.040406   6.618273    -1.37   0.175    -22.18876    4.107948
        musl |  -.9605022   5.419817    -0.18   0.860    -11.72792    9.806911
       lpopd |   2.256815   1.446334     1.56   0.122    -.6165796    5.130209
      urbwdi |  -.1602129   .1226581    -1.31   0.195    -.4038947    .0834688
    hlxpuwdi |   3.527754   1.487324     2.37   0.020     .5729258    6.482582
       _cons |  -29.22985   22.94114    -1.27   0.206    -74.80642    16.34673
------------------------------------------------------------------------------
```

Model 3-2: Robust Check 1.2: Change specification: Include mean years of female school

```
. regress dtp3con lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi mysfx, r

Linear regression                                       Number of obs =      98
                                                        F(  9,    88) =    5.86
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.3620
                                                        Root MSE      =  17.864

------------------------------------------------------------------------------
             |               Robust
     dtp3con |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   8.770613   3.981244     2.20   0.030     .8587258     16.6825
    giniavni |   .1070342    .238623     0.45   0.655    -.3671788    .5812473
       ethnl |  -5.525553   6.950977    -0.79   0.429    -19.33916    8.288052
        musl |   6.137638   6.822117     0.90   0.371    -7.419886    19.69516
     fertwdi |  -1.513126   1.949607    -0.78   0.440     -5.38756    2.361309
       lpopd |      1.807   1.501709     1.20   0.232    -1.177331    4.791331
      urbwdi |  -.2223119    .114557    -1.94   0.056    -.4499699    .0053461
    hlxpuwdi |   2.985784   1.458047     2.05   0.044     .0882224    5.883347
       mysfx |   2.015117   1.433104     1.41   0.163    -.8328766     4.86311
       _cons |  -1.089218   30.62197    -0.04   0.972    -61.94394     59.7655
------------------------------------------------------------------------------
```

Model 3-2: Robust Check 1.3: Change specification: Include female literacy

```
. regress dtp3con lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi litfewdi, r

Linear regression                                       Number of obs =      98
                                                        F(  9,    88) =    5.70
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.3713
                                                        Root MSE      =  17.733

------------------------------------------------------------------------------
             |               Robust
     dtp3con |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   8.912893   3.963266     2.25   0.027     1.036735    16.78905
    giniavni |   .0636068   .2433292     0.26   0.794    -.4199588    .5471725
       ethnl |  -4.079433   7.051889    -0.58   0.564    -18.09358    9.934714
        musl |   7.777734   6.970853     1.12   0.268    -6.075371    21.63084
     fertwdi |  -.7539404   2.083842    -0.36   0.718    -4.895138    3.387257
       lpopd |   1.907866   1.506645     1.27   0.209    -1.086274    4.902007
      urbwdi |  -.2216296   .1178546    -1.88   0.063     -.455841    .0125817
    hlxpuwdi |    2.74894   1.453978     1.89   0.062    -.1405362    5.638417
    litfewdi |   .2205985   .1374374     1.61   0.112    -.0525294    .4937264
       _cons |  -9.855842   31.04331    -0.32   0.752    -71.54791    51.83622
------------------------------------------------------------------------------
```

Model 3-2: Robust Check 1.4: Change specification: Include geographical variables

```
. regress dtp3con lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi airdist popcrgs latcapab,
r

Linear regression                                       Number of obs =      98
                                                        F( 11,    86) =    4.44
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.3584
                                                        Root MSE      =  18.122

------------------------------------------------------------------------------
```

```
             |               Robust
    dtp3con  |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   9.364327   4.276179     2.19   0.031     .8635656    17.86509
    giniavni |    .078828   .2428521     0.32   0.746     -.403946     .561602
       ethnl |  -7.495519   7.456914    -1.01   0.318    -22.31937    7.328336
        musl |   3.069523   7.473515     0.41   0.682    -11.78733    17.92638
     fertwdi |  -2.662745   1.896271    -1.40   0.164    -6.432407    1.106918
       lpopd |   1.720691   1.574292     1.09   0.277    -1.408897    4.850279
      urbwdi |  -.1734973   .1184578    -1.46   0.147    -.4089837    .0619891
    hlxpuwdi |   3.244504   1.443655     2.25   0.027     .3746119    6.114395
     airdist |   .0009578   .0010436     0.92   0.361    -.0011168    .0030323
     popcrgs |   .0079148   .0705833     0.11   0.911    -.1324001    .1482298
    latcapab |   .0960277   .1901216     0.51   0.615    -.2819215     .473977
       _cons |   .5272046   33.37339     0.02   0.987    -65.81689     66.8713
------------------------------------------------------------------------------
```

Model 3-2: Robust Check 1.5: Change specification: Include regional dummy variables

```
. regress dtp3con lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi afri lati east sout, r

Linear regression                               Number of obs =      98
                                                F( 12,    85) =    7.32
                                                Prob > F      =  0.0000
                                                R-squared     =  0.4096
                                                Root MSE      =  17.484

------------------------------------------------------------------------------
             |               Robust
    dtp3con  |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   7.965431   4.127368     1.93   0.057    -.2408813    16.17174
    giniavni |   .3066385   .2630058     1.17   0.247    -.2162876    .8295646
       ethnl |  -11.77917   7.394482    -1.59   0.115    -26.48138    2.923044
        musl |  -10.24286   5.933269    -1.73   0.088    -22.03979    1.554066
     fertwdi |  -4.697609   1.810811    -2.59   0.011    -8.297986   -1.097232
       lpopd |   1.074198   1.385499     0.78   0.440    -1.680546    3.828942
      urbwdi |  -.1518633   .1319305    -1.15   0.253    -.4141763    .1104498
    hlxpuwdi |   3.523146   1.318976     2.67   0.009     .9006677    6.145625
        afri |  -12.21667   8.079631    -1.51   0.134    -28.28114    3.847798
        lati |   -26.4607   7.077461    -3.74   0.000    -40.53259   -12.38881
        east |  -18.11021   7.939418    -2.28   0.025     -33.8959   -2.324524
        sout |  -12.83508   9.336676    -1.37   0.173    -31.39889    5.728733
       _cons |   37.28189   31.90861     1.17   0.246    -26.16098    100.7248
------------------------------------------------------------------------------
```

Model 3-2: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress dtp3con lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi gdphf giniavnf ethnlf, r

Linear regression                               Number of obs =      98
                                                F( 10,    87) =    6.81
                                                Prob > F      =  0.0000
                                                R-squared     =  0.3668
                                                Root MSE      =  17.899

------------------------------------------------------------------------------
             |               Robust
    dtp3con  |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   9.469955   3.792645     2.50   0.014     1.931663    17.00825
    giniavni |   .2426082    .269642     0.90   0.371    -.2933345    .7785509
```

```
       ethnl |  -6.043277   7.183207    -0.84   0.402    -20.32068    8.234126
        musl |   3.796161   6.498859     0.58   0.561    -9.121024    16.71335
     fertwdi |  -3.532644   1.731829    -2.04   0.044    -6.974841   -.0904463
       lpopd |   1.499939   1.498109     1.00   0.319    -1.477716    4.477593
      urbwdi |  -.2359592   .1256471    -1.88   0.064    -.4856964     .013778
    hlxpuwdi |   2.812711   1.489252     1.89   0.062    -.1473394    5.772761
       gdphf |  (dropped)
    giniavnf |   2.100762   6.319495     0.33   0.740    -10.45992    14.66144
      ethnlf |    11.2455   6.350678     1.77   0.080    -1.377159    23.86816
       _cons |    6.20514   28.11703     0.22   0.826    -49.68051    62.09079
------------------------------------------------------------------------------
```

Model 3-2: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg dtp3con lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi

   Huber iteration 1:  maximum difference in weights = .42743451
   Huber iteration 2:  maximum difference in weights = .07364948
   Huber iteration 3:  maximum difference in weights = .02277256
Biweight iteration 4:  maximum difference in weights = .15374502
Biweight iteration 5:  maximum difference in weights = .00698476

Robust regression                                     Number of obs =      98
                                                      F(  8,    89) =    4.93
                                                      Prob > F      =  0.0000

------------------------------------------------------------------------------
     dtp3con |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    10.2875    4.37544     2.35   0.021     1.593597    18.98141
    giniavni |   .0583034   .2777248     0.21   0.834      -.49353    .6101368
       ethnl |  -9.437365    7.61832    -1.24   0.219     -24.5748    5.700074
        musl |    2.71673   6.652065     0.41   0.684    -10.50078    15.93424
     fertwdi |  -2.568507   1.961892    -1.31   0.194    -6.466746    1.329731
       lpopd |   1.096542   1.650962     0.66   0.508    -2.183886    4.376969
      urbwdi |  -.2124194   .1534068    -1.38   0.170    -.5172355    .0923968
    hlxpuwdi |   2.837438   1.688461     1.68   0.096    -.5174972    6.192374
       _cons |   7.184741   35.70556     0.20   0.841    -63.76146    78.13094
------------------------------------------------------------------------------
```

Model 3-2: Robust Check 3.2: Outlier checks: Median regression

```
. qreg dtp3con lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi
Iteration  1:  WLS sum of weighted deviations =  1376.0196

Iteration  1: sum of abs. weighted deviations =  1589.6081
Iteration  2: sum of abs. weighted deviations =  1370.1606
Iteration  3: sum of abs. weighted deviations =  1364.8767
Iteration  4: sum of abs. weighted deviations =  1355.0893
Iteration  5: sum of abs. weighted deviations =  1348.4335
Iteration  6: sum of abs. weighted deviations =  1347.2201
Iteration  7: sum of abs. weighted deviations =  1338.4609
Iteration  8: sum of abs. weighted deviations =  1329.1241
Iteration  9: sum of abs. weighted deviations =  1320.4899
Iteration 10: sum of abs. weighted deviations =  1319.4017
Iteration 11: sum of abs. weighted deviations =  1317.6085
Iteration 12: sum of abs. weighted deviations =  1313.8588
Iteration 13: sum of abs. weighted deviations =  1312.8195
Iteration 14: sum of abs. weighted deviations =  1311.9416
Iteration 15: sum of abs. weighted deviations =  1311.7741
Iteration 16: sum of abs. weighted deviations =  1311.7722
Iteration 17: sum of abs. weighted deviations =  1311.2514
```

```
Iteration 18: sum of abs. weighted deviations =  1311.0705

Median regression                                   Number of obs =        98
  Raw sum of deviations     1630 (about 80)
  Min sum of deviations 1311.071                    Pseudo R2     =    0.1957

------------------------------------------------------------------------------
     dtp3con |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   9.327728   3.313406     2.82   0.006      2.74406     15.9114
    giniavni |  -.0144348   .2149415    -0.07   0.947     -.441519    .4126494
       ethnl |  -19.12798   6.037451    -3.17   0.002    -31.12426    -7.13169
        musl |   5.164685   5.307423     0.97   0.333    -5.381052    15.71042
     fertwdi |  -2.991134   1.521747    -1.97   0.052    -6.014813    .0325454
       lpopd |   .2332714   1.282125     0.18   0.856    -2.314284    2.780827
      urbwdi |  -.1727664   .1175829    -1.47   0.145    -.4064011    .0608682
    hlxpuwdi |   1.244602   1.304321     0.95   0.343    -1.347055    3.836259
       _cons |    28.1646   27.27163     1.03   0.305    -26.02354    82.35274
------------------------------------------------------------------------------
```

Model 3-2: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd

```
. regress dtp3con lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi if ctry ~= "Laos" & ctry
~= "Afghanistan", r

Linear regression                                   Number of obs =      96
                                                    F(  8,    87) =    5.86
                                                    Prob > F      =  0.0000
                                                    R-squared     =  0.3464
                                                    Root MSE      =  17.072

------------------------------------------------------------------------------
             |               Robust
     dtp3con |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   10.13589   3.742162     2.71   0.008     2.697938    17.57384
    giniavni |   .0699126   .2127493     0.33   0.743    -.3529497     .492775
       ethnl |  -9.726335   6.658172    -1.46   0.148    -22.96017    3.507504
        musl |   4.347654   5.277883     0.82   0.412     -6.14271    14.83802
     fertwdi |   -2.69875    1.48651    -1.82   0.073     -5.65335    .2558496
       lpopd |   1.058209   1.375456     0.77   0.444    -1.675658    3.792076
      urbwdi |  -.2435564   .1130183    -2.16   0.034    -.4681925   -.0189204
    hlxpuwdi |   2.458607   1.291241     1.90   0.060    -.1078742    5.025088
       _cons |   10.70877   29.33498     0.37   0.716    -47.59767    69.01521
------------------------------------------------------------------------------
```

Model 3-2: Robust Ck 4.1: Endog ck: Corr cand. inst (hlxwdns) & hyp endg reg (hlxpuwdi)

```
. correlate hlxpuwdi hlxwdns
(obs=104)

             | hlxpuwdi  hlxwdns
-------------+------------------
    hlxpuwdi |   1.0000
     hlxwdns |   0.4546   1.0000
```

Model 3-2: Robust Ck 4.2: Endog ck: Does CI predict HER in presence of exog regressors?

```
. ivreg dtp3con lgdph giniavni ethnl musl fertwdi lpopd urbwdi (hlxpuwdi = hlxwdns), first

First-stage regressions
```

```
----------------------

      Source |       SS       df       MS              Number of obs =      98
-------------+------------------------------           F(  8,    89) =    5.79
       Model |  55.9581394     8  6.99476743           Prob > F      =  0.0000
    Residual |  107.591652    89  1.20889496           R-squared     =  0.3421
-------------+------------------------------           Adj R-squared =  0.2830
       Total |  163.549791    97  1.68608032           Root MSE      =  1.0995

------------------------------------------------------------------------------
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.0850674   .2499789    -0.34   0.734    -.5817701    .4116353
    giniavni |   -.015473   .0162149    -0.95   0.343    -.0476916    .0167456
       ethnl |  -.1327357   .4487158    -0.30   0.768    -1.024325    .7588531
        musl |  -.5567362   .3830286    -1.45   0.150    -1.317806    .2043335
     fertwdi |  -.1164589   .1113437    -1.05   0.298    -.3376965    .1047788
       lpopd |   -.252718   .0915236    -2.76   0.007    -.4345734   -.0708627
      urbwdi |   .0121397   .0086755     1.40   0.165    -.0050983    .0293777
     hlxwdns |   .4248194   .0983342     4.32   0.000     .2294314    .6202073
       _cons |   3.477963     2.0047     1.73   0.086    -.5053337    7.461259
------------------------------------------------------------------------------
```

Model 3-2: Robust Check 4.3: Endog ck: 2SLS using hlxwdns as instrument for hlxpuwdi

```
Instrumental variables (2SLS) regression

      Source |       SS       df       MS              Number of obs =      98
-------------+------------------------------           F(  8,    89) =    5.59
       Model |  14456.3365     8  1807.04206           Prob > F      =  0.0000
    Residual |  29559.2962    89  332.126923           R-squared     =  0.3284
-------------+------------------------------           Adj R-squared =  0.2681
       Total |  44015.6327    97  453.769409           Root MSE      =  18.224

------------------------------------------------------------------------------
     dtp3con |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
    hlxpuwdi |   6.016843   3.836701     1.57   0.120    -1.606601    13.64029
       lgdph |   10.69114   4.181737     2.56   0.012     2.382122    19.00017
    giniavni |   .1099013    .262765     0.42   0.677    -.4122072    .6320097
       ethnl |   -5.17993   7.599824    -0.68   0.497    -20.28062    9.920757
        musl |   3.940476   6.382494     0.62   0.539    -8.741404    16.62236
     fertwdi |  -2.393368   1.907472    -1.25   0.213    -6.183473    1.396738
       lpopd |   2.187416   1.765973     1.24   0.219    -1.321534    5.696367
      urbwdi |  -.2480177   .1568516    -1.58   0.117    -.5596784     .063643
       _cons |  -10.27928   37.06145    -0.28   0.782    -83.91958    63.36102
------------------------------------------------------------------------------
Instrumented:  hlxpuwdi
Instruments:   lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxwdns
------------------------------------------------------------------------------
```

Model 3-2: Robust Check 4.4: Endog ck: Hausman test for diff btw coeff of OLS & of 2SLS

```
. estimates store ivwdnsdtp

. regress dtp3con lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi

      Source |       SS       df       MS              Number of obs =      98
-------------+------------------------------           F(  8,    89) =    6.01
       Model |  15436.8903     8  1929.61129           Prob > F      =  0.0000
    Residual |  28578.7423    89  321.109465           R-squared     =  0.3507
-------------+------------------------------           Adj R-squared =  0.2924
```

```
       Total |  44015.6327    97  453.769409           Root MSE      =   17.92

------------------------------------------------------------------------------
     dtp3con |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   10.22498   4.070317     2.51   0.014     2.137343    18.31261
    giniavni |   .1078792   .2583576     0.42   0.677    -.4054718    .6212303
       ethnl |  -7.076158   7.087053    -1.00   0.321    -21.15798    7.005666
        musl |   3.104501    6.18818     0.50   0.617    -9.191281    15.40028
     fertwdi |  -2.739265   1.825079    -1.50   0.137    -6.365658    .8871281
       lpopd |    1.53907   1.535832     1.00   0.319    -1.512596    4.590735
      urbwdi |  -.2012167    .142709    -1.41   0.162    -.4847763     .082343
    hlxpuwdi |   3.272068   1.570715     2.08   0.040     .1510907    6.393046
       _cons |   1.716385   33.21562     0.05   0.959    -64.28235    67.71512
------------------------------------------------------------------------------

. hausman ivwdnsdtp

                 ---- Coefficients ----
             |      (b)          (B)            (b-B)     sqrt(diag(V_b-V_B))
             |   ivwdnsdtp        .          Difference          S.E.
-------------+----------------------------------------------------------------
    hlxpuwdi |    6.016843     3.272068        2.744774        3.500447
       lgdph |    10.69114     10.22498        .4661678        .9588746
    giniavni |    .1099013     .1078792         .002022        .0479248
       ethnl |    -5.17993    -7.076158        1.896228        2.744266
        musl |    3.940476     3.104501        .8359747          1.5629
     fertwdi |   -2.393368    -2.739265        .3458973        .5545581
       lpopd |    2.187416      1.53907        .6483464        .8717112
      urbwdi |   -.2480177    -.2012167        -.046801        .0650889
------------------------------------------------------------------------------
                           b = consistent under Ho and Ha; obtained from ivreg
        B = inconsistent under Ha, efficient under Ho; obtained from regress

    Test:  Ho:  difference in coefficients not systematic

                 chi2(8) = (b-B)'[(V_b-V_B)^(-1)](b-B)
                         =        0.61
               Prob>chi2 =      0.9997
```

Model 3-2: Robust Ck 6.1: IndV: Vary source: WDI to HNP pub sp (hlxpuwdi to hlxpuwb)

```
. regress dtp3con lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb, r

Linear regression                                      Number of obs =      98
                                                       F(  8,    89) =    6.05
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.3633
                                                       Root MSE      =  17.746

------------------------------------------------------------------------------
             |               Robust
     dtp3con |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   9.573838   4.081184     2.35   0.021     1.464613    17.68306
    giniavni |   .1329311   .2375689     0.56   0.577    -.3391132    .6049754
       ethnl |  -5.726467   6.851887    -0.84   0.406    -19.34102    7.888086
        musl |   3.960444   6.359723     0.62   0.535     -8.67619    16.59708
     fertwdi |  -3.246844    1.61692    -2.01   0.048    -6.459629   -.0340591
       lpopd |   1.549895   1.390857     1.11   0.268    -1.213709    4.313498
      urbwdi |  -.1783792   .1169399    -1.53   0.131    -.4107362    .0539779
     hlxpuwb |   3.261822   1.219978     2.67   0.009     .8377513    5.685893
       _cons |   5.607475    29.8511     0.19   0.851    -53.70603    64.92098
```

Model 3-2: Robust Ck 6.2: IndV: Transform: WDI to ln WDI pub sp (hlxpuwdi to lhlxpuwd)

```
. regress dtp3con lgdph giniavni ethnl musl fertwdi lpopd urbwdi lhlxpuwd, r

Linear regression                               Number of obs =      98
                                                F(  8,    89) =    7.75
                                                Prob > F      =  0.0000
                                                R-squared     =  0.4010
                                                Root MSE      =  17.212

------------------------------------------------------------------------------
             |               Robust
     dtp3con |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    11.0544   3.845128     2.87   0.005     3.414217    18.69459
    giniavni |   .0260565   .2217722     0.12   0.907    -.4146002    .4667133
       ethnl |  -8.993035   6.052468    -1.49   0.141    -21.01916    3.033091
        musl |   2.046805   5.621962     0.36   0.717    -9.123914    13.21752
     fertwdi |  -2.342085   1.558823    -1.50   0.137    -5.439434    .7552644
       lpopd |   1.532952   1.287139     1.19   0.237    -1.024565     4.09047
      urbwdi |  -.2596248    .108872    -2.38   0.019    -.4759511   -.0432984
    lhlxpuwd |   10.17134   3.006657     3.38   0.001      4.19718     16.1455
       _cons |   2.067402   29.07879     0.07   0.943    -55.71154    59.84635
------------------------------------------------------------------------------
```

Model 3-2: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)

```
. regress dtp3con lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi, r

Linear regression                               Number of obs =      97
                                                F(  8,    88) =    6.26
                                                Prob > F      =  0.0000
                                                R-squared     =  0.3822
                                                Root MSE      =  17.461

------------------------------------------------------------------------------
             |               Robust
     dtp3con |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdpmx |   11.26978   3.943254     2.86   0.005     3.433395    19.10617
    giniavni |   .1472726   .2370439     0.62   0.536    -.3238023    .6183476
       ethnl |  -5.941065   6.772273    -0.88   0.383    -19.39953    7.517403
        musl |   4.807704   5.673735     0.85   0.399    -6.467652    16.08306
     fertwdi |  -2.257853   1.648439    -1.37   0.174    -5.533779    1.018073
       lpopd |   1.785751   1.474176     1.21   0.229    -1.143864    4.715365
      urbwdi |  -.1833112   .1098179    -1.67   0.099    -.4015512    .0349288
    hlxpuwdi |   3.330817   1.409962     2.36   0.020      .528813    6.132821
       _cons |  -13.40521   31.49076    -0.43   0.671    -75.98649    49.17607
------------------------------------------------------------------------------
```

Model 3-2: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

```
. regress dtp3con lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi gdpmf, r

Linear regression                               Number of obs =      97
                                                F(  9,    87) =    5.55
                                                Prob > F      =  0.0000
                                                R-squared     =  0.3845
                                                Root MSE      =  17.529
```

```
------------------------------------------------------------------------------
             |               Robust
    dtp3con  |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |   10.77739   3.961917     2.72   0.008     2.902651    18.65213
    giniavni |   .1551887   .2390837     0.65   0.518    -.3200161    .6303935
       ethnl |  -6.657263   6.818609    -0.98   0.332    -20.20999    6.895461
        musl |   4.801462   5.721976     0.84   0.404    -6.571584    16.17451
     fertwdi |  -2.013797    1.70384    -1.18   0.240    -5.400363    1.372769
       lpopd |   2.034008   1.586141     1.28   0.203     -1.11862    5.186635
      urbwdi |  -.1555493   .1147751    -1.36   0.179    -.3836773    .0725788
    hlxpuwdi |    3.23665   1.415701     2.29   0.025     .4227911    6.050509
       gdpmf |   6.523946   7.633592     0.85   0.395    -8.648644    21.69654
       _cons |  -13.02216   31.69335    -0.41   0.682    -76.01613    49.97181
------------------------------------------------------------------------------
```

Model 3-2: Robust Check 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)

```
. regress dtp3con lgdph giniavni ethnannx musl fertwdi lpopd urbwdi hlxpuwdi, r

Linear regression                                      Number of obs =      98
                                                       F(  8,    89) =    7.20
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.3752
                                                       Root MSE      =  17.578

------------------------------------------------------------------------------
             |               Robust
    dtp3con  |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    8.63336   3.879144     2.23   0.029     .9255847    16.34114
    giniavni |   .0918072    .238116     0.39   0.701    -.3813242    .5649385
    ethnannx |  -17.64508   7.872441    -2.24   0.027    -33.28745   -2.002708
        musl |   1.821774   5.993745     0.30   0.762    -10.08767    13.73122
     fertwdi |  -2.907961   1.465389    -1.98   0.050    -5.819658    .0037368
       lpopd |   1.015966   1.449595     0.70   0.485    -1.864348     3.89628
      urbwdi |  -.1626164   .1145367    -1.42   0.159    -.3901984    .0649656
    hlxpuwdi |   2.913449   1.363989     2.14   0.035     .2032312    5.623667
       _cons |   23.66182    30.2073     0.78   0.436    -36.35945    83.68309
------------------------------------------------------------------------------
```

Model 3-2: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

```
. regress dtp3con lgdph giniavni ethnannx musl fertwdi lpopd urbwdi hlxpuwdi ethnannf, r

Linear regression                                      Number of obs =      98
                                                       F(  9,    88) =    6.33
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.3752
                                                       Root MSE      =  17.678

------------------------------------------------------------------------------
             |               Robust
    dtp3con  |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   8.604329   4.142297     2.08   0.041     .3723835    16.83627
    giniavni |   .0906622   .2588823     0.35   0.727     -.423812    .6051363
    ethnannx |   -17.6671   8.082139    -2.19   0.031    -33.72865   -1.605546
        musl |   1.826163   5.930102     0.31   0.759    -9.958669    13.61099
     fertwdi |  -2.913609   1.476043    -1.97   0.052    -5.846934    .0197168
       lpopd |    1.01411   1.471011     0.69   0.492    -1.909214    3.937435
```

```
      urbwdi |  -.1617727   .1298698    -1.25   0.216    -.4198617    .0963162
    hlxpuwdi |   2.910556   1.380659     2.11   0.038     .1667859    5.654326
    ethnannf |  -.1510952   7.925505    -0.02   0.985    -15.90137    15.59918
       _cons |   23.95737   34.63362     0.69   0.491    -44.86968    92.78441
------------------------------------------------------------------------------
```

Table 2.3, Model 3-3: Public health spending/GDP and Measles (MCV) Immuniz.

Model 3-3: Bivariate correlations among independent variables

```
             |    lgdph giniavni    ethnl     musl  fertwdi    lpopd   urbwdi hlxpuwdi hlxpuwdi
-------------+---------------------------------------------------------------------------------
       lgdph |   1.0000
    giniavni |   0.0553   1.0000
       ethnl |  -0.4639   0.1837   1.0000
        musl |   0.3037  -0.2999  -0.2504   1.0000
     fertwdi |  -0.6226   0.0745   0.4365   0.1169   1.0000
       lpopd |   0.0816  -0.2807  -0.1644  -0.1579  -0.3660   1.0000
      urbwdi |   0.8128   0.0595  -0.4289   0.2752  -0.5620  -0.0329   1.0000
    hlxpuwdi |   0.2598   0.0658  -0.2482   0.0241  -0.2458  -0.1809   0.3561   1.0000
    hlxpuwdi |   0.2598   0.0658  -0.2482   0.0241  -0.2458  -0.1809   0.3561   1.0000   1.0000
      mcvcon |   0.4840   0.0387  -0.3921   0.0494  -0.4666   0.1234   0.4005   0.3710   0.3710

             |   mcvcon
-------------+---------
      mcvcon |   1.0000
```

Model 3-3: MCV immuniz predicted by 7 baseline variables only

```
. regress mcvcon lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r

Linear regression                               Number of obs =      98
                                                F(  7,    90) =    6.14
                                                Prob > F      =  0.0000
                                                R-squared     =  0.3077
                                                Root MSE      =  16.524

------------------------------------------------------------------------------
             |               Robust
      mcvcon |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   6.432844   3.748899     1.72   0.090    -1.014999    13.88069
    giniavni |   .1560713    .230042     0.68   0.499    -.3009472    .6130898
       ethnl |  -12.05751   6.324839    -1.91   0.060    -24.62291    .5078849
        musl |  -1.524013   6.116788    -0.25   0.804    -13.67608    10.62805
     fertwdi |  -2.647936   1.510358    -1.75   0.083    -5.648527    .3526545
       lpopd |   -.039263   1.367679    -0.03   0.977    -2.756396     2.67787
      urbwdi |  -.0388088    .116898    -0.33   0.741    -.2710472    .1934295
       _cons |   35.44299   27.72402     1.28   0.204     -19.6356    90.52159
------------------------------------------------------------------------------
```

Model 3-3: MCV immuniz predicted by 7 baseline variables + % GDP pub health sp

```
. regress mcvcon lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi, r

Linear regression                               Number of obs =      98
                                                F(  8,    89) =    6.67
```

```
                                                Prob > F      =  0.0000
                                                R-squared     =  0.3591
                                                Root MSE      =  15.988

------------------------------------------------------------------------------
             |               Robust
      mcvcon |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    7.06876   3.712197     1.90   0.060    -.3072965    14.44482
    giniavni |   .1588296   .2102896     0.76   0.452    -.2590113    .5766706
       ethnl |    -9.4708   6.209782    -1.53   0.131     -21.8095    2.867903
        musl |  -.3836304   5.768251    -0.07   0.947    -11.84502    11.07776
     fertwdi |  -2.176085   1.515351    -1.44   0.155    -5.187056    .8348854
       lpopd |    .845169   1.333563     0.63   0.528    -1.804593    3.494931
      urbwdi |  -.1026517    .106443    -0.96   0.337    -.3141518    .1088483
    hlxpuwdi |   3.744242   1.197788     3.13   0.002     1.364262    6.124222
       _cons |   19.07929   28.14368     0.68   0.500     -36.8416    75.00018
------------------------------------------------------------------------------
```

Model 3-3: Means and SDs of % GDP to public health spending and mcv immz

```
. summarize hlxpuwdi

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    hlxpuwdi |       105    2.001905    1.275206          0          7


. summarize mcvcon

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
      mcvcon |        98    71.40816    19.12996         20         98
```

Model 3-3: How much would MCV immz rise if pub health spending/GDP rose 1 SD?

```
. estsimp regress mcvcon lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi, r

Linear regression                               Number of obs =      98
                                                F(  8,    89) =    6.67
                                                Prob > F      =  0.0000
                                                R-squared     =  0.3591
                                                Root MSE      =  15.988

------------------------------------------------------------------------------
             |               Robust
      mcvcon |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    7.06876   3.712197     1.90   0.060    -.3072965    14.44482
    giniavni |   .1588296   .2102896     0.76   0.452    -.2590113    .5766706
       ethnl |    -9.4708   6.209782    -1.53   0.131     -21.8095    2.867903
        musl |  -.3836304   5.768251    -0.07   0.947    -11.84502    11.07776
     fertwdi |  -2.176085   1.515351    -1.44   0.155    -5.187056    .8348854
       lpopd |    .845169   1.333563     0.63   0.528    -1.804593    3.494931
      urbwdi |  -.1026517    .106443    -0.96   0.337    -.3141518    .1088483
    hlxpuwdi |   3.744242   1.197788     3.13   0.002     1.364262    6.124222
       _cons |   19.07929   28.14368     0.68   0.500     -36.8416    75.00018
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....
% of simulations completed: 11% 22% 33% 44% 55% 66% 77% 88% 100%
```

```
Simulating sigma-squared.  Please wait


Number of simulations  : 1000
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9 b10

. setx mean

. simqi, fd(ev) changex(hlxpuwdi 2.001905 3.277111)

First Difference: hlxpuwdi 2.001905 3.277111

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+-----------------------------------------------
                dE(mcvcon) |   4.745586     1.476834     1.792023    7.689022
```

Model 3-3: Robustness checks

Model 3-3: Robust Check 1.1: Change specification: Exclude fertility

```
. regress mcvcon lgdph giniavni ethnl musl lpopd urbwdi hlxpuwdi, r

Linear regression                                      Number of obs =      98
                                                       F(  7,    90) =    6.77
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.3462
                                                       Root MSE      =  16.058

------------------------------------------------------------------------------
             |               Robust
      mcvcon |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   8.910832   3.160989     2.82   0.006     2.630976    15.19069
    giniavni |   .1021054   .2026251     0.50   0.616    -.3004447    .5046556
       ethnl |  -11.03121   5.971214    -1.85   0.068    -22.89407    .8316497
        musl |  -3.612889   5.058931    -0.71   0.477    -13.66334    6.437561
       lpopd |   1.415349   1.295993     1.09   0.278    -1.159368    3.990066
      urbwdi |  -.0700782   .1093074    -0.64   0.523    -.2872364      .14708
    hlxpuwdi |    3.94736    1.21369     3.25   0.002     1.536153    6.358567
       _cons |  -5.504549   20.44108    -0.27   0.788    -46.11433    35.10523
------------------------------------------------------------------------------
```

Model 3-3: Robust Check 1.2: Change specification: Include mean years of female school

```
. regress mcvcon lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi mysfx, r

Linear regression                                      Number of obs =      98
                                                       F(  9,    88) =    5.97
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.3614
                                                       Root MSE      =  16.049

------------------------------------------------------------------------------
             |               Robust
      mcvcon |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   6.474926   3.793817     1.71   0.091    -1.064488    14.01434
    giniavni |   .1584846   .2109358     0.75   0.454     -.260706    .5776752
       ethnl |   -8.83767   6.364835    -1.39   0.168    -21.48644    3.811102
        musl |   .8548354   6.289523     0.14   0.892    -11.64427    13.35394
     fertwdi |  -1.675438   1.745469    -0.96   0.340    -5.144191    1.793315
```

```
       lpopd |   .9545682   1.358004     0.70   0.484     -1.74418    3.653317
      urbwdi |  -.1112652   .1070415    -1.04   0.301    -.3239876    .1014572
    hlxpuwdi |   3.627349   1.194758     3.04   0.003     1.253018     6.00168
       mysfx |   .8227962   1.268638     0.65   0.518    -1.698355    3.343947
       _cons |   17.93373   28.63879     0.63   0.533    -38.97985     74.8473
------------------------------------------------------------------------------
```

Model 3-3: Robust Check 1.3: Change specification: Include female literacy

```
. regress mcvcon lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi litfewdi, r

Linear regression                               Number of obs =      98
                                                F(  9,    88) =    6.20
                                                Prob > F      =  0.0000
                                                R-squared     =  0.3683
                                                Root MSE      =  15.963

------------------------------------------------------------------------------
             |               Robust
      mcvcon |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   6.282711   3.775407     1.66   0.100    -1.220117    13.78554
    giniavni |   .1323067   .2154658     0.61   0.541    -.2958863    .5604997
       ethnl |  -7.675509   6.396406    -1.20   0.233    -20.38702    5.036005
        musl |   2.416031   6.403245     0.38   0.707    -10.30907    15.14113
     fertwdi |  -.9867084   1.860214    -0.53   0.597    -4.683494    2.710077
       lpopd |   1.066109   1.357432     0.79   0.434    -1.631502    3.763721
      urbwdi |  -.1148808   .1069771    -1.07   0.286    -.3274753    .0977136
    hlxpuwdi |   3.430844   1.214993     2.82   0.006     1.016301    5.845387
    litfewdi |   .1321571    .120807     1.09   0.277    -.1079215    .3722357
       _cons |   12.14655   28.71972     0.42   0.673    -44.92786    69.22095
------------------------------------------------------------------------------
```

Model 3-3: Robust Check 1.4: Change specification: Include geographical variables

```
. regress mcvcon lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi airdist popcrgs latcapab, r

Linear regression                               Number of obs =      98
                                                F( 11,    86) =    6.90
                                                Prob > F      =  0.0000
                                                R-squared     =  0.3746
                                                Root MSE      =  16.066

------------------------------------------------------------------------------
             |               Robust
      mcvcon |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   7.625985   3.835193     1.99   0.050     .0018724     15.2501
    giniavni |   .1732379    .220964     0.78   0.435    -.2660239    .6124997
       ethnl |  -7.574203   6.367621    -1.19   0.238    -20.23261    5.084208
        musl |  -3.398392   6.473084    -0.53   0.601    -16.26646    9.469672
     fertwdi |  -1.815412   1.732022    -1.05   0.298    -5.258557    1.627732
       lpopd |    1.41078   1.357295     1.04   0.302    -1.287432    4.108993
      urbwdi |  -.0918681    .109103    -0.84   0.402    -.3087577    .1250215
    hlxpuwdi |   3.636754   1.135852     3.20   0.002     1.378755    5.894752
     airdist |   .0000151   .0008379     0.02   0.986    -.0016506    .0016807
     popcrgs |  -.0345719   .0577897    -0.60   0.551     -.149454    .0803103
    latcapab |   .2259654    .157041     1.44   0.154    -.0862217    .5381525
       _cons |   7.511201   28.67959     0.26   0.794    -49.50195    64.52435
------------------------------------------------------------------------------
```

Model 3-3: Robust Check 1.5: Change specification: Include regional dummy variables

```
. regress mcvcon lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi afri lati east sout, r

Linear regression                                       Number of obs =      98
                                                        F( 12,    85) =    6.83
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.4084
                                                        Root MSE      =  15.718

------------------------------------------------------------------------------
             |               Robust
      mcvcon |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   4.782316   4.252335     1.12   0.264    -3.672464     13.2371
    giniavni |   .3719727   .2247887     1.65   0.102    -.0749675    .8189129
       ethnl |  -15.93278    6.52067    -2.44   0.017    -28.89761   -2.967938
        musl |   -7.60852   7.901059    -0.96   0.338    -23.31794    8.100902
     fertwdi |  -3.567122   1.651023    -2.16   0.034    -6.849797   -.2844471
       lpopd |   .5359763   1.322774     0.41   0.686    -2.094052    3.166005
      urbwdi |  -.0139211   .1322693    -0.11   0.916     -.276908    .2490657
    hlxpuwdi |   4.065325   1.086572     3.74   0.000     1.904928    6.225721
        afri |  -3.739322   9.850782    -0.38   0.705    -23.32532    15.84667
        lati |  -18.36667   10.25264    -1.79   0.077    -38.75166    2.018323
        east |  -7.179725   9.560894    -0.75   0.455    -26.18934    11.82989
        sout |  -3.604666   9.797845    -0.37   0.714    -23.08541    15.87608
       _cons |   41.32555   33.93211     1.22   0.227    -26.14057    108.7917
------------------------------------------------------------------------------
```

Model 3-3: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress mcvcon lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi gdphf giniavnf ethnlf, r

Linear regression                                       Number of obs =      98
                                                        F( 10,    87) =    6.02
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.3710
                                                        Root MSE      =   16.02

------------------------------------------------------------------------------
             |               Robust
      mcvcon |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   6.498456   3.568653     1.82   0.072    -.5946288    13.59154
    giniavni |    .253797   .2404489     1.06   0.294    -.2241213    .7317153
       ethnl |  -8.564112   6.369456    -1.34   0.182     -21.2241    4.095872
        musl |    .045633    6.03467     0.01   0.994    -11.94893    12.04019
     fertwdi |  -2.667078   1.601981    -1.66   0.100    -5.851189    .5170332
       lpopd |   .7708975   1.386168     0.56   0.580    -1.984261    3.526056
      urbwdi |  -.1201836   .1130845    -1.06   0.291    -.3449514    .1045842
    hlxpuwdi |   3.309612   1.246327     2.66   0.009     .8324012    5.786822
       gdphf |  (dropped)
    giniavnf |  -.0835801   6.182207    -0.01   0.989    -12.37139    12.20422
      ethnlf |   10.00925   7.657662     1.31   0.195    -5.211184    25.22968
       _cons |   22.46169   26.54861     0.85   0.400    -30.30654    75.22993
------------------------------------------------------------------------------
```

Model 3-3: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg mcvcon lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi

   Huber iteration 1:  maximum difference in weights = .39793075
```

```
   Huber iteration 2:  maximum difference in weights = .08045214
   Huber iteration 3:  maximum difference in weights = .01809753
Biweight iteration 4:  maximum difference in weights = .14979829
Biweight iteration 5:  maximum difference in weights = .00825799

Robust regression                                       Number of obs =      98
                                                        F(  8,    89) =    5.41
                                                        Prob > F      =  0.0000

------------------------------------------------------------------------------
      mcvcon |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   6.803261   3.888304     1.75   0.084    -.9227164    14.52924
    giniavni |   .1861108   .2468046     0.75   0.453    -.3042847    .6765062
       ethnl |  -12.50987   6.770141    -1.85   0.068    -25.96199    .9422589
        musl |   .7720685   5.911462     0.13   0.896    -10.97388    12.51802
     fertwdi |  -1.915785   1.743467    -1.10   0.275    -5.380016    1.548446
       lpopd |   .9954706   1.467154     0.68   0.499    -1.919733    3.910674
      urbwdi |  -.1083826   .1363274    -0.80   0.429    -.3792623    .1624971
    hlxpuwdi |    3.50495   1.500477     2.34   0.022     .5235331    6.486366
       _cons |   20.19986   31.73031     0.64   0.526     -42.8476    83.24732
------------------------------------------------------------------------------
```

Model 3-3: Robust Check 3.2: Outlier checks: Median regression

```
. qreg mcvcon lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi
Iteration  1:  WLS sum of weighted deviations =  1231.4757

Iteration  1: sum of abs. weighted deviations =  21387.338
Iteration  2: sum of abs. weighted deviations =  1231.7536
Iteration  3: sum of abs. weighted deviations =  1224.3042
Iteration  4: sum of abs. weighted deviations =  1195.3686
Iteration  5: sum of abs. weighted deviations =  1191.7657
Iteration  6: sum of abs. weighted deviations =  1190.5205
Iteration  7: sum of abs. weighted deviations =  1183.9911
Iteration  8: sum of abs. weighted deviations =   1183.947
Iteration  9: sum of abs. weighted deviations =  1180.0373
Iteration 10: sum of abs. weighted deviations =  1179.2588
Iteration 11: sum of abs. weighted deviations =  1178.7981
Iteration 12: sum of abs. weighted deviations =  1178.5767
Iteration 13: sum of abs. weighted deviations =   1178.437

Median regression                                   Number of obs =        98
  Raw sum of deviations     1476 (about 78)
  Min sum of deviations 1178.437                    Pseudo R2     =    0.2016

------------------------------------------------------------------------------
      mcvcon |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   2.963436   4.191352     0.71   0.481    -5.364691    11.29156
    giniavni |   .2014393   .2491323     0.81   0.421    -.2935813    .6964599
       ethnl |  -16.21854   7.485356    -2.17   0.033    -31.09178   -1.345299
        musl |     5.9716   6.678182     0.89   0.374    -7.297806    19.24101
     fertwdi |  -3.146163   1.849345    -1.70   0.092    -6.820772    .5284468
       lpopd |   .7886237    1.51762     0.52   0.605    -2.226856    3.804103
      urbwdi |  -.0523293   .1408528    -0.37   0.711    -.3322009    .2275422
    hlxpuwdi |   4.150285   1.588365     2.61   0.011     .9942375    7.306332
       _cons |   52.67087   32.95397     1.60   0.114    -12.80796    118.1497
------------------------------------------------------------------------------
```

Model 3-3: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd

```
. regress mcvcon lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi if ctry ~= "Oman" & ctry ~=
"Afghanistan", r

Linear regression                                       Number of obs =      96
                                                        F(  8,    87) =    6.40
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.3564
                                                        Root MSE      =   15.42

------------------------------------------------------------------------------
             |               Robust
      mcvcon |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   4.071464   3.679999     1.11   0.272    -3.242934    11.38586
    giniavni |   .2802335   .2068123     1.36   0.179    -.1308284    .6912953
       ethnl |  -8.463888   6.328954    -1.34   0.185    -21.04337    4.115594
        musl |   3.983175   4.943475     0.81   0.423    -5.842517    13.80887
     fertwdi |  -3.252073   1.503657    -2.16   0.033    -6.240754   -.2633925
       lpopd |   1.159147   1.372948     0.84   0.401    -1.569736     3.88803
      urbwdi |  -.0949709   .1064509    -0.89   0.375    -.3065537    .1166119
    hlxpuwdi |   3.613352   1.183827     3.05   0.003     1.260368    5.966337
       _cons |    39.3361   27.67219     1.42   0.159    -15.66537    94.33756
------------------------------------------------------------------------------
```

Model 3-3: Robust Ck 4.1: Endog ck: Corr cand. inst (hlxwdns) & hyp endg reg (hlxpuwdi)

```
. correlate hlxpuwdi hlxwdns
(obs=104)

             | hlxpuwdi  hlxwdns
-------------+------------------
    hlxpuwdi |   1.0000
     hlxwdns |   0.4546   1.0000
```

Model 3-3: Robust Ck 4.2: Endog ck: Does CI predict HER in presence of exog regressors?

```
. ivreg mcvcon lgdph giniavni ethnl musl fertwdi lpopd urbwdi (hlxpuwdi = hlxwdns), first

First-stage regressions
-----------------------

      Source |       SS       df       MS              Number of obs =      98
-------------+------------------------------           F(  8,    89) =    5.79
       Model |  55.9581394     8  6.99476743           Prob > F      =  0.0000
    Residual |  107.591652    89  1.20889496           R-squared     =  0.3421
-------------+------------------------------           Adj R-squared =  0.2830
       Total |  163.549791    97  1.68608032           Root MSE      =  1.0995

------------------------------------------------------------------------------
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.0850674   .2499789    -0.34   0.734    -.5817701    .4116353
    giniavni |   -.015473   .0162149    -0.95   0.343    -.0476916    .0167456
       ethnl |  -.1327357   .4487158    -0.30   0.768    -1.024325    .7588531
        musl |  -.5567362   .3830286    -1.45   0.150    -1.317806    .2043335
     fertwdi |  -.1164589   .1113437    -1.05   0.298    -.3376965    .1047788
       lpopd |   -.252718   .0915236    -2.76   0.007    -.4345734   -.0708627
      urbwdi |   .0121397   .0086755     1.40   0.165    -.0050983    .0293777
     hlxwdns |   .4248194   .0983342     4.32   0.000     .2294314    .6202073
       _cons |   3.477963     2.0047     1.73   0.086    -.5053337    7.461259
------------------------------------------------------------------------------
```

Model 3-3: Robust Check 4.3: Endog ck: 2SLS using hlxwdns as instrument for hlxpuwdi

```
Instrumental variables (2SLS) regression

      Source |       SS       df       MS              Number of obs =      98
-------------+------------------------------           F(  8,    89) =    5.57
       Model |   12509.904     8    1563.738           Prob > F      =  0.0000
    Residual |  22987.7695    89  258.289544           R-squared     =  0.3524
-------------+------------------------------           Adj R-squared =  0.2942
       Total |  35497.6735    97  365.955397           Root MSE      =  16.071

------------------------------------------------------------------------------
      mcvcon |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
    hlxpuwdi |   5.095477   3.383447     1.51   0.136    -1.627359    11.81831
       lgdph |   7.298251   3.687721     1.98   0.051    -.0291718    14.62567
    giniavni |   .1598251   .2317228     0.69   0.492    -.3006033    .6202534
       ethnl |  -8.537299   6.702007    -1.27   0.206    -21.85405    4.779446
        musl |   .0279146   5.628489     0.00   0.996    -11.15577     11.2116
     fertwdi |  -2.005802    1.68213    -1.19   0.236    -5.348158    1.336553
       lpopd |   1.164346   1.557347     0.75   0.457     -1.93007    4.258761
      urbwdi |  -.1256916   .1383217    -0.91   0.366    -.4005338    .1491506
       _cons |    13.1739   32.68314     0.40   0.688     -51.7668     78.1146
------------------------------------------------------------------------------
Instrumented:  hlxpuwdi
Instruments:   lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxwdns
------------------------------------------------------------------------------
```

Model 3-3: Robust Check 4.4: Endog ck: Hausman test for diff btw coeff of OLS & of 2SLS

```
. estimates store ivwdnsmcv

. regress mcvcon lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi

      Source |       SS       df       MS              Number of obs =      98
-------------+------------------------------           F(  8,    89) =    6.23
       Model |  12747.5443     8  1593.44303           Prob > F      =  0.0000
    Residual |  22750.1292    89  255.619429           R-squared     =  0.3591
-------------+------------------------------           Adj R-squared =  0.3015
       Total |  35497.6735    97  365.955397           Root MSE      =  15.988

------------------------------------------------------------------------------
      mcvcon |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    7.06876   3.631605     1.95   0.055    -.1471622    14.28468
    giniavni |   .1588296    .230511     0.69   0.493    -.2991908      .61685
       ethnl |    -9.4708   6.323188    -1.50   0.138    -22.03484    3.093239
        musl |  -.3836304   5.521198    -0.07   0.945    -11.35413    10.58687
     fertwdi |  -2.176085   1.628366    -1.34   0.185    -5.411614    1.059443
       lpopd |    .845169   1.370295     0.62   0.539    -1.877578    3.567916
      urbwdi |  -.1026517   .1273273    -0.81   0.422    -.3556484    .1503449
    hlxpuwdi |   3.744242   1.401418     2.67   0.009     .9596536    6.528831
       _cons |   19.07929   29.63554     0.64   0.521    -39.80589    77.96447
------------------------------------------------------------------------------

. hausman ivwdnsmcv

                 ---- Coefficients ----
             |      (b)          (B)            (b-B)     sqrt(diag(V_b-V_B))
             |   ivwdnsmcv        .          Difference          S.E.
-------------+----------------------------------------------------------------
    hlxpuwdi |    5.095477     3.744242        1.351235        3.079568
```

```
       lgdph |    7.298251      7.06876        .2294915        .6408825
    giniavni |    .1598251     .1588296        .0009954        .0236679
       ethnl |   -8.537299     -9.4708          .933501        2.221305
        musl |    .0279146    -.3836304        .4115451        1.093734
     fertwdi |   -2.005802    -2.176085        .1702831        .4218816
       lpopd |    1.164346      .845169        .3191769        .7400145
      urbwdi |   -.1256916    -.1026517       -.0230398        .0540429
------------------------------------------------------------------------------
                           b = consistent under Ho and Ha; obtained from ivreg
         B = inconsistent under Ha, efficient under Ho; obtained from regress

    Test:  Ho:  difference in coefficients not systematic

                  chi2(8) = (b-B)'[(V_b-V_B)^(-1)](b-B)
                          =        0.19
                Prob>chi2 =      1.0000
```

Model 3-3: Robust Ck 6.1: IndV: Vary source: WDI to HNP pub sp (hlxpuwdi to hlxpuwb)

```
. regress mcvcon lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb, r

Linear regression                                      Number of obs =      98
                                                       F(  8,    89) =    6.77
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.3536
                                                       Root MSE      =  16.056

------------------------------------------------------------------------------
             |               Robust
      mcvcon |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   6.345516    3.84434     1.65   0.102    -1.293106    13.98414
    giniavni |   .1812059   .2139335     0.85   0.399    -.2438755    .6062872
       ethnl |  -8.753326   6.498853    -1.35   0.181    -21.66641    4.159756
        musl |   .1714756   6.035278     0.03   0.977    -11.82049    12.16344
     fertwdi |  -2.735096   1.544182    -1.77   0.080    -5.803353    .3331616
       lpopd |   .6780296   1.278024     0.53   0.597    -1.861377    3.217436
      urbwdi |  -.0689699   .1079487    -0.64   0.525    -.2834617     .145522
     hlxpuwb |   2.985337   1.042752     2.86   0.005     .9134105    5.057263
       _cons |   25.91626   27.88527     0.93   0.355    -29.49118    81.32371
------------------------------------------------------------------------------
```

Model 3-3: Robust Ck 6.2: IndV: Transform: WDI to ln WDI pub sp (hlxpuwdi to lhlxpuwd)

```
. regress mcvcon lgdph giniavni ethnl musl fertwdi lpopd urbwdi lhlxpuwd, r

Linear regression                                      Number of obs =      98
                                                       F(  8,    89) =    9.10
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.4090
                                                       Root MSE      =  15.353

------------------------------------------------------------------------------
             |               Robust
      mcvcon |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   7.816306   3.638446     2.15   0.034     .5867922    15.04582
    giniavni |   .0767559   .1980119     0.39   0.699    -.3166895    .4702013
       ethnl |   -11.7143   5.477126    -2.14   0.035    -22.59723   -.8313647
        musl |  -1.585062   5.376852    -0.29   0.769    -12.26875    9.098629
     fertwdi |  -1.839395   1.463839    -1.26   0.212    -4.748012    1.069222
```

```
       lpopd |   .7265848   1.227378     0.59   0.555     -1.71219    3.165359
      urbwdi |  -.1528697   .0990759    -1.54   0.126    -.3497313     .043992
    lhlxpuwd |   10.15895   2.312417     4.39   0.000     5.564225    14.75367
       _cons |   21.51087   27.08795     0.79   0.429     -32.3123    75.33405
------------------------------------------------------------------------------
```

Model 3-3: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)

```
. regress mcvcon lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi, r

Linear regression                                      Number of obs =      97
                                                       F(  8,    88) =    6.61
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.3806
                                                       Root MSE      =  15.702

------------------------------------------------------------------------------
             |               Robust
      mcvcon |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |   7.037226   3.769268     1.87   0.065    -.4534024    14.52786
    giniavni |   .2065298   .2083262     0.99   0.324    -.2074747    .6205343
       ethnl |   -8.65951    6.15363    -1.41   0.163    -20.88856    3.569537
        musl |   1.168829   5.480514     0.21   0.832    -9.722541     12.0602
     fertwdi |  -1.951285   1.560484    -1.25   0.214    -5.052419     1.14985
       lpopd |   1.128678    1.33255     0.85   0.399    -1.519485    3.776841
      urbwdi |   -.067738   .1026769    -0.66   0.511    -.2717867    .1363107
    hlxpuwdi |   3.763273    1.18821     3.17   0.002     1.401956     6.12459
       _cons |   12.47745   29.66731     0.42   0.675     -46.4801      71.435
------------------------------------------------------------------------------
```

Model 3-3: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

```
. regress mcvcon lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi gdpmf, r

Linear regression                                      Number of obs =      97
                                                       F(  9,    87) =    5.80
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.3806
                                                       Root MSE      =  15.791

------------------------------------------------------------------------------
             |               Robust
      mcvcon |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |   7.085966   3.855506     1.84   0.069    -.5772699     14.7492
    giniavni |   .2057462   .2106448     0.98   0.331    -.2129332    .6244256
       ethnl |  -8.588617   6.356023    -1.35   0.180     -21.2219    4.044667
        musl |   1.169447    5.50875     0.21   0.832    -9.779789    12.11868
     fertwdi |  -1.975442   1.627592    -1.21   0.228    -5.210458    1.259573
       lpopd |   1.104105   1.436639     0.77   0.444    -1.751371     3.95958
      urbwdi |   -.070486   .1112064    -0.63   0.528    -.2915207    .1505487
    hlxpuwdi |   3.772595   1.204391     3.13   0.002     1.378738    6.166451
       gdpmf |  -.6457709   5.601125    -0.12   0.908    -11.77861    10.48707
       _cons |   12.43953   29.77955     0.42   0.677    -46.75054    71.62961
------------------------------------------------------------------------------
```

Model 3-3: Robust Check 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)

```
. regress mcvcon lgdph giniavni ethnannx musl fertwdi lpopd hlxpuwdi, r
```

```
Linear regression                                       Number of obs =      98
                                                        F(  7,    90) =    9.69
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.3932
                                                        Root MSE      =  15.471

------------------------------------------------------------------------------
             |               Robust
      mcvcon |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   4.305348   2.960685     1.45   0.149    -1.57657    10.18727
    giniavni |   .1315974   .2034204     0.65   0.519    -.2725327    .5357274
    ethnannx |  -20.56829   7.785579    -2.64   0.010     -36.0357   -5.100875
        musl |  -1.976818   5.412329    -0.37   0.716    -12.72935    8.775719
     fertwdi |  -2.286164   1.386954    -1.65   0.103     -5.04159     .469262
       lpopd |   .3599379    1.23948     0.29   0.772    -2.102505     2.82238
    hlxpuwdi |   3.246386   1.052929     3.08   0.003     1.154559    5.338213
       _cons |    48.2605   26.73696     1.81   0.074    -4.857138    101.3781
------------------------------------------------------------------------------
```

Model 3-3: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

```
. regress mcvcon lgdph giniavni ethnannx musl fertwdi lpopd urbwdi hlxpuwdi ethnannf
> , r

Linear regression                                       Number of obs =      98
                                                        F(  9,    88) =    7.45
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.3964
                                                        Root MSE      =  15.604

------------------------------------------------------------------------------
             |               Robust
      mcvcon |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   4.657057   3.984273     1.17   0.246    -3.260849    12.57496
    giniavni |   .1087368    .216328     0.50   0.616    -.3211696    .5386433
    ethnannx |  -20.71015   8.107297    -2.55   0.012     -36.8217   -4.598602
        musl |  -1.540721   5.186254    -0.30   0.767    -11.84731    8.765869
     fertwdi |  -2.564033   1.390711    -1.84   0.069    -5.327779    .1997127
       lpopd |   .2301987   1.299856     0.18   0.860    -2.352991    2.813389
      urbwdi |  -.0378537   .1180623    -0.32   0.749    -.2724777    .1967702
    hlxpuwdi |   3.313586   1.104901     3.00   0.004     1.117827    5.509344
    ethnannf |  -3.470229   8.599076    -0.40   0.688    -20.55909    13.61863
       _cons |   50.14212   31.91803     1.57   0.120    -13.28825    113.5725
------------------------------------------------------------------------------
```

Table 2.3, Models 3-4 to 3-10: Public Health Spending and Infant Mortality

Table 2.3: Summary of robustness checks for Models 3-4, 3-5, 3-6, and 3-7

This table gives the t-score of the association between the share of GDP devoted to public health spending and infant mortality in the context of 16 checks for robustness. The statistical output follows the table. In each check for robustness the 7 socioeconomic "baseline"variables (Model 2-3) are controlled for, just as in the models in Table 2.3.

Model 3-4 Model 3-5 Model 3-6 Model 3-7

Dependent variable	Spending data from WDI, all cases included	Spending data from WDI, 2 outliers excluded	Spending data from HNP, all cases included	Spending data from HNP, 2 outliers excluded
Basic Model	-1.21	*-2.39	-1.21	-1.85
1.1. Specif: Excl fertility	-1.39	*-2.44	-1.00	-1.33
1.2. Specif: Incl fem sch	-0.80	*-2.01	-0.62	-1.15
1.3. Specif: Incl fem lit	-0.77	†-1.91	-0.56	-1.04
1.4. Specif: Incl geogr	-1.49	*-2.41	-1.36	-1.90
1.5. Specif: Incl reg dum	-1.10	*-2.59	-1.13	-1.97
2.1. Imput: msg data flags	-0.84	*-2.09	-0.75	-1.53
3.1. Outliers: rreg	-2.19	*-2.11	-1.59	-1.49
3.2. Outliers: qreg	-1.06	-0.81	-1.16	-1.02
3.3. Outliers: cooksd	-2.39		-1.85	
4.4. Endog: 2SLS	-0.94	-1.06		-1.02
5.1. DV: lu5mrcom	-1.38	*-2.61	-1.36	-1.84
5.2. DV: limrwdi	-1.61	*-2.38	-1.43	-1.72
6.2a: IV: lhlxpuwd	-1.34	†-1.77		
6.2b. IV: lhlxpuwb			-1.40	-1.77
7.1. IV: lgdpmx	-1.53	*-2.26	-1.12	-1.41
7.2. IV: lgdpmx, mdf	-1.50	*-2.23	-1.09	-1.39
7.3. IV: ethnannx	-1.19	*-2.34	-1.15	-1.79
7.4. IV: ethnannx, mdf	-1.28	*-2.36	-1.10	-1.76
Basic model clarify		-4.45		-3.07

Table 2.3: Bivariate correlations among independent variables

```
. correlate lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi hlxwdns
(obs=104)

             |    lgdph giniavni    ethnl     musl  fertwdi    lpopd   urbwdi hlxpuwdi
-------------+------------------------------------------------------------------------
       lgdph |   1.0000
    giniavni |  -0.0076   1.0000
       ethnl |  -0.4703   0.2481   1.0000
        musl |   0.2908  -0.2990  -0.2894   1.0000
     fertwdi |  -0.6499   0.1266   0.4350   0.1217   1.0000
       lpopd |   0.1918  -0.3031  -0.1943  -0.1208  -0.4129   1.0000
      urbwdi |   0.8282   0.0055  -0.4325   0.2650  -0.5866   0.0986   1.0000
    hlxpuwdi |   0.2557   0.0818  -0.2295   0.0245  -0.2386  -0.1737   0.3402   1.0000
     hlxwdns |   0.2151   0.0981  -0.3426   0.1740  -0.1495  -0.0674   0.2483   0.4546
```

Table 2.3: Infant mortality predicted by 7 baseline variables only (same as Model 2-3)

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r

Linear regression                                      Number of obs =     105
                                                       F(  7,    97) =  115.48
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8460
                                                       Root MSE      =  .32809

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5106892   .0728516    -7.01   0.000    -.6552793    -.366099
    giniavni |   .0098456   .0057971     1.70   0.093      -.00166    .0213512
       ethnl |   .2291501   .1208339     1.90   0.061    -.0106718     .468972
        musl |   .3573075   .1090143     3.28   0.001     .1409443    .5736707
     fertwdi |   .0883452   .0306893     2.88   0.005     .0274354    .1492551
       lpopd |  -.0713372   .0317142    -2.25   0.027    -.1342811   -.0083933
      urbwdi |  -.0046217   .0022445    -2.06   0.042    -.0090765   -.0001669
       _cons |   7.311515   .6431156    11.37   0.000     6.035109    8.587922
------------------------------------------------------------------------------
```

Table 2.3, Model 3-4: Public Health Spending/GDP (WB-WDI, all cases) and IMR

Model 3-4: IMR predicted by 7 baseline var. and pub hlth sp/GDP (WB-WDI, all cases)

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi, r

Linear regression                                      Number of obs =     105
                                                       F(  8,    96) =  101.34
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8497
                                                       Root MSE      =   .3258

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5173432   .0726147    -7.12   0.000    -.6614823   -.3732042
    giniavni |   .0100715   .0059896     1.68   0.096    -.0018178    .0219607
       ethnl |   .2011566   .1181155     1.70   0.092    -.0333008    .4356139
        musl |   .3473362   .1092465     3.18   0.002     .1304836    .5641889
     fertwdi |   .0825682   .0303003     2.72   0.008     .0224225    .1427139
       lpopd |  -.0816206   .0307725    -2.65   0.009    -.1427037   -.0205376
      urbwdi |  -.0039242   .0021762    -1.80   0.074    -.0082439    .0003955
    hlxpuwdi |  -.0431812   .0357102    -1.21   0.230    -.1140654    .0277029
       _cons |   7.486696   .6086059    12.30   0.000     6.278623    8.694769
------------------------------------------------------------------------------
```

Model 3-4: Means and SDs of pub hlth sp/GDP (WB-WDI, all cases) and infant mortality

```
. summarize imrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
      imrcom |       105    70.13333    45.54712          6        202

. summarize limrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
```

```
     limrcom |       105    3.985123     .807504   1.791759   5.308268

. summarize u5mrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     u5mrcom |       105    104.2857    77.10965          7        323

. summarize lu5mrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    lu5mrcom |       105    4.303227    .9223653    1.94591   5.777652

. summarize hlxpuwdi

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    hlxpuwdi |       105    2.001905    1.275206          0          7
```

Model 3-4: How much wld IMR fall if pub hlth sp/GDP (WB-WDI, all cases) rose 1 SD?

```
. estsimp regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi,
> r

Linear regression                                      Number of obs =     105
                                                       F(  8,    96) =  101.34
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8497
                                                       Root MSE      =   .3258

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5173432   .0726147    -7.12   0.000    -.6614823   -.3732042
    giniavni |   .0100715   .0059896     1.68   0.096    -.0018178    .0219607
       ethnl |   .2011566   .1181155     1.70   0.092    -.0333008    .4356139
        musl |   .3473362   .1092465     3.18   0.002     .1304836    .5641889
     fertwdi |   .0825682   .0303003     2.72   0.008     .0224225    .1427139
       lpopd |  -.0816206   .0307725    -2.65   0.009    -.1427037   -.0205376
      urbwdi |  -.0039242   .0021762    -1.80   0.074    -.0082439    .0003955
    hlxpuwdi |  -.0431812   .0357102    -1.21   0.230    -.1140654    .0277029
       _cons |   7.486696   .6086059    12.30   0.000     6.278623    8.694769
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....
% of simulations completed: 11% 22% 33% 44% 55% 66% 77% 88% 100%


Simulating sigma-squared.  Please wait


Number of simulations  : 1000
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9 b10

. setx mean

. estsimp regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi,
>  r

Linear regression                                      Number of obs =     105
                                                       F(  8,    96) =  115.70
```

```
                                                      Prob > F      =  0.0000
                                                      R-squared     =  0.8515
                                                      Root MSE      =     .37

------------------------------------------------------------------------------
             |               Robust
    lu5mrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5451915   .0882932    -6.17   0.000    -.7204521   -.3699308
    giniavni |    .008237   .0067109     1.23   0.223     -.005084    .0215579
       ethnl |   .2759885   .1360848     2.03   0.045     .0058624    .5461147
        musl |    .281959   .1227432     2.30   0.024     .0383157    .5256024
     fertwdi |   .1237222   .0356386     3.47   0.001     .0529802    .1944642
       lpopd |  -.0905365   .0352805    -2.57   0.012    -.1605677   -.0205052
      urbwdi |  -.0040498   .0025393    -1.59   0.114    -.0090903    .0009908
    hlxpuwdi |  -.0540478   .0392157    -1.38   0.171    -.1318904    .0237948
       _cons |   7.943246   .7324697    10.84   0.000     6.489305    9.397187
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....
% of simulations completed: 11% 22% 33% 44% 55% 66% 77% 88% 100%


Simulating sigma-squared.  Please wait


Number of simulations  : 1000
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9 b10

. setx mean

. simqi, tfunc(exp) fd(ev) changex(hlxpuwdi 2.001905 4.0039)

First Difference: hlxpuwdi 2.001905 4.0039

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+-----------------------------------------------
         dE[exp(lu5mrcom)] |  -7.915216     5.692262    -19.15015    3.674431
```

Model 3-4: How much wld U5MR fall if pub hlth sp/GDP (WB-WDI, all cases) doubled?

```
. estsimp regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi,
>  r

Linear regression                                     Number of obs =     105
                                                      F(  8,    96) =  115.70
                                                      Prob > F      =  0.0000
                                                      R-squared     =  0.8515
                                                      Root MSE      =     .37

------------------------------------------------------------------------------
             |               Robust
    lu5mrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5451915   .0882932    -6.17   0.000    -.7204521   -.3699308
    giniavni |    .008237   .0067109     1.23   0.223     -.005084    .0215579
       ethnl |   .2759885   .1360848     2.03   0.045     .0058624    .5461147
        musl |    .281959   .1227432     2.30   0.024     .0383157    .5256024
     fertwdi |   .1237222   .0356386     3.47   0.001     .0529802    .1944642
       lpopd |  -.0905365   .0352805    -2.57   0.012    -.1605677   -.0205052
      urbwdi |  -.0040498   .0025393    -1.59   0.114    -.0090903    .0009908
    hlxpuwdi |  -.0540478   .0392157    -1.38   0.171    -.1318904    .0237948
       _cons |   7.943246   .7324697    10.84   0.000     6.489305    9.397187
```

```
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....
% of simulations completed: 11% 22% 33% 44% 55% 66% 77% 88% 100%


Simulating sigma-squared.  Please wait


Number of simulations  : 1000
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9 b10

. setx mean

. simqi, tfunc(exp) fd(ev) changex(hlxpuwdi 2.001905 4.0039)

First Difference: hlxpuwdi 2.001905 4.0039

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
         dE[exp(lu5mrcom)] |  -7.953675     5.479655    -18.54226     2.83057
```

Model 3-4: Robustness checks

Model 3-4: Robust Check 1.1: Change specification: Exclude fertility

```
. regress limrcom lgdph giniavni ethnl musl lpopd urbwdi hlxpuwdi, r

Linear regression                                      Number of obs =     105
                                                       F(  7,    97) =  112.04
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8397
                                                       Root MSE      =  .33478

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5906488   .0647242    -9.13   0.000    -.7191083   -.4621892
    giniavni |    .012297   .0061337     2.00   0.048     .0001232    .0244708
       ethnl |   .2649786   .1222582     2.17   0.033     .0223299    .5076272
        musl |   .4759711   .1012122     4.70   0.000     .2750929    .6768493
       lpopd |  -.0991292   .0304689    -3.25   0.002    -.1596016   -.0386568
      urbwdi |   -.004914   .0022614    -2.17   0.032    -.0094023   -.0004257
    hlxpuwdi |  -.0513818   .0368383    -1.39   0.166    -.1244956     .021732
       _cons |   8.415901   .5008221    16.80   0.000     7.421908    9.409895
------------------------------------------------------------------------------
```

Model 3-4: Robust Check 1.2: Change specification: Include mean years of female school

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi mysfx, r

Linear regression                                      Number of obs =     105
                                                       F(  9,    95) =   90.37
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8661
                                                       Root MSE      =  .30917

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
```

```
       lgdph |  -.4472139   .0721165    -6.20   0.000    -.5903832   -.3040445
    giniavni |    .010397   .0058568     1.78   0.079    -.0012302    .0220241
       ethnl |   .1302762   .1122391     1.16   0.249    -.0925465    .3530989
        musl |   .2082412   .1092602     1.91   0.060    -.0086678    .4251502
     fertwdi |   .0238056   .0323193     0.74   0.463    -.0403563    .0879674
       lpopd |  -.0938763   .0312416    -3.00   0.003    -.1558988   -.0318538
      urbwdi |  -.0030274   .0021331    -1.42   0.159    -.0072623    .0012074
    hlxpuwdi |  -.0290536   .0362119    -0.80   0.424    -.1009433     .042836
       mysfx |  -.0942261    .025728    -3.66   0.000    -.1453027   -.0431495
       _cons |    7.59765   .6174486    12.30   0.000      6.37186     8.82344
------------------------------------------------------------------------------
```

Model 3-4: Robust Check 1.3: Change specification: Include female literacy

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi litfewdi, r

Linear regression                                      Number of obs =     105
                                                       F(  9,    95) =   81.87
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8605
                                                       Root MSE      =   .3156

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4782027   .0688425    -6.95   0.000    -.6148724   -.3415331
    giniavni |   .0109639   .0059594     1.84   0.069     -.000867    .0227949
       ethnl |   .1121179   .1126109     1.00   0.322    -.1114431    .3356789
        musl |   .2228561   .1148618     1.94   0.055    -.0051733    .4508856
     fertwdi |   .0260984   .0351348     0.74   0.459    -.0436529    .0958498
       lpopd |  -.0952065     .03134    -3.04   0.003    -.1574244   -.0329887
      urbwdi |  -.0036371   .0021956    -1.66   0.101    -.0079958    .0007217
    hlxpuwdi |  -.0273401    .035557    -0.77   0.444    -.0979296    .0432494
    litfewdi |  -.0060674   .0019933    -3.04   0.003    -.0100246   -.0021102
       _cons |    7.82655   .6292807    12.44   0.000     6.577269     9.07583
------------------------------------------------------------------------------
```

Model 3-4: Robust Check 1.4: Change specification: Include geographical variables

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi airdist popcrgs latcapab,
r

Linear regression                                      Number of obs =     105
                                                       F( 11,    93) =   73.98
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8566
                                                       Root MSE      =  .32331

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5010163   .0723068    -6.93   0.000    -.6446032   -.3574294
    giniavni |   .0111009    .005595     1.98   0.050    -9.58e-06    .0222114
       ethnl |   .2502878   .1127087     2.22   0.029     .0264707    .4741049
        musl |   .2659807   .1240935     2.14   0.035     .0195556    .5124057
     fertwdi |   .0969619    .035402     2.74   0.007     .0266606    .1672632
       lpopd |  -.0686609    .029834    -2.30   0.024    -.1279052   -.0094166
      urbwdi |  -.0038822   .0021111    -1.84   0.069    -.0080745    .0003101
    hlxpuwdi |  -.0477894   .0320797    -1.49   0.140    -.1114934    .0159146
     airdist |  -7.17e-06   .0000178    -0.40   0.688    -.0000425    .0000282
```

```
     popcrgs |  -.0008345   .0011242    -0.74   0.460    -.0030669    .0013979
    latcapab |   .0065632   .0037689     1.74   0.085    -.0009211    .0140475
       _cons |   7.163925   .5980996    11.98   0.000     5.976218    8.351632
------------------------------------------------------------------------------
```

Model 3-4: Robust Check 1.5: Change specification: Include regional dummy variables

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi afri lati east sout, r

Linear regression                                      Number of obs =     105
                                                       F( 12,    92) =   79.78
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8519
                                                       Root MSE      =  .33037

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   -.532407   .0769271    -6.92   0.000    -.6851909   -.3796231
    giniavni |   .0113485   .0059535     1.91   0.060    -.0004756    .0231726
       ethnl |   .2197934   .1387156     1.58   0.117    -.0557078    .4952946
        musl |   .2497782   .0985795     2.53   0.013     .0539908    .4455657
     fertwdi |    .082363   .0374366     2.20   0.030     .0080106    .1567155
       lpopd |  -.0844158   .0331323    -2.55   0.012    -.1502193   -.0186122
      urbwdi |  -.0035302   .0024562    -1.44   0.154    -.0084084    .0013479
    hlxpuwdi |  -.0427196   .0390011    -1.10   0.276    -.1201792     .03474
        afri |  -.1549005    .102714    -1.51   0.135    -.3588993    .0490983
        lati |   -.140837   .1386438    -1.02   0.312    -.4161956    .1345216
        east |  -.1413734   .1526665    -0.93   0.357    -.4445823    .1618356
        sout |  -.0174005   .2025069    -0.09   0.932    -.4195968    .3847958
       _cons |   7.664287   .6378731    12.02   0.000     6.397416    8.931158
------------------------------------------------------------------------------
```

Model 3-4: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi gdphf giniavnf ethnlf, r

Linear regression                                      Number of obs =     105
                                                       F( 10,    93) =       .
                                                       Prob > F      =       .
                                                       R-squared     =  0.8565
                                                       Root MSE      =  .32343

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5021339   .0707883    -7.09   0.000    -.6427055   -.3615623
    giniavni |   .0069639   .0062111     1.12   0.265    -.0053701    .0192978
       ethnl |   .1776195   .1203664     1.48   0.143    -.0614044    .4166434
        musl |   .3280815   .1104467     2.97   0.004     .1087562    .5474069
     fertwdi |   .0992896   .0305273     3.25   0.002     .0386684    .1599109
       lpopd |  -.0814034   .0292156    -2.79   0.006    -.1394198   -.0233871
      urbwdi |  -.0031252   .0023757    -1.32   0.192    -.0078428    .0015925
    hlxpuwdi |  -.0307279   .0365966    -0.84   0.403    -.1034015    .0419456
       gdphf |  -.1854829    .116633    -1.59   0.115     -.417093    .0461271
    giniavnf |  -.0238637   .0752152    -0.32   0.752    -.1732262    .1254987
      ethnlf |  -.3029035   .1807132    -1.68   0.097    -.6617641    .0559571
       _cons |   7.405453   .5702537    12.99   0.000     6.273042    8.537864
------------------------------------------------------------------------------
```

Model 3-4: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi

   Huber iteration 1:  maximum difference in weights = .54392063
   Huber iteration 2:  maximum difference in weights = .12920531
   Huber iteration 3:  maximum difference in weights = .05836163
   Huber iteration 4:  maximum difference in weights = .01872747
Biweight iteration 5:  maximum difference in weights = .15756711
Biweight iteration 6:  maximum difference in weights = .02132824
Biweight iteration 7:  maximum difference in weights = .00371708

Robust regression                                       Number of obs =     105
                                                        F(  8,    96) =   65.37
                                                        Prob > F      =  0.0000

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5120904   .0746678    -6.86   0.000    -.6603049   -.3638759
    giniavni |   .0126709   .0043626     2.90   0.005     .0040112    .0213306
       ethnl |   .2166567   .1288097     1.68   0.096    -.0390286     .472342
        musl |   .3819359   .1101985     3.47   0.001     .1631935    .6006783
     fertwdi |   .0849046   .0333811     2.54   0.013     .0186435    .1511656
       lpopd |  -.0632593   .0258619    -2.45   0.016    -.1145948   -.0119239
      urbwdi |  -.0040927   .0025264    -1.62   0.109    -.0091076    .0009222
    hlxpuwdi |  -.0630022   .0287615    -2.19   0.031    -.1200932   -.0059112
       _cons |   7.279256   .6012653    12.11   0.000     6.085754    8.472758
------------------------------------------------------------------------------
```

Model 3-4: Robust Check 3.2: Outlier checks: Median regression

```
. qreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi
Iteration  1:  WLS sum of weighted deviations =  26.364801

Iteration  1: sum of abs. weighted deviations =   26.57079
Iteration  2: sum of abs. weighted deviations =  26.336592
Iteration  3: sum of abs. weighted deviations =  26.090098
Iteration  4: sum of abs. weighted deviations =  26.063192
Iteration  5: sum of abs. weighted deviations =  25.959456
Iteration  6: sum of abs. weighted deviations =  25.942497
Iteration  7: sum of abs. weighted deviations =  25.931303
Iteration  8: sum of abs. weighted deviations =  25.925771
Iteration  9: sum of abs. weighted deviations =   25.92577

Median regression                                   Number of obs =       105
  Raw sum of deviations 68.21916 (about 4.1271343)
  Min sum of deviations 25.92577                    Pseudo R2     =    0.6200

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4467158   .0878243    -5.09   0.000    -.6210456   -.2723861
    giniavni |   .0083209   .0051968     1.60   0.113    -.0019947    .0186365
       ethnl |   .1852776   .1461178     1.27   0.208    -.1047639    .4753191
        musl |   .2358701   .1331884     1.77   0.080    -.0285067     .500247
     fertwdi |   .1011778    .040082     2.52   0.013     .0216156      .18074
       lpopd |  -.0731796   .0301339    -2.43   0.017     -.132995   -.0133642
      urbwdi |  -.0056295   .0029638    -1.90   0.061    -.0115126    .0002536
    hlxpuwdi |  -.0334528   .0314772    -1.06   0.291    -.0959346     .029029
       _cons |   6.998128   .7206581     9.71   0.000     5.567633    8.428623
------------------------------------------------------------------------------
```

Model 3-4: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd
(Same as Model 3-5)

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi if ctry ~= "Mongolia" &
ctry ~= "Cuba", r

Linear regression                                       Number of obs =     103
                                                        F(  8,    94) =   95.22
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8665
                                                        Root MSE      =   .3033

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5384846   .0689592    -7.81   0.000    -.6754047   -.4015644
    giniavni |   .0126649   .0049759     2.55   0.013     .0027851    .0225447
       ethnl |   .2279729   .1154207     1.98   0.051    -.0011977    .4571435
        musl |   .3997838   .0966982     4.13   0.000     .2077873    .5917803
     fertwdi |   .0779697   .0296297     2.63   0.010     .0191393    .1368001
       lpopd |  -.0578396   .0250929    -2.31   0.023    -.1076622    -.008017
      urbwdi |  -.0033461   .0020988    -1.59   0.114    -.0075133     .000821
    hlxpuwdi |   -.063887   .0267557    -2.39   0.019    -.1170111   -.0107629
       _cons |   7.455071   .5499523    13.56   0.000     6.363128    8.547014
------------------------------------------------------------------------------
```

Model 3-4: Robust Ck 4.1: Endog ck: Corr cand. inst (hlxwdns) & hyp endg reg (hlxpuwdi)

```
. correlate hlxpuwdi hlxwdns
(obs=104)

             | hlxpuwdi  hlxwdns
-------------+------------------
    hlxpuwdi |   1.0000
     hlxwdns |   0.4546   1.0000
```

Model 3-4: Robust Ck 4.2: Endog ck: Does CI predict HER in presence of exog regressors?

```
. ivreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi (hlxpuwdi = hlxwdns), first

First-stage regressions
-----------------------

      Source |       SS       df       MS              Number of obs =     104
-------------+------------------------------           F(  8,    95) =    5.70
       Model |  54.8267397     8  6.85334247           Prob > F      =  0.0000
    Residual |   114.28316    95  1.20298063           R-squared     =  0.3242
-------------+------------------------------           Adj R-squared =  0.2673
       Total |  169.109899   103  1.64184368           Root MSE      =  1.0968

------------------------------------------------------------------------------
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.0824384   .2457437    -0.34   0.738    -.5703013    .4054244
    giniavni |  -.0072419    .014765    -0.49   0.625    -.0365542    .0220704
       ethnl |  -.1170782   .4387543    -0.27   0.790    -.9881156    .7539593
        musl |  -.4269458   .3660137    -1.17   0.246    -1.153575    .2996832
     fertwdi |  -.1058152   .1091894    -0.97   0.335    -.3225835    .1109531
```

```
       lpopd |  -.2121211   .0824446    -2.57   0.012    -.3757944   -.0484477
      urbwdi |   .0139966   .0083172     1.68   0.096    -.0025151    .0305083
     hlxwdns |    .388364   .0947253     4.10   0.000     .2003106    .5764175
       _cons |   2.905617   1.960374     1.48   0.142    -.9862171    6.797451
------------------------------------------------------------------------------
```

Model 3-4: Robust Check 4.3: Endog ck: 2SLS using hlxwdns as instrument for hlxpuwdi

```
Instrumental variables (2SLS) regression

      Source |       SS       df       MS              Number of obs =     104
-------------+------------------------------           F(  8,    95) =   63.24
       Model |  54.6983683     8  6.83729603           Prob > F      =  0.0000
    Residual |  10.2579979    95  .107978925           R-squared     =  0.8421
-------------+------------------------------           Adj R-squared =  0.8288
       Total |  64.9563661   103  .630644331           Root MSE      =   .3286

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
    hlxpuwdi |  -.0687767   .0730747    -0.94   0.349    -.2138483     .076295
       lgdph |  -.5222601   .0743113    -7.03   0.000    -.6697866   -.3747335
    giniavni |   .0099318   .0043518     2.28   0.025     .0012924    .0185712
       ethnl |   .1884377   .1341791     1.40   0.163    -.0779415    .4548169
        musl |   .3368178   .1102663     3.05   0.003     .1179114    .5557241
     fertwdi |   .0793049   .0340745     2.33   0.022     .0116585    .1469513
       lpopd |  -.0868342   .0300692    -2.89   0.005    -.1465292   -.0271392
      urbwdi |  -.0033206   .0027661    -1.20   0.233     -.008812    .0021707
       _cons |   7.598404    .652987    11.64   0.000     6.302061    8.894747
------------------------------------------------------------------------------
Instrumented:  hlxpuwdi
Instruments:   lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxwdns
------------------------------------------------------------------------------
```

Model 3-4: Robust Check 4.4: Endog ck: Hausman test for diff btw coeff of OLS & of 2SLS

```
. estimates store imrhlx

. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi

      Source |       SS       df       MS              Number of obs =     105
-------------+------------------------------           F(  8,    96) =   67.86
       Model |   57.624489     8  7.20306112           Prob > F      =  0.0000
    Residual |  10.1900302    96  .106146147           R-squared     =  0.8497
-------------+------------------------------           Adj R-squared =  0.8372
       Total |  67.8145191   104  .652062684           Root MSE      =   .3258

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5173432   .0728934    -7.10   0.000    -.6620354   -.3726511
    giniavni |   .0100715   .0042589     2.36   0.020     .0016176    .0185254
       ethnl |   .2011566   .1257486     1.60   0.113    -.0484524    .4507655
        musl |   .3473362   .1075797     3.23   0.002     .1337923    .5608802
     fertwdi |   .0825682   .0325878     2.53   0.013     .0178818    .1472545
       lpopd |  -.0816206   .0252473    -3.23   0.002    -.1317361   -.0315052
      urbwdi |  -.0039242   .0024664    -1.59   0.115    -.0088199    .0009715
    hlxpuwdi |  -.0431812   .0280779    -1.54   0.127    -.0989155     .012553
       _cons |   7.486696   .5869761    12.75   0.000     6.321557    8.651834
------------------------------------------------------------------------------

. hausman imrhlx
```

```
                ---- Coefficients ----
             |      (b)          (B)            (b-B)     sqrt(diag(V_b-V_B))
             |     imrhlx         .          Difference          S.E.
-------------+------------------------------------------------------------------
    hlxpuwdi |   -.0687767    -.0431812       -.0255954        .0674651
       lgdph |   -.5222601    -.5173432       -.0049168        .0144474
    giniavni |    .0099318     .0100715       -.0001397        .0008943
       ethnl |    .1884377     .2011566       -.0127189        .0468116
        musl |    .3368178     .3473362       -.0105185        .0241927
     fertwdi |    .0793049     .0825682       -.0032633        .0099551
       lpopd |   -.0868342    -.0816206       -.0052136         .016332
      urbwdi |   -.0033206    -.0039242        .0006036        .0012523
------------------------------------------------------------------------------
                           b = consistent under Ho and Ha; obtained from ivreg
         B = inconsistent under Ha, efficient under Ho; obtained from regress

    Test:  Ho:  difference in coefficients not systematic

                 chi2(8) = (b-B)'[(V_b-V_B)^(-1)](b-B)
                         =        0.28
               Prob>chi2 =      1.0000
```

Model 3-4: Robust Check 5.1: DepV: change IMR to U5MR (limrcom to lu5mrcom)

```
. regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi, r

Linear regression                                      Number of obs =     105
                                                       F(  8,    96) =  115.70
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8515
                                                       Root MSE      =     .37

------------------------------------------------------------------------------
             |               Robust
    lu5mrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5451915   .0882932    -6.17   0.000    -.7204521   -.3699308
    giniavni |    .008237   .0067109     1.23   0.223     -.005084    .0215579
       ethnl |   .2759885   .1360848     2.03   0.045     .0058624    .5461147
        musl |    .281959   .1227432     2.30   0.024     .0383157    .5256024
     fertwdi |   .1237222   .0356386     3.47   0.001     .0529802    .1944642
       lpopd |  -.0905365   .0352805    -2.57   0.012    -.1605677   -.0205052
      urbwdi |  -.0040498   .0025393    -1.59   0.114    -.0090903    .0009908
    hlxpuwdi |  -.0540478   .0392157    -1.38   0.171    -.1318904    .0237948
       _cons |   7.943246   .7324697    10.84   0.000     6.489305    9.397187
------------------------------------------------------------------------------
```

Model 3-4: Robust Ck 5.2: DepV: Vary source: infant mortality (limrcom to limrwdi)

```
. regress limrwdi lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi, r

Linear regression                                      Number of obs =     105
                                                       F(  8,    96) =  105.55
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8676
                                                       Root MSE      =  .30369

------------------------------------------------------------------------------
             |               Robust
     limrwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5135256   .0677856    -7.58   0.000    -.6480789   -.3789724
```

```
    giniavni |   .0115013    .005359     2.15   0.034     .0008637    .0221389
       ethnl |   .1383647   .1074405     1.29   0.201     -.074903    .3516324
        musl |   .2789689   .1023179     2.73   0.008     .0758695    .4820683
     fertwdi |   .1026745   .0293332     3.50   0.001     .0444486    .1609003
       lpopd |   -.060503   .0247856    -2.44   0.016    -.1097021    -.011304
      urbwdi |  -.0037204    .002153    -1.73   0.087     -.007994    .0005533
    hlxpuwdi |  -.0497747   .0309034    -1.61   0.111    -.1111175    .0115681
       _cons |   7.273784   .5618135    12.95   0.000     6.158593    8.388975
------------------------------------------------------------------------------
```

Model 3-4: Robust Ck 6.1: IndV: Vary source: WDI to HNP pub sp (hlxpuwdi to hlxpuwb) (Same as Model 3-6)

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb, r

Linear regression                                      Number of obs =     105
                                                       F(  8,    96) =  102.08
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8487
                                                       Root MSE      =   .3269

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5095302   .0735944    -6.92   0.000     -.655614   -.3634465
    giniavni |   .0098831   .0058717     1.68   0.096    -.0017721    .0215384
       ethnl |   .1988513   .1200938     1.66   0.101    -.0395331    .4372356
        musl |   .3453122   .1081834     3.19   0.002     .1305697    .5600546
     fertwdi |   .0899283   .0315137     2.85   0.005     .0273741    .1524825
       lpopd |  -.0768825   .0315683    -2.44   0.017     -.139545   -.0142199
      urbwdi |  -.0042461   .0021909    -1.94   0.056     -.008595    .0001028
     hlxpuwb |  -.0298866   .0246331    -1.21   0.228    -.0787829    .0190097
       _cons |   7.378843   .6351789    11.62   0.000     6.118023    8.639663
------------------------------------------------------------------------------
```

Model 3-4: Robust Ck 6.2: IndV: Transform: WDI to ln WDI pub sp (hlxpuwdi to lhlxpuwd)

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi lhlxpuwd, r

Linear regression                                      Number of obs =     104
                                                       F(  8,    95) =   97.64
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8494
                                                       Root MSE      =  .32684

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5231553   .0725644    -7.21   0.000    -.6672139   -.3790967
    giniavni |   .0107891   .0060961     1.77   0.080    -.0013133    .0228914
       ethnl |   .2290743   .1208385     1.90   0.061    -.0108204     .468969
        musl |    .362507    .113508     3.19   0.002      .137165    .5878489
     fertwdi |   .0807494   .0303205     2.66   0.009     .0205557    .1409431
       lpopd |  -.0777868   .0325352    -2.39   0.019    -.1423773   -.0131963
      urbwdi |   -.003633   .0022254    -1.63   0.106     -.008051     .000785
    lhlxpuwd |  -.0872663   .0650299    -1.34   0.183     -.216367    .0418344
       _cons |    7.42436   .6294999    11.79   0.000     6.174645    8.674076
------------------------------------------------------------------------------
```

Model 3-4: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)

```
. regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi, r

Linear regression                                       Number of obs =     104
                                                        F(  8,    95) =   95.92
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8575
                                                        Root MSE      =  .31879

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |  -.5226373   .0738381    -7.08   0.000    -.6692246   -.3760501
    giniavni |   .0105105   .0048741     2.16   0.034     .0008342    .0201869
       ethnl |   .1838763   .1143675     1.61   0.111     -.043172    .4109245
        musl |   .2607845   .1031681     2.53   0.013     .0559699    .4655991
     fertwdi |   .0657367   .0342602     1.92   0.058    -.0022784    .1337518
       lpopd |   -.090796   .0261335    -3.47   0.001    -.1426776   -.0389144
      urbwdi |  -.0051302   .0019804    -2.59   0.011    -.0090618   -.0011985
    hlxpuwdi |  -.0456305   .0298743    -1.53   0.130    -.1049385    .0136775
       _cons |   7.723261    .642108    12.03   0.000     6.448516    8.998007
```

Model 3-4: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

```
. regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi gdpmf, r

Linear regression                                       Number of obs =     104
                                                        F(  9,    94) =   87.18
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8575
                                                        Root MSE      =  .32045

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |  -.5211873   .0749925    -6.95   0.000    -.6700866    -.372288
    giniavni |   .0104339   .0050277     2.08   0.041     .0004512    .0204166
       ethnl |   .1868745   .1161389     1.61   0.111    -.0437221    .4174711
        musl |   .2601403   .1041076     2.50   0.014     .0534322    .4668483
     fertwdi |    .065018   .0352152     1.85   0.068    -.0049026    .1349385
       lpopd |  -.0913323   .0271049    -3.37   0.001    -.1451498   -.0375149
      urbwdi |  -.0051822   .0020298    -2.55   0.012    -.0092124    -.001152
    hlxpuwdi |  -.0453969   .0302643    -1.50   0.137    -.1054873    .0146935
       gdpmf |  -.0225548   .1352043    -0.17   0.868    -.2910061    .2458966
       _cons |   7.722675   .6460014    11.95   0.000     6.440024    9.005326
------------------------------------------------------------------------------
```

Model 3-4: Robust Check 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)

```
. regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi hlxpuwdi, r

Linear regression                                       Number of obs =     105
                                                        F(  8,    96) =  106.46
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8492
                                                        Root MSE      =  .32644

------------------------------------------------------------------------------
```

```
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5029083   .0775962    -6.48   0.000    -.6569356   -.3488809
    giniavni |   .0106606   .0059187     1.80   0.075    -.0010878    .0224091
    ethnannx |   .2236831   .1558236     1.44   0.154    -.0856243    .5329905
        musl |   .3408666   .1095443     3.11   0.002     .1234229    .5583102
     fertwdi |   .0899297   .0309546     2.91   0.005     .0284853    .1513742
       lpopd |  -.0771186   .0304853    -2.53   0.013    -.1376314   -.0166058
      urbwdi |   -.004479   .0022913    -1.95   0.054    -.0090271    .0000691
    hlxpuwdi |  -.0427871   .0360009    -1.19   0.238    -.1142484    .0286741
       _cons |   7.276434   .6666861    10.91   0.000     5.953073    8.599796
------------------------------------------------------------------------------
```

Model 3-4: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

```
. regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi hlxpuwdi ethnannf, r

Linear regression                                      Number of obs =     105
                                                       F(  9,    95) =   91.17
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8504
                                                       Root MSE      =  .32679

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5268767   .0854987    -6.16   0.000     -.696613   -.3571403
    giniavni |   .0096895   .0060648     1.60   0.113    -.0023507    .0217297
    ethnannx |   .2084628   .1580092     1.32   0.190    -.1052251    .5221507
        musl |   .3414022   .1105154     3.09   0.003     .1220014    .5608029
     fertwdi |    .085278   .0308692     2.76   0.007     .0239949    .1465612
       lpopd |  -.0784696   .0308573    -2.54   0.013    -.1397291   -.0172101
      urbwdi |  -.0037181   .0025203    -1.48   0.143    -.0087215    .0012853
    hlxpuwdi |  -.0450913   .0352387    -1.28   0.204     -.115049    .0248663
    ethnannf |  -.1220846   .1566328    -0.78   0.438      -.43304    .1888708
       _cons |   7.517591   .7404932    10.15   0.000     6.047526    8.987656
------------------------------------------------------------------------------
```

Table 2.3, Model 3-5: Public Health Spending/GDP (WB-WDI, -2 outl.) and IMR

Excludes the two cases with the highest score on the Cook's-D test.

Model 3-5: IMR predicted by 7 baseline var. and pub health sp/GDP (WB-WDI, - 2 outl.)

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi if ctry ~= "Mongolia" &
ctry ~= "Cuba", r

Linear regression                                      Number of obs =     103
                                                       F(  8,    94) =   95.22
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8665
                                                       Root MSE      =   .3033

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5384846   .0689592    -7.81   0.000    -.6754047   -.4015644
    giniavni |   .0126649   .0049759     2.55   0.013     .0027851    .0225447
```

```
       ethnl |   .2279729   .1154207     1.98   0.051    -.0011977    .4571435
        musl |   .3997838   .0966982     4.13   0.000     .2077873    .5917803
     fertwdi |   .0779697   .0296297     2.63   0.010     .0191393    .1368001
       lpopd |  -.0578396   .0250929    -2.31   0.023    -.1076622    -.008017
      urbwdi |  -.0033461   .0020988    -1.59   0.114    -.0075133     .000821
    hlxpuwdi |   -.063887   .0267557    -2.39   0.019    -.1170111   -.0107629
       _cons |   7.455071   .5499523    13.56   0.000     6.363128    8.547014
------------------------------------------------------------------------------
```

Model 3-5: Means and SDs of pub health sp/GDP (WB-WDI, all cases) and IMR

```
. summarize imrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
      imrcom |       105    70.13333    45.54712          6        202

. summarize limrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     limrcom |       105    3.985123     .807504   1.791759   5.308268

. summarize u5mrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     u5mrcom |       105    104.2857    77.10965          7        323

. summarize lu5mrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    lu5mrcom |       105    4.303227    .9223653    1.94591   5.777652

. summarize hlxpuwdi

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    hlxpuwdi |       105    2.001905    1.275206          0          7
```

Model 3-5: How much would IMR fall if pub hlth sp/GDP (WB-WDI, -2 outl.) rose 1 SD?

```
. estsimp regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi if ctry ~=
"Mongolia" & ctry ~= "Cuba", r

Linear regression                               Number of obs =     103
                                                F(  8,    94) =   95.22
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8665
                                                Root MSE      =   .3033

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5384846   .0689592    -7.81   0.000    -.6754047   -.4015644
    giniavni |   .0126649   .0049759     2.55   0.013     .0027851    .0225447
       ethnl |   .2279729   .1154207     1.98   0.051    -.0011977    .4571435
        musl |   .3997838   .0966982     4.13   0.000     .2077873    .5917803
     fertwdi |   .0779697   .0296297     2.63   0.010     .0191393    .1368001
       lpopd |  -.0578396   .0250929    -2.31   0.023    -.1076622    -.008017
```

```
      urbwdi |  -.0033461   .0020988    -1.59   0.114    -.0075133     .000821
    hlxpuwdi |   -.063887   .0267557    -2.39   0.019    -.1170111   -.0107629
       _cons |   7.455071   .5499523    13.56   0.000     6.363128    8.547014
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....
% of simulations completed: 11% 22% 33% 44% 55% 66% 77% 88% 100%


Simulating sigma-squared.  Please wait


Number of simulations  : 1000
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9 b10

. setx mean

. simqi, tfunc(exp) fd(ev) changex(hlxpuwdi 2.001905 3.277111)

First Difference: hlxpuwdi 2.001905 3.277111

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
          dE[exp(limrcom)] |  -4.446477      1.93157    -8.101107   -.6561165
```

Model 3-5: How much would U5MR fall if pub hlth sp/GDP (WB-WDI, -2 outl.) doubled?

```
. estsimp regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi
>  if ctry ~= "Mongolia" & ctry ~= "Cuba", r

Linear regression                                      Number of obs =     103
                                                       F(  8,    94) =  114.90
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8668
                                                       Root MSE      =  .34619

------------------------------------------------------------------------------
             |               Robust
    lu5mrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5695636   .0846593    -6.73   0.000    -.7376567   -.4014705
    giniavni |   .0109413   .0056738     1.93   0.057    -.0003242    .0222067
       ethnl |   .3051037   .1329271     2.30   0.024     .0411738    .5690335
        musl |   .3381948   .1087472     3.11   0.002     .1222747    .5541148
     fertwdi |   .1183328   .0347655     3.40   0.001     .0493051    .1873606
       lpopd |  -.0647831    .029635    -2.19   0.031    -.1236241   -.0059421
      urbwdi |  -.0033829   .0024635    -1.37   0.173    -.0082742    .0015084
    hlxpuwdi |  -.0759792   .0291054    -2.61   0.011    -.1337686   -.0181899
       _cons |   7.924408   .6759809    11.72   0.000     6.582232    9.266584
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....
% of simulations completed: 11% 22% 33% 44% 55% 66% 77% 88% 100%


Simulating sigma-squared.  Please wait


Number of simulations  : 1000
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9 b10

. setx mean
```

```
. simqi, tfunc(exp) fd(ev) changex(hlxpuwdi 2.001905 4.0039)

First Difference: hlxpuwdi 2.001905 4.0039

      Quantity of Interest |      Mean       Std. Err.     [95% Conf. Interval]
---------------------------+--------------------------------------------------
         dE[exp(lu5mrcom)] |  -11.01149     4.076277    -18.14521   -2.709911
```

Model 3-5: Robustness checks

Model 3-5: Robust Check 1.1: Change specification: Exclude fertility

```
. regress limrcom lgdph giniavni ethnl musl lpopd urbwdi hlxpuwdi if ctry ~= "Mongolia" & ctry ~=
"Cuba", r

Linear regression                                      Number of obs =     103
                                                       F(  7,    95) =  105.17
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8573
                                                       Root MSE      =  .31199

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   -.610283   .0617335    -9.89   0.000    -.7328395   -.4877266
    giniavni |   .0143598   .0051047     2.81   0.006     .0042257    .0244938
       ethnl |   .2867882   .1201561     2.39   0.019     .0482482    .5253282
        musl |   .5163722   .0867691     5.95   0.000     .3441139    .6886306
       lpopd |  -.0749484   .0245625    -3.05   0.003    -.1237111   -.0261856
      urbwdi |  -.0041726   .0021308    -1.96   0.053    -.0084028    .0000576
    hlxpuwdi |  -.0694594   .0284567    -2.44   0.017    -.1259531   -.0129657
       _cons |   8.365744   .4352521    19.22   0.000     7.501659    9.229828
------------------------------------------------------------------------------
```

Model 3-5: Robust Check 1.2: Change specification: Include mean years of female school

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi mysfx if ctry ~=
"Mongolia" & ctry ~= "Cuba", r

Linear regression                                      Number of obs =     103
                                                       F(  9,    93) =   90.72
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8867
                                                       Root MSE      =  .28099

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4629839   .0685008    -6.76   0.000    -.5990129    -.326955
    giniavni |   .0132739   .0044841     2.96   0.004     .0043694    .0221783
       ethnl |   .1528887   .1083446     1.41   0.162    -.0622621    .3680396
        musl |   .2528326   .0983964     2.57   0.012     .0574369    .4482283
     fertwdi |   .0139716   .0310822     0.45   0.654    -.0477514    .0756946
       lpopd |  -.0693727   .0253575    -2.74   0.007    -.1197276   -.0190178
      urbwdi |  -.0023511   .0020647    -1.14   0.258    -.0064511    .0017489
    hlxpuwdi |  -.0503694    .025112    -2.01   0.048    -.1002368   -.0005019
       mysfx |  -.1024428   .0247836    -4.13   0.000    -.1516582   -.0532274
       _cons |    7.56447   .5582621    13.55   0.000     6.455872    8.673068
------------------------------------------------------------------------------
```

Model 3-5: Robust Check 1.3: Change specification: Include female literacy

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi litfewdi if ctry ~=
"Mongolia" & ctry ~= "Cuba", r

Linear regression                                       Number of obs =     103
                                                        F(  9,    93) =   78.63
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8795
                                                        Root MSE      =  .28975

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   -.497178   .0645669    -7.70   0.000    -.6253951   -.3689609
    giniavni |   .0137195   .0047182     2.91   0.005     .0043501    .023089
       ethnl |   .1332084   .1088003     1.22   0.224    -.0828474    .3492641
        musl |    .267846    .104664     2.56   0.012     .0600041    .4756879
     fertwdi |   .0170713   .0341401     0.50   0.618    -.0507241    .0848668
       lpopd |  -.0715747    .026046    -2.75   0.007    -.1232968   -.0198526
      urbwdi |  -.0030159   .0021232    -1.42   0.159    -.0072321    .0012003
    hlxpuwdi |  -.0476111   .0248714    -1.91   0.059    -.0970009    .0017786
    litfewdi |  -.0065248    .001932    -3.38   0.001    -.0103614   -.0026883
       _cons |   7.819456   .5681627    13.76   0.000     6.691198    8.947715
------------------------------------------------------------------------------
```

Model 3-5: Robust Check 1.4: Change specification: Include geographical variables

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi airdist popcrgs latcapab
if ctry ~= "Mongolia" & ctry ~= "Cuba", r

Linear regression                                       Number of obs =     103
                                                        F( 11,    91) =   72.99
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8687
                                                        Root MSE      =  .30569

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5324237    .069289    -7.68   0.000    -.6700578   -.3947896
    giniavni |   .0127746   .0050322     2.54   0.013     .0027787    .0227706
       ethnl |   .2497135   .1130908     2.21   0.030     .0250725    .4743545
        musl |   .3514888    .105576     3.33   0.001     .1417751    .5612025
     fertwdi |   .0858283   .0344283     2.49   0.014     .0174408    .1542158
       lpopd |  -.0522774   .0280321    -1.86   0.065    -.1079597     .003405
      urbwdi |  -.0032259   .0020505    -1.57   0.119    -.0072989    .0008471
    hlxpuwdi |  -.0642739   .0266892    -2.41   0.018    -.1172888    -.011259
     airdist |  -1.40e-08   .0000173    -0.00   0.999    -.0000344    .0000343
     popcrgs |  -.0004282   .0011047    -0.39   0.699    -.0026226    .0017661
    latcapab |   .0038036   .0033562     1.13   0.260     -.002863    .0104703
       _cons |   7.296053    .576966    12.65   0.000     6.149981    8.442125
------------------------------------------------------------------------------
```

Model 3-5: Robust Check 1.5: Change specification: Include regional dummy variables

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi afri lati east sout if
ctry ~= "Mongolia" & ctry ~= "Cuba", r

Linear regression                                       Number of obs =     103
```

```
                                                F( 12,    90) =   84.41
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8726
                                                Root MSE      =  .30285

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5192479    .070748    -7.34   0.000    -.6598012   -.3786946
    giniavni |   .0116881   .0053449     2.19   0.031     .0010695    .0223067
       ethnl |   .3099304   .1227086     2.53   0.013     .0661484    .5537124
        musl |   .3027291   .0990738     3.06   0.003     .1059017    .4995566
     fertwdi |   .0685007   .0354012     1.93   0.056    -.0018299    .1388313
       lpopd |  -.0529701   .0250551    -2.11   0.037    -.1027464   -.0031939
      urbwdi |  -.0045772   .0022276    -2.05   0.043    -.0090027   -.0001516
    hlxpuwdi |  -.0747869   .0289261    -2.59   0.011    -.1322536   -.0173202
        afri |  -.1611323   .1012308    -1.59   0.115    -.3622449    .0399803
        lati |  -.0772862   .1333696    -0.58   0.564    -.3422481    .1876757
        east |  -.2834379   .1198294    -2.37   0.020    -.5214999   -.0453759
        sout |  -.1180054   .1796934    -0.66   0.513    -.4749976    .2389868
       _cons |   7.572295   .5688262    13.31   0.000     6.442223    8.702368
------------------------------------------------------------------------------
```

Model 3-5: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi gdphf giniavnf ethnlf if
ctry ~= "Mongolia" & ctry ~= "Cuba", r

Linear regression                               Number of obs =     103
                                                F( 10,    91) =       .
                                                Prob > F      =       .
                                                R-squared     =  0.8682
                                                Root MSE      =  .30635

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5283233   .0689439    -7.66   0.000    -.6652718   -.3913748
    giniavni |   .0111908   .0052958     2.11   0.037     .0006714    .0217102
       ethnl |   .2178677   .1157797     1.88   0.063    -.0121145      .44785
        musl |   .3865881   .0987011     3.92   0.000     .1905304    .5826458
     fertwdi |   .0855609    .029796     2.87   0.005     .0263748    .1447469
       lpopd |  -.0580615   .0252806    -2.30   0.024    -.1082783   -.0078448
      urbwdi |  -.0030374   .0023117    -1.31   0.192    -.0076293    .0015545
    hlxpuwdi |  -.0579435   .0277745    -2.09   0.040    -.1131141   -.0027729
       gdphf |  -.1880996   .1180667    -1.59   0.115    -.4226247    .0464255
    giniavnf |   .0020212   .0713492     0.03   0.977    -.1397052    .1437475
      ethnlf |  -.1489925   .1793344    -0.83   0.408    -.5052182    .2072333
       _cons |   7.397998   .5503652    13.44   0.000     6.304765    8.491231
------------------------------------------------------------------------------
```

Model 3-5: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi if ctry ~= "Mongolia" & ctry
~= "Cuba"

   Huber iteration 1:  maximum difference in weights = .28327073
   Huber iteration 2:  maximum difference in weights = .03590453
Biweight iteration 3:  maximum difference in weights = .15964811
Biweight iteration 4:  maximum difference in weights = .00725239
```

```
Robust regression                                       Number of obs =     103
                                                        F(  8,    94) =   65.87
                                                        Prob > F      =  0.0000

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5311567   .0741539    -7.16   0.000    -.6783909   -.3839225
    giniavni |   .0123652   .0046518     2.66   0.009     .0031291    .0216014
       ethnl |   .2221185    .126253     1.76   0.082    -.0285597    .4727967
        musl |    .389418   .1100773     3.54   0.001     .1708569    .6079791
     fertwdi |   .0799614   .0328528     2.43   0.017     .0147313    .1451914
       lpopd |    -.05625   .0265703    -2.12   0.037    -.1090061    -.003494
      urbwdi |  -.0036255   .0024964    -1.45   0.150    -.0085822    .0013312
    hlxpuwdi |  -.0641482   .0303426    -2.11   0.037    -.1243941   -.0039024
       _cons |   7.414149   .6142513    12.07   0.000     6.194538    8.633759
------------------------------------------------------------------------------
```

Model 3-5: Robust Check 3.2: Outlier checks: Median regression

```
. qreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi if ctry ~= "Mongolia" & ctry
~= "Cuba"
Iteration  1:  WLS sum of weighted deviations =  24.825531

Iteration  1: sum of abs. weighted deviations =  24.680866
Iteration  2: sum of abs. weighted deviations =  24.601008
Iteration  3: sum of abs. weighted deviations =  24.428452
Iteration  4: sum of abs. weighted deviations =   24.38628
Iteration  5: sum of abs. weighted deviations =  24.366995
Iteration  6: sum of abs. weighted deviations =  24.350417
Iteration  7: sum of abs. weighted deviations =  24.336912
Iteration  8: sum of abs. weighted deviations =  24.336378

Median regression                                   Number of obs =       103
  Raw sum of deviations 65.92571 (about 4.1271343)
  Min sum of deviations 24.33638                    Pseudo R2     =    0.6309

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4567688   .1106837    -4.13   0.000    -.6765339   -.2370037
    giniavni |   .0080773   .0071584     1.13   0.262     -.006136    .0222905
       ethnl |   .1906535   .1837601     1.04   0.302    -.1742066    .5555136
        musl |   .3309283   .1635948     2.02   0.046     .0061071    .6557496
     fertwdi |   .1028371   .0478605     2.15   0.034     .0078088    .1978653
       lpopd |  -.0676084    .041178    -1.64   0.104    -.1493682    .0141514
      urbwdi |   -.004977   .0037825    -1.32   0.191    -.0124873    .0025333
    hlxpuwdi |  -.0339358   .0416543    -0.81   0.417    -.1166414    .0487698
       _cons |   7.026201   .9314611     7.54   0.000     5.176763    8.875638
------------------------------------------------------------------------------
```

Model 3-5: Robust Ck 4.1: Endog ck: Corr cand. inst (hlxwdns) & hyp endg reg (hlxpuwdi)

```
. correlate hlxpuwdi hlxwdns
(obs=104)

             | hlxpuwdi  hlxwdns
-------------+------------------
    hlxpuwdi |   1.0000
     hlxwdns |   0.4546   1.0000
```

Model 3-5: Robust Ck 4.2: Endog ck: Does CI predict HER in presence of exog regressors?

```
. ivreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi (hlxpuwdi = hlxwdns) if ctry ~=
"Mongolia" & ctry ~= "Cuba", first

First-stage regressions
-----------------------

      Source |       SS       df       MS              Number of obs =     102
-------------+------------------------------           F(  8,    93) =    5.93
       Model |  47.2430199     8  5.90537749           Prob > F      =  0.0000
    Residual |  92.6845239    93  .996607784           R-squared     =  0.3376
-------------+------------------------------           Adj R-squared =  0.2806
       Total |  139.927544   101  1.38542123           Root MSE      =   .9983

------------------------------------------------------------------------------
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .0552358   .2279231     0.24   0.809    -.3973742    .5078458
    giniavni |   .0164781   .0143846     1.15   0.255    -.0120868     .045043
       ethnl |   .1079186   .4024081     0.27   0.789    -.6911842    .9070214
        musl |  -.0988818   .3407363    -0.29   0.772    -.7755166     .577753
     fertwdi |  -.0493725   .1004572    -0.49   0.624    -.2488605    .1501155
       lpopd |  -.0777862   .0810376    -0.96   0.340    -.2387108    .0831385
      urbwdi |   .0078536   .0077436     1.01   0.313    -.0075237    .0232309
     hlxwdns |    .415177   .0864526     4.80   0.000     .2434992    .5868548
       _cons |   .0266105    1.90282     0.01   0.989    -3.752012    3.805233
------------------------------------------------------------------------------
```

Model 3-5: Robust Check 4.3: Endog ck: 2SLS using hlxwdns as instrument for hlxpuwdi

```
Instrumental variables (2SLS) regression

      Source |       SS       df       MS              Number of obs =     102
-------------+------------------------------           F(  8,    93) =   71.32
       Model |  53.2768115     8  6.65960144           Prob > F      =  0.0000
    Residual |  8.62430148    93  .092734425           R-squared     =  0.8607
-------------+------------------------------           Adj R-squared =  0.8487
       Total |   61.901113   101  .612882307           Root MSE      =  .30452

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
    hlxpuwdi |  -.0675436    .063519    -1.06   0.290    -.1936796    .0585925
       lgdph |  -.5403779   .0693154    -7.80   0.000    -.6780246   -.4027313
    giniavni |   .0123871   .0046673     2.65   0.009     .0031188    .0216555
       ethnl |   .2301286    .120914     1.90   0.060    -.0099826    .4702397
        musl |   .3941277   .1034554     3.81   0.000     .1886858    .5995695
     fertwdi |   .0776051   .0310254     2.50   0.014     .0159949    .1392153
       lpopd |  -.0575632   .0256157    -2.25   0.027    -.1084308   -.0066956
      urbwdi |  -.0030703   .0024582    -1.25   0.215    -.0079518    .0018112
       _cons |   7.479466   .5807141    12.88   0.000     6.326283    8.632649
------------------------------------------------------------------------------
Instrumented:  hlxpuwdi
Instruments:   lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxwdns
------------------------------------------------------------------------------
```

Model 3-5: Robust Check 4.4: Endog ck: Hausman test for diff btw coeff of OLS & of 2SLS

```
. estimates store imrhlxcooks
```

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi if ctry ~= "Mongolia" &
ctry ~= "Cuba"

      Source |       SS       df       MS              Number of obs =     103
-------------+------------------------------           F(  8,    94) =   76.28
       Model |  56.1415754     8  7.01769693           Prob > F      =  0.0000
    Residual |  8.64736325    94  .091993226           R-squared     =  0.8665
-------------+------------------------------           Adj R-squared =  0.8552
       Total |  64.7889387   102  .635185673           Root MSE      =   .3033

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5384846   .0689209    -7.81   0.000    -.6753287   -.4016404
    giniavni |   .0126649   .0043235     2.93   0.004     .0040805    .0212493
       ethnl |   .2279729   .1173435     1.94   0.055    -.0050153    .4609611
        musl |   .3997838   .1023093     3.91   0.000     .1966462    .6029214
     fertwdi |   .0779697   .0305345     2.55   0.012     .0173428    .1385966
       lpopd |  -.0578396   .0246953    -2.34   0.021    -.1068727   -.0088065
      urbwdi |  -.0033461   .0023203    -1.44   0.153    -.0079531    .0012608
    hlxpuwdi |   -.063887   .0282013    -2.27   0.026    -.1198814   -.0078926
       _cons |   7.455071   .5709045    13.06   0.000     6.321527    8.588615
------------------------------------------------------------------------------

. hausman imrhlxcooks

                ---- Coefficients ----
             |      (b)          (B)            (b-B)     sqrt(diag(V_b-V_B))
             |  imrhlxcooks       .          Difference          S.E.
-------------+----------------------------------------------------------------
    hlxpuwdi |   -.0675436     -.063887       -.0036566        .0569152
       lgdph |   -.5403779    -.5384846       -.0018934        .0073846
    giniavni |    .0123871     .0126649       -.0002778        .0017582
       ethnl |    .2301286     .2279729        .0021556        .0291667
        musl |    .3941277     .3997838       -.0056561        .0153562
     fertwdi |    .0776051     .0779697       -.0003646        .0054972
       lpopd |   -.0575632    -.0578396        .0002764        .0068047
      urbwdi |   -.0030703    -.0033461        .0002758        .0008119
------------------------------------------------------------------------------
                          b = consistent under Ho and Ha; obtained from ivreg
          B = inconsistent under Ha, efficient under Ho; obtained from regress

    Test:  Ho:  difference in coefficients not systematic

                  chi2(8) = (b-B)'[(V_b-V_B)^(-1)](b-B)
                          =        0.25
                Prob>chi2 =      1.0000
```

Model 3-5: Robust Ck 5.1: DepV: change IMR to U5MR (limrcom to lu5mrcom)

```
. regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi if ctry ~= "Mongolia" &
ctry ~= "Cuba", r

Linear regression                                       Number of obs =     103
                                                        F(  8,    94) =  114.90
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8668
                                                        Root MSE      =  .34619

------------------------------------------------------------------------------
             |               Robust
    lu5mrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
```

```
-------------+----------------------------------------------------------------
       lgdph |  -.5695636   .0846593    -6.73   0.000    -.7376567   -.4014705
    giniavni |   .0109413   .0056738     1.93   0.057    -.0003242    .0222067
       ethnl |   .3051037   .1329271     2.30   0.024     .0411738    .5690335
        musl |   .3381948   .1087472     3.11   0.002     .1222747    .5541148
     fertwdi |   .1183328   .0347655     3.40   0.001     .0493051    .1873606
       lpopd |  -.0647831    .029635    -2.19   0.031    -.1236241   -.0059421
      urbwdi |  -.0033829   .0024635    -1.37   0.173    -.0082742    .0015084
    hlxpuwdi |  -.0759792   .0291054    -2.61   0.011    -.1337686   -.0181899
       _cons |   7.924408   .6759809    11.72   0.000     6.582232    9.266584
------------------------------------------------------------------------------
```

Model 3-5: Robust Ck 5.2: DepV: Vary source: infant mortality (limrcom to limrwdi)

```
. regress limrwdi lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi if ctry ~= "Mongolia" &
ctry ~= "Cuba", r

Linear regression                                      Number of obs =     103
                                                       F(  8,    94) =  100.07
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8773
                                                       Root MSE      =  .28922

------------------------------------------------------------------------------
             |               Robust
     limrwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5355215   .0643576    -8.32   0.000    -.6633051   -.4077379
    giniavni |   .0127856   .0048184     2.65   0.009     .0032185    .0223527
       ethnl |   .1573518   .1055844     1.49   0.139    -.0522885     .366992
        musl |   .3125973   .0962393     3.25   0.002     .1215118    .5036828
     fertwdi |   .0974537   .0289649     3.36   0.001     .0399433    .1549641
       lpopd |  -.0439934   .0211711    -2.08   0.040    -.0860291   -.0019577
      urbwdi |  -.0031164   .0020807    -1.50   0.138    -.0072476    .0010148
    hlxpuwdi |  -.0617142     .02598    -2.38   0.020     -.113298   -.0101303
       _cons |   7.328166   .5176027    14.16   0.000     6.300453    8.355878
------------------------------------------------------------------------------
```

Model 3-5: Robust Ck 6.1: IndV: Vary source: WDI to HNP pub sp (hlxpuwdi to hlxpuwb)
(Same as Model 3-7)

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb if ctry ~= "Mongolia" &
ctry ~= "Cuba", r

Linear regression                                      Number of obs =     103
                                                       F(  8,    94) =   95.26
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8634
                                                       Root MSE      =  .30689

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5295405   .0687095    -7.71   0.000    -.6659649   -.3931162
    giniavni |   .0118105   .0049874     2.37   0.020     .0019079    .0217131
       ethnl |   .2256963   .1175787     1.92   0.058    -.0077591    .4591516
        musl |   .3909433   .0964343     4.05   0.000     .1994707    .5824159
     fertwdi |   .0873877   .0300125     2.91   0.004     .0277971    .1469782
       lpopd |  -.0532342   .0247857    -2.15   0.034    -.1024467   -.0040217
      urbwdi |  -.0037905   .0021098    -1.80   0.076    -.0079795    .0003985
     hlxpuwb |  -.0379418   .0205077    -1.85   0.067    -.0786604    .0027768
```

```
       _cons |   7.343664   .5467029    13.43   0.000     6.258173    8.429156
------------------------------------------------------------------------------
```

Model 3-5: Robust Ck 6.2: IndV: Transform: WDI to ln WDI pub sp (hlxpuwdi to lhlxpuwd)

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi lhlxpuwd if ctry ~=
>  "Mongolia" & ctry ~= "Cuba", r

Linear regression                                      Number of obs =     102
                                                       F(  8,    93) =   90.48
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8645
                                                       Root MSE      =  .30623

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5465639   .0677556    -8.07   0.000     -.681113   -.4120148
    giniavni |   .0128845   .0051167     2.52   0.014     .0027238    .0230453
       ethnl |   .2644688   .1159515     2.28   0.025     .0342122    .4947254
        musl |    .412724   .1002932     4.12   0.000     .2135615    .6118864
     fertwdi |   .0760991   .0292688     2.60   0.011     .0179771    .1342211
       lpopd |  -.0538095   .0258668    -2.08   0.040    -.1051759   -.0024432
      urbwdi |  -.0030656   .0021622    -1.42   0.160    -.0073594    .0012281
    lhlxpuwd |  -.1040669   .0586955    -1.77   0.080    -.2206245    .0124907
       _cons |   7.397658   .5410579    13.67   0.000     6.323225    8.472092
------------------------------------------------------------------------------
```

Model 3-5: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)

```
. regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi if ctry ~= "Mongolia" &
ctr
> y ~= "Cuba", r

Linear regression                                      Number of obs =     102
                                                       F(  8,    93) =   94.31
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8634
                                                       Root MSE      =  .30833

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |  -.5122996   .0717011    -7.14   0.000    -.6546838   -.3699154
    giniavni |   .0118692   .0044897     2.64   0.010     .0029536    .0207848
       ethnl |   .2077545   .1123764     1.85   0.068    -.0154028    .4309117
        musl |   .2858692   .0996908     2.87   0.005     .0879029    .4838354
     fertwdi |   .0671832   .0340431     1.97   0.051    -.0004196    .1347861
       lpopd |  -.0745269   .0238643    -3.12   0.002    -.1219167    -.027137
      urbwdi |  -.0052019   .0019519    -2.67   0.009     -.009078   -.0013258
    hlxpuwdi |  -.0588145   .0260567    -2.26   0.026     -.110558    -.007071
       _cons |   7.527808   .5968168    12.61   0.000     6.342648    8.712968
------------------------------------------------------------------------------
```

Model 3-5: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

```
. regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi gdpmf if ctry ~=
"Mongolia" & ctry ~= "Cuba", r
```

```
Linear regression                               Number of obs =     102
                                                F(  9,    92) =   84.89
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8634
                                                Root MSE      =     .31

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |  -.5122346   .0730338    -7.01   0.000    -.6572861   -.3671832
    giniavni |   .0118634   .0046647     2.54   0.013      .002599    .0211279
       ethnl |   .2079058   .1146741     1.81   0.073    -.0198469    .4356585
        musl |   .2858141   .1010391     2.83   0.006     .0851417    .4864866
     fertwdi |   .0671413    .034743     1.93   0.056    -.0018612    .1361438
       lpopd |  -.0745624   .0246528    -3.02   0.003    -.1235249   -.0255999
      urbwdi |  -.0052044   .0019936    -2.61   0.011    -.0091638   -.0012449
    hlxpuwdi |  -.0587915    .026347    -2.23   0.028    -.1111188   -.0064642
       gdpmf |  -.0011989   .1432684    -0.01   0.993    -.2857422    .2833444
       _cons |   7.527968   .6008677    12.53   0.000     6.334593    8.721343
------------------------------------------------------------------------------
```

Model 3-5: Robust Check 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)

```
. regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi hlxpuwdi if ctry ~= "Mongolia" &
ctry ~= "Cuba", r

Linear regression                               Number of obs =     103
                                                F(  8,    94) =  101.35
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8646
                                                Root MSE      =  .30545

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   -.525045   .0740667    -7.09   0.000    -.6721063   -.3779838
    giniavni |   .0133222   .0049162     2.71   0.008      .003561    .0230833
    ethnannx |   .2204114    .152874     1.44   0.153    -.0831235    .5239464
        musl |   .3865545   .0994303     3.89   0.000     .1891333    .5839756
     fertwdi |   .0869047   .0306331     2.84   0.006     .0260819    .1477276
       lpopd |  -.0543538     .02511    -2.16   0.033    -.1042102   -.0044973
      urbwdi |  -.0039222   .0022297    -1.76   0.082    -.0083493    .0005049
    hlxpuwdi |   -.063957   .0273715    -2.34   0.022    -.1183038   -.0096102
       _cons |   7.261239   .6091447    11.92   0.000     6.051768    8.470711
------------------------------------------------------------------------------
```

Model 3-5: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

```
. regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi hlxpuwdi ethnannf if ctry ~=
"Mongolia" & ctry ~= "Cuba", r

Linear regression                               Number of obs =     103
                                                F(  9,    93) =   89.74
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8647
                                                Root MSE      =    .307

------------------------------------------------------------------------------
             |               Robust
```

```
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5304016    .082995    -6.39   0.000    -.6952133   -.3655899
    giniavni |   .0131097   .0049935     2.63   0.010     .0031936    .0230257
    ethnannx |   .2169214    .154883     1.40   0.165    -.0906456    .5244884
        musl |    .386829   .1001439     3.86   0.000     .1879631    .5856949
     fertwdi |   .0858962   .0309485     2.78   0.007     .0244387    .1473537
       lpopd |   -.054754   .0249206    -2.20   0.030    -.1042413   -.0052666
      urbwdi |  -.0037488   .0024862    -1.51   0.135     -.008686    .0011883
    hlxpuwdi |  -.0646588   .0273582    -2.36   0.020    -.1189867   -.0103309
    ethnannf |  -.0308377   .1495267    -0.21   0.837    -.3277682    .2660927
       _cons |   7.315556   .6771216    10.80   0.000     5.970926    8.660185
------------------------------------------------------------------------------
```

Table 2.3, Model 3-6: Public Health Spending/GDP (WB-HNP, all cases) and IMR

Model 3-6: IMR predicted by 7 baseline var. and pub health sp/GDP (WB-HNP, all cases)

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb, r

Linear regression                                      Number of obs =     105
                                                       F(  8,    96) =  102.08
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8487
                                                       Root MSE      =   .3269

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5095302   .0735944    -6.92   0.000     -.655614   -.3634465
    giniavni |   .0098831   .0058717     1.68   0.096    -.0017721    .0215384
       ethnl |   .1988513   .1200938     1.66   0.101    -.0395331    .4372356
        musl |   .3453122   .1081834     3.19   0.002     .1305697    .5600546
     fertwdi |   .0899283   .0315137     2.85   0.005     .0273741    .1524825
       lpopd |  -.0768825   .0315683    -2.44   0.017     -.139545   -.0142199
      urbwdi |  -.0042461   .0021909    -1.94   0.056     -.008595    .0001028
     hlxpuwb |  -.0298866   .0246331    -1.21   0.228    -.0787829    .0190097
       _cons |   7.378843   .6351789    11.62   0.000     6.118023    8.639663
------------------------------------------------------------------------------
```

Model 3-6: Means and SDs of pub health sp/GDP (WB-HNP, all cases) and infant mort.

```
. summarize imrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
      imrcom |       105    70.13333    45.54712          6        202

. summarize limrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     limrcom |       105    3.985123     .807504   1.791759   5.308268

. summarize u5mrcom
```

```
    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     u5mrcom |       105    104.2857    77.10965          7        323

. summarize lu5mrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    lu5mrcom |       105    4.303227    .9223653    1.94591   5.777652

. summarize hlxpuwdi

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    hlxpuwdi |       105    2.001905    1.275206          0          7
```

Model 3-6: How much wld IMR fall if pub hlth sp/GDP (WB-HNP, all cases) rose 1 SD?

```
. estsimp regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb, r

Linear regression                                      Number of obs =     105
                                                       F(  8,    96) =  102.08
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8487
                                                       Root MSE      =   .3269

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5095302   .0735944    -6.92   0.000     -.655614   -.3634465
    giniavni |   .0098831   .0058717     1.68   0.096    -.0017721    .0215384
       ethnl |   .1988513   .1200938     1.66   0.101    -.0395331    .4372356
        musl |   .3453122   .1081834     3.19   0.002     .1305697    .5600546
     fertwdi |   .0899283   .0315137     2.85   0.005     .0273741    .1524825
       lpopd |  -.0768825   .0315683    -2.44   0.017     -.139545   -.0142199
      urbwdi |  -.0042461   .0021909    -1.94   0.056     -.008595    .0001028
     hlxpuwb |  -.0298866   .0246331    -1.21   0.228    -.0787829    .0190097
       _cons |   7.378843   .6351789    11.62   0.000     6.118023    8.639663
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....
% of simulations completed: 11% 22% 33% 44% 55% 66% 77% 88% 100%


Simulating sigma-squared.  Please wait


Number of simulations  : 1000
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9 b10

. setx mean

. simqi, tfunc(exp) fd(ev) changex(hlxpuwb 2.24381 3.7308)

First Difference: hlxpuwb 2.24381 3.7308

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+-----------------------------------------------
          dE[exp(limrcom)] |  -2.451822     2.268025    -6.934252    2.012781
```

Model 3-6: How much wld U5MR fall if pub hlth sp/GDP (WB-HNP, all cases) doubled?

```
. estsimp regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb,
>  r

Linear regression                                       Number of obs =     105
                                                        F(  8,    96) =  122.82
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8507
                                                        Root MSE      =  .37099

------------------------------------------------------------------------------
             |               Robust
    lu5mrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5353194   .0885029    -6.05   0.000    -.7109964   -.3596425
    giniavni |   .0080043   .0065886     1.21   0.227    -.0050741    .0210826
       ethnl |   .2706733   .1430493     1.89   0.061    -.0132773    .5546239
        musl |   .2784637   .1220794     2.28   0.025     .0361379    .5207894
     fertwdi |   .1330614   .0372643     3.57   0.001     .0590924    .2070304
       lpopd |  -.0850507   .0358609    -2.37   0.020    -.1562341   -.0138672
      urbwdi |  -.0044226   .0024687    -1.79   0.076    -.0093229    .0004778
     hlxpuwb |  -.0398042   .0292256    -1.36   0.176    -.0978165     .018208
       _cons |   7.813651   .7468406    10.46   0.000     6.331184    9.296117
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....
% of simulations completed: 11% 22% 33% 44% 55% 66% 77% 88% 100%


Simulating sigma-squared.  Please wait


Number of simulations  : 1000
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9 b10

. setx mean

. simqi, tfunc(exp) fd(ev) changex(hlxpuwb 2.24381 4.48762)

First Difference: hlxpuwb 2.24381 4.48762

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
        dE[exp(lu5mrcom)] |  -6.833164     4.776968     -15.7506    3.158867
```

Model 3-6: Robustness checks

Model 3-6: Robust Check 1.1: Change specification: Exclude fertility

```
. regress limrcom lgdph giniavni ethnl musl lpopd urbwdi hlxpuwb, r

Linear regression                                       Number of obs =     105
                                                        F(  7,    97) =  112.54
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8367
                                                        Root MSE      =  .33793

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5890315    .064691    -9.11   0.000    -.7174252   -.4606377
    giniavni |    .012286   .0060966     2.02   0.047     .0001859    .0243862
```

```
       ethnl |    .277458   .1243815     2.23   0.028     .0305952    .5243209
        musl |    .490139   .1021875     4.80   0.000      .287325    .6929529
       lpopd |  -.0935902   .0303934    -3.08   0.003    -.1539127   -.0332677
      urbwdi |  -.0055129   .0023199    -2.38   0.019    -.0101172   -.0009086
     hlxpuwb |  -.0275214   .0273871    -1.00   0.317    -.0818772    .0268345
       _cons |   8.361078    .509313    16.42   0.000     7.350232    9.371923
------------------------------------------------------------------------------
```

Model 3-6: Robust Check 1.2: Change specification: Include mean years of female school

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb mysfx, r

Linear regression                                      Number of obs =     105
                                                       F(  9,    95) =   91.83
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8651
                                                       Root MSE      =  .31028

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4415353   .0730504    -6.04   0.000    -.5865588   -.2965119
    giniavni |   .0102677   .0057295     1.79   0.076    -.0011067    .0216422
       ethnl |   .1329248   .1128899     1.18   0.242      -.09119    .3570395
        musl |   .2075488   .1082879     1.92   0.058    -.0074298    .4225274
     fertwdi |   .0279564   .0333901     0.84   0.405    -.0383314    .0942442
       lpopd |  -.0899284   .0323233    -2.78   0.007    -.1540984   -.0257585
      urbwdi |  -.0032949   .0021583    -1.53   0.130    -.0075797    .0009899
     hlxpuwb |  -.0152575   .0246209    -0.62   0.537    -.0641362    .0336211
       mysfx |  -.0950717   .0257805    -3.69   0.000    -.1462525    -.043891
       _cons |   7.515665   .6470568    11.62   0.000     6.231095    8.800235
------------------------------------------------------------------------------
```

Model 3-6: Robust Check 1.3: Change specification: Include female literacy

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb litfewdi, r

Linear regression                                      Number of obs =     105
                                                       F(  9,    95) =   82.11
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8596
                                                       Root MSE      =   .3166

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   -.472785   .0699871    -6.76   0.000     -.611727    -.333843
    giniavni |    .010856   .0058416     1.86   0.066     -.000741    .0224531
       ethnl |   .1140458   .1132632     1.01   0.317    -.1108102    .3389017
        musl |   .2212945   .1136254     1.95   0.054    -.0042804    .4468694
     fertwdi |   .0294174   .0363794     0.81   0.421    -.0428048    .1016395
       lpopd |  -.0915717   .0322321    -2.84   0.006    -.1555605   -.0275829
      urbwdi |  -.0038954   .0022186    -1.76   0.082       -.0083    .0005091
     hlxpuwb |  -.0137932   .0246085    -0.56   0.576    -.0626472    .0350608
    litfewdi |  -.0061781   .0020492    -3.01   0.003    -.0102464   -.0021099
       _cons |   7.754084   .6558911    11.82   0.000     6.451975    9.056192
------------------------------------------------------------------------------
```

Model 3-6: Robust Check 1.4: Change specification: Include geographical variables

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb airdist popcrgs latcapab, r

Linear regression                                      Number of obs =     105
                                                       F( 11,    93) =   74.46
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8552
                                                       Root MSE      =  .32493

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4961503   .0728629    -6.81   0.000    -.6408414   -.3514591
    giniavni |    .010728   .0055263     1.94   0.055    -.0002462    .0217021
       ethnl |   .2416366   .1158833     2.09   0.040     .0115153    .4717578
        musl |   .2727004   .1209169     2.26   0.026     .0325835    .5128174
     fertwdi |   .1027261   .0358129     2.87   0.005     .0316087    .1738434
       lpopd |  -.0625512   .0300943    -2.08   0.040    -.1223125     -.00279
      urbwdi |  -.0041383   .0021352    -1.94   0.056    -.0083785    .0001018
     hlxpuwb |  -.0320736   .0235043    -1.36   0.176    -.0787485    .0146013
     airdist |  -3.49e-06   .0000184    -0.19   0.850      -.00004     .000033
     popcrgs |  -.0008913   .0011125    -0.80   0.425    -.0031005    .0013178
    latcapab |   .0062052   .0037219     1.67   0.099    -.0011857    .0135962
       _cons |   7.073348   .6106901    11.58   0.000     5.860638    8.286058
------------------------------------------------------------------------------
```

Model 3-6: Robust Check 1.5: Change specification: Include regional dummy variables

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb afri lati east sout, r

Linear regression                                      Number of obs =     105
                                                       F( 12,    92) =   81.28
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8510
                                                       Root MSE      =  .33146

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5265867    .078499    -6.71   0.000    -.6824926   -.3706809
    giniavni |   .0113585   .0060138     1.89   0.062    -.0005854    .0233024
       ethnl |   .2072482   .1389446     1.49   0.139    -.0687078    .4832042
        musl |   .2485026   .0939145     2.65   0.010     .0619803    .4350249
     fertwdi |   .0888345   .0380654     2.33   0.022     .0132334    .1644355
       lpopd |  -.0803729   .0340182    -2.36   0.020     -.147936   -.0128098
      urbwdi |  -.0037031   .0025235    -1.47   0.146    -.0087149    .0013087
     hlxpuwb |  -.0295066   .0260714    -1.13   0.261    -.0812866    .0222734
        afri |  -.1450602    .101046    -1.44   0.155    -.3457463    .0556259
        lati |  -.1473451   .1381541    -1.07   0.289    -.4217311    .1270409
        east |  -.1345122    .144296    -0.93   0.354    -.4210964    .1520721
        sout |  -.0009364   .1926154    -0.00   0.996    -.3834873    .3816145
       _cons |   7.562588   .6659788    11.36   0.000     6.239896    8.885279
------------------------------------------------------------------------------
```

Model 3-6: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb gdphf giniavnf ethnlf, r

Linear regression                                      Number of obs =     105
                                                       F( 10,    93) =       .
```

```
                                                      Prob > F      =       .
                                                      R-squared     =  0.8558
                                                      Root MSE      =  .32423

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4961249   .0708153    -7.01   0.000    -.6367499   -.3554998
    giniavni |   .0068244   .0060577     1.13   0.263    -.0052051    .0188538
       ethnl |   .1764708    .121299     1.45   0.149     -.064405    .4173466
        musl |   .3266317   .1090383     3.00   0.004     .1101033    .5431601
     fertwdi |   .1033473   .0302881     3.41   0.001     .0432011    .1634935
       lpopd |  -.0777361   .0297835    -2.61   0.011    -.1368802   -.0185919
      urbwdi |  -.0034547   .0023881    -1.45   0.151    -.0081969    .0012875
     hlxpuwb |  -.0192412   .0257887    -0.75   0.457    -.0704524    .0319701
       gdphf |  -.1944008   .1172498    -1.66   0.101    -.4272357    .0384341
    giniavnf |  -.0091363   .0784073    -0.12   0.907    -.1648378    .1465651
      ethnlf |  -.3202305   .1728907    -1.85   0.067    -.6635571    .0230961
       _cons |   7.327188   .5844698    12.54   0.000     6.166547     8.48783
------------------------------------------------------------------------------
```

Model 3-6: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb

   Huber iteration 1:  maximum difference in weights = .50188805
   Huber iteration 2:  maximum difference in weights = .06443493
   Huber iteration 3:  maximum difference in weights = .0440578
Biweight iteration 4:  maximum difference in weights = .15720668
Biweight iteration 5:  maximum difference in weights = .03974586
Biweight iteration 6:  maximum difference in weights = .01909129
Biweight iteration 7:  maximum difference in weights = .00284379

Robust regression                                     Number of obs =     105
                                                      F(  8,    96) =   61.16
                                                      Prob > F      =  0.0000

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5017699   .0769069    -6.52   0.000     -.654429   -.3491109
    giniavni |   .0119779   .0044985     2.66   0.009     .0030486    .0209073
       ethnl |    .212875   .1337522     1.59   0.115     -.052621     .478371
        musl |   .3728651   .1139008     3.27   0.001     .1467739    .5989564
     fertwdi |   .0952222   .0342346     2.78   0.007      .027267    .1631773
       lpopd |  -.0572725   .0261161    -2.19   0.031    -.1091126   -.0054325
      urbwdi |  -.0046185     .00258    -1.79   0.077    -.0097397    .0005028
     hlxpuwb |  -.0382952   .0241239    -1.59   0.116    -.0861808    .0095903
       _cons |   7.147018   .6109724    11.70   0.000     5.934247    8.359788
------------------------------------------------------------------------------
```

Model 3-6: Robust Check 3.2: Outlier checks: Median regression

```
. qreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb
Iteration  1:  WLS sum of weighted deviations =   26.56151

Iteration  1: sum of abs. weighted deviations =  26.182392
Iteration  2: sum of abs. weighted deviations =  26.164448
Iteration  3: sum of abs. weighted deviations =  26.155227
Iteration  4: sum of abs. weighted deviations =   26.09817
note:  alternate solutions exist
```

```
Iteration  5: sum of abs. weighted deviations =  26.075676
Iteration  6: sum of abs. weighted deviations =  26.062219
Iteration  7: sum of abs. weighted deviations =  26.053735
Iteration  8: sum of abs. weighted deviations =  26.051046
Iteration  9: sum of abs. weighted deviations =  26.051043

Median regression                                       Number of obs =       105
  Raw sum of deviations 68.21916 (about 4.1271343)
  Min sum of deviations 26.05104                        Pseudo R2     =    0.6181

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4327884   .0984805    -4.39   0.000    -.6282706   -.2373062
    giniavni |    .008059   .0059107     1.36   0.176    -.0036736    .0197916
       ethnl |   .1767561    .171265     1.03   0.305    -.1632021    .5167144
        musl |   .3114048   .1500659     2.08   0.041     .0135263    .6092833
     fertwdi |   .1071529   .0445884     2.40   0.018     .0186456    .1956602
       lpopd |  -.0726759   .0333122    -2.18   0.032    -.1388002   -.0065517
      urbwdi |  -.0056565   .0032742    -1.73   0.087    -.0121559    .0008428
     hlxpuwb |  -.0344956   .0296701    -1.16   0.248    -.0933903    .0243991
       _cons |   6.879609   .7924544     8.68   0.000       5.3066    8.452619
------------------------------------------------------------------------------
```

Model 3-6: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd
(Same as Model 3-7)

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb if ctry ~= "Mongolia" &
ctry ~= "Cuba", r

Linear regression                                       Number of obs =     103
                                                        F(  8,    94) =   95.26
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8634
                                                        Root MSE      =  .30689

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5295405   .0687095    -7.71   0.000    -.6659649   -.3931162
    giniavni |   .0118105   .0049874     2.37   0.020     .0019079    .0217131
       ethnl |   .2256963   .1175787     1.92   0.058    -.0077591    .4591516
        musl |   .3909433   .0964343     4.05   0.000     .1994707    .5824159
     fertwdi |   .0873877   .0300125     2.91   0.004     .0277971    .1469782
       lpopd |  -.0532342   .0247857    -2.15   0.034    -.1024467   -.0040217
      urbwdi |  -.0037905   .0021098    -1.80   0.076    -.0079795    .0003985
     hlxpuwb |  -.0379418   .0205077    -1.85   0.067    -.0786604    .0027768
       _cons |   7.343664   .5467029    13.43   0.000     6.258173    8.429156
------------------------------------------------------------------------------
```

Model 3-6: Robust Ck 5.1: DepV: change IMR to U5MR (limrcom to lu5mrcom)

```
. regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb, r

Linear regression                                       Number of obs =     105
                                                        F(  8,    96) =  122.82
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8507
                                                        Root MSE      =  .37099

------------------------------------------------------------------------------
```

```
             |               Robust
    lu5mrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5353194   .0885029    -6.05   0.000    -.7109964   -.3596425
    giniavni |   .0080043   .0065886     1.21   0.227    -.0050741    .0210826
       ethnl |   .2706733   .1430493     1.89   0.061    -.0132773    .5546239
        musl |   .2784637   .1220794     2.28   0.025     .0361379    .5207894
     fertwdi |   .1330614   .0372643     3.57   0.001     .0590924    .2070304
       lpopd |  -.0850507   .0358609    -2.37   0.020    -.1562341   -.0138672
      urbwdi |  -.0044226   .0024687    -1.79   0.076    -.0093229    .0004778
     hlxpuwb |  -.0398042   .0292256    -1.36   0.176    -.0978165     .018208
       _cons |   7.813651   .7468406    10.46   0.000     6.331184    9.296117
------------------------------------------------------------------------------
```

Model 3-6: Robust Ck 5.2: DepV: Vary source: infant mortality (limrcom to limrwdi)

```
. regress limrwdi lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb, r

Linear regression                                      Number of obs =     105
                                                       F(  8,    96) =  104.24
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8656
                                                       Root MSE      =  .30591

------------------------------------------------------------------------------
             |               Robust
     limrwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5046303   .0686906    -7.35   0.000      -.64098   -.3682806
    giniavni |   .0112806   .0052671     2.14   0.035     .0008255    .0217357
       ethnl |   .1386005   .1095335     1.27   0.209    -.0788218    .3560229
        musl |   .2777811   .1014727     2.74   0.007     .0763595    .4792028
     fertwdi |   .1110072   .0302307     3.67   0.000     .0509997    .1710147
       lpopd |  -.0545119   .0247553    -2.20   0.030    -.1036507   -.0053731
      urbwdi |  -.0041273   .0021788    -1.89   0.061    -.0084521    .0001975
     hlxpuwb |  -.0315963   .0220577    -1.43   0.155    -.0753805     .012188
       _cons |   7.143034   .5812381    12.29   0.000     5.989285    8.296783
------------------------------------------------------------------------------
```

Model 3-6: Robust Ck 6.2: IndV: Transform: WDI to ln WDI pub sp (hlxpuwb to lhlxpuwb)

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi lhlxpuwb, r

Linear regression                                      Number of obs =     104
                                                       F(  8,    95) =   99.09
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8491
                                                       Root MSE      =  .32716

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5188029   .0726912    -7.14   0.000    -.6631132   -.3744926
    giniavni |     .01069     .00604     1.77   0.080     -.001301     .022681
       ethnl |   .2237989   .1213733     1.84   0.068    -.0171576    .4647554
        musl |   .3624926   .1125018     3.22   0.002     .1391484    .5858369
     fertwdi |   .0854489   .0306938     2.78   0.006     .0245139    .1463839
       lpopd |  -.0754341   .0326207    -2.31   0.023    -.1401945   -.0106738
      urbwdi |  -.0038376   .0022082    -1.74   0.085    -.0082215    .0005463
    lhlxpuwb |  -.0758503   .0541723    -1.40   0.165    -.1833959    .0316952
       _cons |   7.376662   .6357766    11.60   0.000     6.114486    8.638838
```

Model 3-6: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)

```
. regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb, r

Linear regression                                       Number of obs =     104
                                                        F(  8,    95) =   94.27
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8552
                                                        Root MSE      =  .32127

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |  -.5140489   .0744596    -6.90   0.000    -.6618698   -.3662279
    giniavni |   .0103503   .0048171     2.15   0.034     .0007871    .0199136
       ethnl |   .1888052   .1165878     1.62   0.109    -.0426508    .4202611
        musl |   .2629997   .1029354     2.55   0.012     .0586472    .4673523
     fertwdi |   .0736831   .0347229     2.12   0.036     .0047493    .1426168
       lpopd |  -.0841515   .0257048    -3.27   0.001    -.1351819   -.0331211
      urbwdi |  -.0055023   .0020115    -2.74   0.007    -.0094956    -.001509
     hlxpuwb |  -.0254563   .0227816    -1.12   0.267    -.0706834    .0197709
       _cons |   7.581317   .6520862    11.63   0.000     6.286762    8.875871
------------------------------------------------------------------------------
```

Model 3-6: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

```
. regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb gdpmf, r

Linear regression                                       Number of obs =     104
                                                        F(  9,    94) =   87.05
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8552
                                                        Root MSE      =  .32296

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |  -.5128635   .0757046    -6.77   0.000    -.6631768   -.3625501
    giniavni |   .0102855   .0049696     2.07   0.041     .0004183    .0201527
       ethnl |   .1914872   .1192631     1.61   0.112    -.0453126     .428287
        musl |   .2625078   .1038199     2.53   0.013      .056371    .4686447
     fertwdi |   .0730323   .0359218     2.03   0.045     .0017087    .1443558
       lpopd |  -.0846038   .0267265    -3.17   0.002      -.13767   -.0315376
      urbwdi |  -.0055473   .0020652    -2.69   0.009    -.0096477   -.0014468
     hlxpuwb |  -.0251704   .0231436    -1.09   0.280    -.0711226    .0207819
       gdpmf |   -.019043   .1247232    -0.15   0.879    -.2666838    .2285977
       _cons |   7.581066   .6557117    11.56   0.000     6.279135    8.882997
------------------------------------------------------------------------------
```

Model 3-6: Robust Check 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)

```
. regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi hlxpuwb, r

Linear regression                                       Number of obs =     105
                                                        F(  8,    96) =  106.32
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8480
```

```
                                                      Root MSE      =   .3277

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4958466   .0781819    -6.34   0.000    -.6510364   -.3406569
    giniavni |   .0104755   .0057965     1.81   0.074    -.0010305    .0219815
    ethnannx |   .2170033   .1587874     1.37   0.175    -.0981871    .5321938
        musl |   .3385229   .1082451     3.13   0.002     .1236581    .5533878
     fertwdi |   .0972228   .0320176     3.04   0.003     .0336684    .1607772
       lpopd |  -.0724261   .0309865    -2.34   0.021    -.1339338   -.0109185
      urbwdi |  -.0047953    .002292    -2.09   0.039    -.0093448   -.0002457
     hlxpuwb |  -.0288298   .0250634    -1.15   0.253    -.0785803    .0209206
       _cons |   7.175733   .6831808    10.50   0.000      5.81963    8.531836
------------------------------------------------------------------------------
```

Model 3-6: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

```
. regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi hlxpuwb ethnannf, r

Linear regression                                      Number of obs =     105
                                                       F(  9,    95) =   91.29
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8487
                                                       Root MSE      =  .32863

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   -.513616   .0871793    -5.89   0.000    -.6866888   -.3405432
    giniavni |   .0097319   .0059945     1.62   0.108    -.0021687    .0216325
    ethnannx |   .2083843   .1595487     1.31   0.195      -.10836    .5251285
        musl |   .3397237   .1089259     3.12   0.002     .1234784    .5559689
     fertwdi |    .093934   .0322772     2.91   0.004     .0298557    .1580124
       lpopd |   -.072809    .031093    -2.34   0.021    -.1345365   -.0110815
      urbwdi |   -.004263   .0025283    -1.69   0.095    -.0092824    .0007563
     hlxpuwb |  -.0279313   .0253634    -1.10   0.274    -.0782841    .0224214
    ethnannf |  -.0928259   .1617482    -0.57   0.567    -.4139366    .2282848
       _cons |   7.346977    .764055     9.62   0.000     5.830136    8.863818
------------------------------------------------------------------------------
```

Table 2.3, Model 3-7: Public Health Spending/GDP (WB-HNP, -2 outliers) and IMR

Model 3-7: IMR pred. by 7 baseline var plus pub health sp/GDP (WB-HNP, -2 outl.)

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb if ctry ~=
> "Mongolia" & ctry ~= "Cuba", r

Linear regression                                      Number of obs =     103
                                                       F(  8,    94) =   95.26
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8634
                                                       Root MSE      =  .30689

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5295405   .0687095    -7.71   0.000    -.6659649   -.3931162
    giniavni |   .0118105   .0049874     2.37   0.020     .0019079    .0217131
```

```
       ethnl |   .2256963   .1175787     1.92   0.058    -.0077591    .4591516
        musl |   .3909433   .0964343     4.05   0.000     .1994707    .5824159
     fertwdi |   .0873877   .0300125     2.91   0.004     .0277971    .1469782
       lpopd |  -.0532342   .0247857    -2.15   0.034    -.1024467   -.0040217
      urbwdi |  -.0037905   .0021098    -1.80   0.076    -.0079795    .0003985
     hlxpuwb |  -.0379418   .0205077    -1.85   0.067    -.0786604    .0027768
       _cons |   7.343664   .5467029    13.43   0.000     6.258173    8.429156
------------------------------------------------------------------------------
```

Model 3-7: Means and SDs of pub health sp/GDP (WB-HNP, all cases) and IMR

```
. summarize imrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
      imrcom |       105    70.13333    45.54712          6        202

. summarize limrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     limrcom |       105    3.985123     .807504   1.791759   5.308268

. summarize u5mrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     u5mrcom |       105    104.2857    77.10965          7        323

. summarize lu5mrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    lu5mrcom |       105    4.303227    .9223653    1.94591   5.777652
. summarize hlxpuwb

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     hlxpuwb |       105     2.24381     1.48699          0        6.7
```

Model 3-7: How much wld IMR fall if pub hlth sp/GDP (WB-HNP, -2 outl.) rose 1 SD?

```
. estsimp regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb if ctry ~=
"Mongolia" & ctry ~= "Cuba", r

Linear regression                               Number of obs =     103
                                                F(  8,    94) =   95.26
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8634
                                                Root MSE      =  .30689

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5295405   .0687095    -7.71   0.000    -.6659649   -.3931162
    giniavni |   .0118105   .0049874     2.37   0.020     .0019079    .0217131
       ethnl |   .2256963   .1175787     1.92   0.058    -.0077591    .4591516
        musl |   .3909433   .0964343     4.05   0.000     .1994707    .5824159
     fertwdi |   .0873877   .0300125     2.91   0.004     .0277971    .1469782
       lpopd |  -.0532342   .0247857    -2.15   0.034    -.1024467   -.0040217
```

```
      urbwdi |  -.0037905   .0021098    -1.80   0.076    -.0079795    .0003985
     hlxpuwb |  -.0379418   .0205077    -1.85   0.067    -.0786604    .0027768
       _cons |   7.343664   .5467029    13.43   0.000     6.258173    8.429156
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....

Note: Clarify is expanding your dataset from 105 observations to 1000
observations in order to accommodate the simulations.  This will append
missing values to the bottom of your original dataset.

% of simulations completed: 11% 22% 33% 44% 55% 66% 77% 88% 100%


Simulating sigma-squared.  Please wait


Number of simulations  : 1000
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9 b10

. setx mean

. simqi, tfunc(exp) fd(ev) changex(hlxpuwb 2.24381 3.7308)

First Difference: hlxpuwb 2.24381 3.7308

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+------------------------------------------------
          dE[exp(limrcom)] |  -3.067465     1.880241    -6.662155    .6796551
```

Model 3-7: How much would IMR fall if pub health sp/GDP (WB-HNP) doubled?

```
. estsimp regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb
> if ctry ~= "Mongolia" & ctry ~= "Cuba", r

Linear regression                                      Number of obs =     103
                                                       F(  8,    94) =  121.80
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8640
                                                       Root MSE      =  .34984

------------------------------------------------------------------------------
             |               Robust
    lu5mrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5584097   .0834588    -6.69   0.000    -.7241191   -.3927002
    giniavni |   .0099956   .0057774     1.73   0.087    -.0014756    .0214668
       ethnl |   .2998848   .1396898     2.15   0.034     .0225273    .5772422
        musl |   .3273662   .1102907     2.97   0.004     .1083815    .5463509
     fertwdi |   .1298558   .0355453     3.65   0.000     .0592798    .2004317
       lpopd |  -.0595018   .0293551    -2.03   0.045    -.1177869   -.0012167
      urbwdi |  -.0038896   .0024018    -1.62   0.109    -.0086584    .0008791
     hlxpuwb |  -.0481318   .0260943    -1.84   0.068    -.0999426     .003679
       _cons |   7.790705   .6585894    11.83   0.000      6.48306     9.09835
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....
% of simulations completed: 11% 22% 33% 44% 55% 66% 77% 88% 100%


Simulating sigma-squared.  Please wait
```

```
Number of simulations  : 1000
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9 b10

. setx mean

. simqi, tfunc(exp) fd(ev) changex(hlxpuwb 2.24381 4.48762)

First Difference: hlxpuwb 2.24381 4.48762

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
         dE[exp(lu5mrcom)] |   -7.80431     4.439404    -15.86585    .9631348
```

Model 3-7: Robustness checks

Model 3-7: Robust Check 1.1: Change specification: Exclude fertility

```
. regress limrcom lgdph giniavni ethnl musl lpopd urbwdi hlxpuwb if ctry ~= "Mongoli
> a" & ctry ~= "Cuba", r

Linear regression                                      Number of obs =     103
                                                       F(  7,    95) =  109.24
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8517
                                                       Root MSE      =    .318

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.6106222   .0607818   -10.05   0.000    -.7312894    -.489955
    giniavni |   .0134227   .0052014     2.58   0.011     .0030966    .0237487
       ethnl |   .2986498   .1221511     2.44   0.016     .0561493    .5411504
        musl |   .5216433   .0857726     6.08   0.000     .3513631    .6919234
       lpopd |  -.0713902   .0245473    -2.91   0.005    -.1201227   -.0226577
      urbwdi |  -.0048228   .0021367    -2.26   0.026    -.0090646    -.000581
     hlxpuwb |  -.0329465   .0247218    -1.33   0.186    -.0820255    .0161326
       _cons |   8.356807   .4331359    19.29   0.000     7.496923     9.21669
------------------------------------------------------------------------------
```

Model 3-7: Robust Check 1.2: Change specification: Include mean years of female school

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb mysfx if ct
> ry ~= "Mongolia" & ctry ~= "Cuba", r

Linear regression                                      Number of obs =     103
                                                       F(  9,    93) =   90.74
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8837
                                                       Root MSE      =  .28469

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4562439   .0679965    -6.71   0.000    -.5912715   -.3212164
    giniavni |   .0124478   .0044538     2.79   0.006     .0036035    .0212921
       ethnl |   .1559803   .1097245     1.42   0.158    -.0619109    .3738715
        musl |   .2448569   .0979013     2.50   0.014     .0504442    .4392696
     fertwdi |   .0198686   .0316453     0.63   0.532    -.0429728      .08271
       lpopd |  -.0654405   .0250645    -2.61   0.011    -.1152136   -.0156673
      urbwdi |  -.0027383   .0020901    -1.31   0.193    -.0068889    .0014123
```

```
     hlxpuwb |  -.0228985   .0198957    -1.15   0.253    -.0624075    .0166104
       mysfx |  -.1036642   .0248222    -4.18   0.000    -.1529562   -.0543722
       _cons |   7.481003   .5540819    13.50   0.000     6.380706     8.5813
------------------------------------------------------------------------------
```

Model 3-7: Robust Check 1.3: Change specification: Include female literacy

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb litfewdi if
>  ctry ~= "Mongolia" & ctry ~= "Cuba", r

Linear regression                                      Number of obs =     103
                                                       F(  9,    93) =   77.48
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8767
                                                       Root MSE      =  .29303

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4906021   .0644459    -7.61   0.000    -.6185789   -.3626253
    giniavni |   .0129518   .0047162     2.75   0.007     .0035865    .0223172
       ethnl |     .13475   .1100243     1.22   0.224    -.0837364    .3532364
        musl |   .2581986   .1040464     2.48   0.015     .0515832    .4648141
     fertwdi |   .0214583   .0344799     0.62   0.535    -.0470119    .0899285
       lpopd |  -.0681124   .0257328    -2.65   0.010    -.1192127   -.0170121
      urbwdi |  -.0033858   .0021357    -1.59   0.116    -.0076269    .0008553
     hlxpuwb |  -.0207955   .0200062    -1.04   0.301    -.0605239    .0189329
    litfewdi |  -.0067166   .0019721    -3.41   0.001    -.0106329   -.0028004
       _cons |   7.75087   .5623352    13.78   0.000     6.634183    8.867556
------------------------------------------------------------------------------
```

Model 3-7: Robust Check 1.4: Change specification: Include geographical variables

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb airdist pop
> crgs latcapab if ctry ~= "Mongolia" & ctry ~= "Cuba", r

Linear regression                                      Number of obs =     103
                                                       F( 11,    91) =   71.70
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8657
                                                       Root MSE      =  .30926

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5268289    .069168    -7.62   0.000    -.6642227   -.3894351
    giniavni |   .0118278   .0050702     2.33   0.022     .0017564    .0218991
       ethnl |   .2401979   .1158074     2.07   0.041     .0101608     .470235
        musl |   .3512467   .1026239     3.42   0.001     .1473969    .5550965
     fertwdi |     .09309   .0346058     2.69   0.009     .0243498    .1618302
       lpopd |  -.0462342   .0278259    -1.66   0.100    -.1015069    .0090386
      urbwdi |  -.0035499   .0020668    -1.72   0.089    -.0076553    .0005555
     hlxpuwb |  -.0390968   .0206311    -1.90   0.061    -.0800781    .0018844
     airdist |   3.87e-06   .0000177     0.22   0.827    -.0000312     .000039
     popcrgs |  -.0005228   .0010963    -0.48   0.635    -.0027005    .0016548
    latcapab |   .0035306   .0032931     1.07   0.286    -.0030107    .0100719
       _cons |   7.206604   .5724297    12.59   0.000     6.069543    8.343665
------------------------------------------------------------------------------
```

Model 3-7: Robust Check 1.5: Change specification: Include regional dummy variables

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb afri lati e
> ast sout if ctry ~= "Mongolia" & ctry ~= "Cuba", r

Linear regression                                      Number of obs =     103
                                                       F( 12,    90) =   85.90
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8682
                                                       Root MSE      =  .30808

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5146586   .0710219    -7.25   0.000    -.6557559   -.3735613
    giniavni |   .0111732   .0054945     2.03   0.045     .0002575    .022089
       ethnl |   .2855749   .1281012     2.23   0.028     .0310795    .5400703
        musl |   .2963472   .0895858     3.31   0.001     .1183694    .4743249
     fertwdi |   .0792602   .0359331     2.21   0.030     .0078728    .1506476
       lpopd |  -.0495307   .0252312    -1.96   0.053    -.0996568    .0005954
      urbwdi |  -.0047239   .0023085    -2.05   0.044    -.0093102   -.0001377
     hlxpuwb |  -.0427195   .0217211    -1.97   0.052    -.0858722    .0004332
        afri |  -.1412655   .0979515    -1.44   0.153    -.3358632    .0533323
        lati |  -.0887116   .1332849    -0.67   0.507    -.3535053     .176082
        east |  -.2538423   .1162489    -2.18   0.032     -.484791   -.0228936
        sout |  -.0802828   .1732675    -0.46   0.644     -.424509    .2639434
       _cons |   7.449216   .5669969    13.14   0.000     6.322778    8.575655
------------------------------------------------------------------------------
```

Model 3-7: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb gdphf ginia
> vnf ethnlf if ctry ~= "Mongolia" & ctry ~= "Cuba", r

Linear regression                                      Number of obs =     103
                                                       F( 10,    91) =       .
                                                       Prob > F      =       .
                                                       R-squared     =  0.8657
                                                       Root MSE      =  .30927

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5188773   .0682807    -7.60   0.000    -.6545085   -.3832461
    giniavni |   .0104052   .0052786     1.97   0.052    -.0000801    .0208906
       ethnl |    .213409   .1176398     1.81   0.073    -.0202679     .447086
        musl |   .3772485   .0982064     3.84   0.000     .1821737    .5723234
     fertwdi |   .0924335   .0297223     3.11   0.002     .0333938    .1514732
       lpopd |  -.0538434   .0248136    -2.17   0.033    -.1031325   -.0045543
      urbwdi |   -.003574   .0023172    -1.54   0.126    -.0081769    .0010288
     hlxpuwb |  -.0340374   .0221914    -1.53   0.129    -.0781178     .010043
       gdphf |  -.2101226   .1185684    -1.77   0.080    -.4456441     .025399
    giniavnf |   .0279256   .0720341     0.39   0.699    -.1151614    .1710125
      ethnlf |  -.1825603   .1749934    -1.04   0.300    -.5301631    .1650425
       _cons |   7.296972   .5447069    13.40   0.000     6.214978    8.378965
------------------------------------------------------------------------------
```

Model 3-7: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb if ctry ~= "Mo
```

```
> ngolia" & ctry ~= "Cuba"

   Huber iteration 1:  maximum difference in weights = .29501385
   Huber iteration 2:  maximum difference in weights = .02800167
Biweight iteration 3:  maximum difference in weights = .14760568
Biweight iteration 4:  maximum difference in weights = .01337827
Biweight iteration 5:  maximum difference in weights = .00158169

Robust regression                                     Number of obs =     103
                                                      F(  8,    94) =   62.83
                                                      Prob > F      =  0.0000

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5232465   .0759705    -6.89   0.000    -.6740876   -.3724054
    giniavni |   .0114338   .0047181     2.42   0.017     .0020658    .0208018
       ethnl |   .2191882   .1299952     1.69   0.095    -.0389203    .4772968
        musl |   .3792097   .1126179     3.37   0.001     .1556042    .6028151
     fertwdi |   .0894316   .0336121     2.66   0.009      .022694    .1561691
       lpopd |  -.0507686   .0270116    -1.88   0.063    -.1044007    .0028635
      urbwdi |  -.0041241   .0025362    -1.63   0.107    -.0091598    .0009116
     hlxpuwb |   -.036563   .0245508    -1.49   0.140    -.0853092    .0121831
       _cons |   7.309721   .6267419    11.66   0.000      6.06531    8.554132
------------------------------------------------------------------------------
```

Model 3-7: Robust Check 3.2: Outlier checks: Median regression

```
. qreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb if ctry ~= "Mo
> ngolia" & ctry ~= "Cuba"
Iteration  1:  WLS sum of weighted deviations =  24.930055

Iteration  1: sum of abs. weighted deviations =  24.740289
Iteration  2: sum of abs. weighted deviations =   24.55703
Iteration  3: sum of abs. weighted deviations =  24.516726
Iteration  4: sum of abs. weighted deviations =  24.504717
Iteration  5: sum of abs. weighted deviations =  24.493742
Iteration  6: sum of abs. weighted deviations =  24.490227
Iteration  7: sum of abs. weighted deviations =   24.48829
Iteration  8: sum of abs. weighted deviations =  24.487485

Median regression                                   Number of obs =       103
  Raw sum of deviations 65.92571 (about 4.1271343)
  Min sum of deviations 24.48749                    Pseudo R2     =    0.6286

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4567538     .11044    -4.14   0.000    -.6760351   -.2374725
    giniavni |   .0079445   .0071087     1.12   0.267    -.0061699     .022059
       ethnl |   .1902638   .1893165     1.01   0.317    -.1856285    .5661561
        musl |   .3153437   .1684891     1.87   0.064    -.0191953    .6498827
     fertwdi |   .1037314   .0488107     2.13   0.036     .0068167    .2006461
       lpopd |  -.0663865   .0411801    -1.61   0.110    -.1481506    .0153776
      urbwdi |  -.0048621    .003755    -1.29   0.199    -.0123176    .0025935
     hlxpuwb |   -.035711   .0350665    -1.02   0.311    -.1053365    .0339144
       _cons |    7.02059   .9239109     7.60   0.000     5.186143    8.855036
------------------------------------------------------------------------------
```

Model 3-7: Robust Ck 4.1: Endog ck: Corr cand. inst (hlxwdns) & hyp endg reg (hlxpuwdi)

```
. correlate hlxpuwb hlxwdns
```

```
(obs=104)

             |  hlxpuwb  hlxwdns
-------------+------------------
     hlxpuwb |   1.0000
     hlxwdns |   0.3117   1.0000
```

Model 3-7: Robust Ck 4.2: Endog ck: Does CI predict HER in presence of exog regressors?

```
. ivreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi (hlxpuwb = hlxwdns) i
> f ctry ~= "Mongolia" & ctry ~= "Cuba", first

First-stage regressions
-----------------------

      Source |       SS       df       MS              Number of obs =     102
-------------+------------------------------           F(  8,    93) =    2.25
       Model |  33.2896603     8  4.16120754           Prob > F      =  0.0302
    Residual |  171.808474    93  1.84740295           R-squared     =  0.1623
-------------+------------------------------           Adj R-squared =  0.0903
       Total |  205.098135   101   2.0306746           Root MSE      =  1.3592

------------------------------------------------------------------------------
     hlxpuwb |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .2422969    .310318     0.78   0.437    -.3739332    .8585269
    giniavni |   .0152683   .0195846     0.78   0.438    -.0236229    .0541596
       ethnl |  -.4059517     .54788    -0.74   0.461    -1.493933    .6820293
        musl |  -.2366246   .4639136    -0.51   0.611    -1.157865    .6846159
     fertwdi |   .1331346   .1367728     0.97   0.333     -.138469    .4047382
       lpopd |  -.0402293    .110333    -0.36   0.716    -.2593288    .1788701
      urbwdi |   .0046404    .010543     0.44   0.661    -.0162959    .0255766
     hlxwdns |   .3135285   .1177055     2.66   0.009     .0797886    .5472684
       _cons |  -1.519313   2.590695    -0.59   0.559     -6.66392    3.625294
------------------------------------------------------------------------------
```

Model 3-7: Robust Check 4.3: Endog ck: 2SLS using hlxwdns as instrument for hlxpuwdi

```
Instrumental variables (2SLS) regression

      Source |       SS       df       MS              Number of obs =     102
-------------+------------------------------           F(  8,    93) =   66.00
       Model |  52.5818168     8   6.5727271           Prob > F      =  0.0000
    Residual |  9.31929617    93  .100207486           R-squared     =  0.8494
-------------+------------------------------           Adj R-squared =  0.8365
       Total |   61.901113   101  .612882307           Root MSE      =  .31656

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
     hlxpuwb |  -.0894417   .0874358    -1.02   0.309    -.2630719    .0841884
       lgdph |  -.5224373    .073563    -7.10   0.000    -.6685188   -.3763558
    giniavni |   .0126397   .0049487     2.55   0.012     .0028126    .0224669
       ethnl |   .1865303   .1421417     1.31   0.193    -.0957349    .4687955
        musl |   .3796424   .1078129     3.52   0.001     .1655473    .5937374
     fertwdi |   .0928477   .0331256     2.80   0.006     .0270667    .1586286
       lpopd |  -.0559075   .0262295    -2.13   0.036    -.1079941   -.0038208
      urbwdi |  -.0031857   .0025249    -1.26   0.210    -.0081997    .0018282
       _cons |   7.341778   .5964608    12.31   0.000     6.157325    8.526231
------------------------------------------------------------------------------
Instrumented:  hlxpuwb
```

```
Instruments:   lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxwdns
------------------------------------------------------------------------------
```

Model 3-7: Robust Check 4.4: Endog ck: Hausman test for diff btw coeff of OLS & of 2SLS

```
. estimates store hlxhnpcooksd

. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb if ctry ~=
> "Mongolia" & ctry ~= "Cuba"

      Source |       SS       df       MS              Number of obs =     103
-------------+------------------------------           F(  8,    94) =   74.24
       Model |  55.9356687     8  6.99195859           Prob > F      =  0.0000
    Residual |  8.85326993    94  .094183723           R-squared     =  0.8634
-------------+------------------------------           Adj R-squared =  0.8517
       Total |  64.7889387   102  .635185673           Root MSE      =  .30689

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5295405   .0698361    -7.58   0.000    -.6682017   -.3908794
    giniavni |   .0118105   .0043372     2.72   0.008      .003199     .020422
       ethnl |   .2256963   .1194985     1.89   0.062    -.0115708    .4629633
        musl |   .3909433   .1035243     3.78   0.000     .1853934    .5964933
     fertwdi |   .0873877    .030898     2.83   0.006     .026039    .1487363
       lpopd |  -.0532342   .0248305    -2.14   0.035    -.1025356   -.0039327
      urbwdi |  -.0037905   .0023314    -1.63   0.107    -.0084195    .0008386
     hlxpuwb |  -.0379418   .0225684    -1.68   0.096    -.0827519    .0068683
       _cons |   7.343664   .5761343    12.75   0.000     6.199736    8.487592
------------------------------------------------------------------------------

. hausman hlxhnpcooksd, constant

                 ---- Coefficients ----
              |      (b)          (B)            (b-B)     sqrt(diag(V_b-V_B))
              | hlxhnpcooksd       .          Difference          S.E.
-------------+----------------------------------------------------------------
     hlxpuwb |   -.0894417    -.0379418       -.0514999         .084473
       lgdph |   -.5224373    -.5295405        .0071032        .0231178
    giniavni |    .0126397     .0118105        .0008292         .002383
       ethnl |    .1865303     .2256963       -.0391659        .0769699
        musl |    .3796424     .3909433        -.011301        .0301054
     fertwdi |    .0928477     .0873877          .00546        .0119424
       lpopd |   -.0559075    -.0532342       -.0026733        .0084521
      urbwdi |   -.0031857    -.0037905        .0006047        .0009693
       _cons |    7.341778     7.343664       -.0018859         .154385
------------------------------------------------------------------------------
                           b = consistent under Ho and Ha; obtained from ivreg
         B = inconsistent under Ha, efficient under Ho; obtained from regress

    Test:  Ho:  difference in coefficients not systematic

                  chi2(9) = (b-B)'[(V_b-V_B)^(-1)](b-B)
                          =        0.54
                Prob>chi2 =      1.0000
```

Model 3-7: Robust Ck 5.1: DepV: change IMR to U5MR (limrcom to lu5mrcom)

```
. regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb if ctry ~=
>  "Mongolia" & ctry ~= "Cuba", r

Linear regression                                      Number of obs =     103
```

```
                                                F(  8,    94) =  121.80
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8640
                                                Root MSE      =  .34984

------------------------------------------------------------------------------
             |               Robust
    lu5mrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5584097   .0834588    -6.69   0.000    -.7241191   -.3927002
    giniavni |   .0099956   .0057774     1.73   0.087    -.0014756    .0214668
       ethnl |   .2998848   .1396898     2.15   0.034     .0225273    .5772422
        musl |   .3273662   .1102907     2.97   0.004     .1083815    .5463509
     fertwdi |   .1298558   .0355453     3.65   0.000     .0592798    .2004317
       lpopd |  -.0595018   .0293551    -2.03   0.045    -.1177869   -.0012167
      urbwdi |  -.0038896   .0024018    -1.62   0.109    -.0086584    .0008791
     hlxpuwb |  -.0481318   .0260943    -1.84   0.068    -.0999426     .003679
       _cons |   7.790705   .6585894    11.83   0.000      6.48306     9.09835
------------------------------------------------------------------------------
```

Model 3-7: Robust Ck 5.2: DepV: Vary source: infant mortality (limrcom to limrwdi)

```
. regress limrwdi lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb if ctry ~= "Mongolia" &
ctry ~= "Cuba", r

Linear regression                               Number of obs =     103
                                                F(  8,    94) =   97.37
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8738
                                                Root MSE      =  .29331

------------------------------------------------------------------------------
             |               Robust
     limrwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5272972   .0638092    -8.26   0.000     -.653992   -.4006025
    giniavni |   .0119037    .004792     2.48   0.015     .0023891    .0214183
       ethnl |    .157171   .1081127     1.45   0.149    -.0574893    .3718312
        musl |   .3043106   .0965559     3.15   0.002     .1125966    .4960245
     fertwdi |   .1062923   .0290738     3.66   0.000     .0485655     .164019
       lpopd |  -.0393872   .0208031    -1.89   0.061    -.0806922    .0019178
      urbwdi |   -.003563   .0020993    -1.70   0.093    -.0077313    .0006052
     hlxpuwb |  -.0342333   .0198817    -1.72   0.088     -.073709    .0052423
       _cons |    7.22152   .5124472    14.09   0.000     6.204044    8.238996
------------------------------------------------------------------------------
```

Model 3-7: Robust Ck 6.2: IndV: Transform: WDI to ln WDI pub sp (hlxpuwb to lhlxpuwb)

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi lhlxpuwb if ctry ~=
>  "Mongolia" & ctry ~= "Cuba", r

Linear regression                               Number of obs =     102
                                                F(  8,    93) =   92.84
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8636
                                                Root MSE      =  .30719

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5415757   .0675153    -8.02   0.000    -.6756476   -.4075038
```

```
    giniavni |   .0126281   .0050712     2.49   0.015     .0025577    .0226986
       ethnl |   .2580664   .1168977     2.21   0.030     .0259308     .490202
        musl |   .4113291   .0984212     4.18   0.000     .2158841    .6067741
     fertwdi |   .0815597   .0293232     2.78   0.007     .0233297    .1397896
       lpopd |  -.0513653   .0254764    -2.02   0.047    -.1019563   -.0007743
      urbwdi |  -.0033292    .002139    -1.56   0.123    -.0075767    .0009184
    lhlxpuwb |  -.0853452   .0482038    -1.77   0.080    -.1810683     .010378
       _cons |   7.348763   .5373656    13.68   0.000     6.281661    8.415864
------------------------------------------------------------------------------
```

Model 3-7: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)

```
. regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb if ctry ~=
>  "Mongolia" & ctry ~= "Cuba", r

Linear regression                                      Number of obs =     102
                                                       F(  8,    93) =   91.02
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8597
                                                       Root MSE      =  .31244

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |  -.5062266   .0716281    -7.07   0.000    -.6484658   -.3639873
    giniavni |   .0110745   .0044616     2.48   0.015     .0022146    .0199345
       ethnl |   .2107728    .114956     1.83   0.070    -.0175069    .4390526
        musl |   .2811296   .0997843     2.82   0.006     .0829778    .4792814
     fertwdi |    .075466   .0341042     2.21   0.029     .0077417    .1431902
       lpopd |  -.0692231    .023189    -2.99   0.004    -.1152719   -.0231744
      urbwdi |  -.0055651    .001976    -2.82   0.006     -.009489   -.0016412
     hlxpuwb |  -.0302043   .0213694    -1.41   0.161    -.0726398    .0122311
       _cons |   7.424169   .5972748    12.43   0.000       6.2381    8.610238
------------------------------------------------------------------------------
```

Model 3-7: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

```
. regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwb gdpmf if c
> try ~= "Mongolia" & ctry ~= "Cuba", r

Linear regression                                      Number of obs =     102
                                                       F(  9,    92) =   83.45
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8597
                                                       Root MSE      =  .31413

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |  -.5059522   .0731371    -6.92   0.000    -.6512089   -.3606955
    giniavni |   .0110476   .0046299     2.39   0.019     .0018521    .0202431
       ethnl |   .2115122   .1181196     1.79   0.077    -.0230836     .446108
        musl |   .2808869   .1009358     2.78   0.007     .0804197    .4813541
     fertwdi |   .0752502   .0350889     2.14   0.035     .0055606    .1449399
       lpopd |  -.0693934   .0240882    -2.88   0.005    -.1172347   -.0215521
      urbwdi |  -.0055765   .0020313    -2.75   0.007    -.0096108   -.0015421
     hlxpuwb |  -.0300853   .0215982    -1.39   0.167    -.0729813    .0128106
       gdpmf |  -.0055065   .1277996    -0.04   0.966    -.2593276    .2483146
       _cons |   7.425163   .6014478    12.35   0.000     6.230636    8.619691
------------------------------------------------------------------------------
```

Model 3-7: Robust Check 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)

```
. regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi hlxpuwb if ctry
> ~= "Mongolia" & ctry ~= "Cuba", r

Linear regression                                       Number of obs =     103
                                                        F(  8,    94) =  100.11
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8613
                                                        Root MSE      =  .30916

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5168667   .0737298    -7.01   0.000     -.663259   -.3704743
    giniavni |   .0124524   .0049269     2.53   0.013     .0026699    .0222349
    ethnannx |   .2134311   .1552375     1.37   0.172    -.0947966    .5216588
        musl |   .3770766   .0988871     3.81   0.000     .1807339    .5734193
     fertwdi |   .0962917   .0308234     3.12   0.002     .0350911    .1574922
       lpopd |  -.0498955   .0246088    -2.03   0.045    -.0987569   -.0010341
      urbwdi |  -.0043547   .0022175    -1.96   0.053    -.0087575    .0000482
     hlxpuwb |  -.0375845   .0209804    -1.79   0.076    -.0792416    .0040726
       _cons |   7.158775   .6014498    11.90   0.000     5.964582    8.352967
------------------------------------------------------------------------------
```

Model 3-7: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

```
. regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi hlxpuwb ethnannf
>  if ctry ~= "Mongolia" & ctry ~= "Cuba", r

Linear regression                                       Number of obs =     103
                                                        F(  9,    93) =   89.09
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8613
                                                        Root MSE      =   .3108

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5149218   .0835316    -6.16   0.000    -.6807991   -.3490445
    giniavni |    .012539   .0050323     2.49   0.014     .0025458    .0225321
    ethnannx |   .2144062   .1562972     1.37   0.173    -.0959691    .5247815
        musl |     .37698   .0993398     3.79   0.000     .1797109    .5742492
     fertwdi |   .0966439   .0314287     3.08   0.003     .0342328     .159055
       lpopd |  -.0497899   .0242039    -2.06   0.042     -.097854   -.0017259
      urbwdi |  -.0044139   .0024689    -1.79   0.077    -.0093166    .0004888
     hlxpuwb |  -.0376815    .021408    -1.76   0.082    -.0801935    .0048305
    ethnannf |   .0112986   .1520418     0.07   0.941    -.2906264    .3132235
       _cons |   7.139549   .6763854    10.56   0.000     5.796381    8.482716
------------------------------------------------------------------------------
```

Table 2.3, Model 3-8: Does trained att. at birth mediate spending and survival?

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi delivcom if ctry ~=
"Mongolia" & ctry ~= "Cuba", r

Linear regression                                       Number of obs =     101
                                                        F(  9,    91) =   76.86
```

```
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8810
                                                Root MSE      =  .28447

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4805153   .0629853    -7.63   0.000    -.6056279   -.3554028
    giniavni |   .0104214    .004861     2.14   0.035     .0007655    .0200772
       ethnl |   .2585104   .1058735     2.44   0.017     .0482057     .468815
        musl |   .3338356   .0971142     3.44   0.001     .1409302     .526741
     fertwdi |   .0415253   .0288399     1.44   0.153    -.0157615    .0988122
       lpopd |   -.068748   .0263919    -2.60   0.011    -.1211724   -.0163237
      urbwdi |  -.0007552   .0020461    -0.37   0.713    -.0048196    .0033091
    hlxpuwdi |  -.0393529   .0258296    -1.52   0.131    -.0906602    .0119544
    delivcom |  -.0068374    .001661    -4.12   0.000    -.0101368    -.003538
       _cons |   7.580416   .5280021    14.36   0.000     6.531605    8.629227
------------------------------------------------------------------------------
```

Table 2.3, Model 3-9: Does DTP3 immz. mediate spending and survival?

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi dtp3con if ctry ~=
"Mongolia" & ctry ~= "Cuba", r

Linear regression                               Number of obs =      96
                                                F(  9,    86) =   61.05
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8606
                                                Root MSE      =  .29086

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4839161   .0669097    -7.23   0.000    -.6169283   -.3509039
    giniavni |   .0138006   .0051608     2.67   0.009     .0035413    .0240598
       ethnl |   .1845366   .1104172     1.67   0.098    -.0349656    .4040388
        musl |   .4332148   .1038354     4.17   0.000     .2267968    .6396327
     fertwdi |   .0579193   .0297706     1.95   0.055    -.0012626    .1171012
       lpopd |   -.051201   .0284422    -1.80   0.075    -.1077423    .0053403
      urbwdi |  -.0045254   .0020671    -2.19   0.031    -.0086347   -.0004161
    hlxpuwdi |   -.044548   .0273819    -1.63   0.107    -.0989815    .0098855
     dtp3con |  -.0051532   .0013553    -3.80   0.000    -.0078474    -.002459
       _cons |    7.46427   .5603584    13.32   0.000     6.350314    8.578226
------------------------------------------------------------------------------
```

Table 2.3, Model 3-10: Does measles immz. mediate spending and survival?

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi hlxpuwdi mcvcon if ctry ~=
"Mongolia" & ctry ~= "Cuba", r

Linear regression                               Number of obs =      96
                                                F(  9,    86) =   61.32
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8523
                                                Root MSE      =  .29932

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
```

```
-------------+------------------------------------------------------------------
       lgdph |  -.5099285   .0697657    -7.31   0.000    -.6486182   -.3712388
    giniavni |   .0138528   .0053287     2.60   0.011     .0032596    .0244459
       ethnl |   .1851371   .1127343     1.64   0.104    -.0389713    .4092454
        musl |    .415958   .1025023     4.06   0.000     .2121902    .6197258
     fertwdi |    .063712   .0292857     2.18   0.032     .0054939    .1219301
       lpopd |  -.0557535   .0278258    -2.00   0.048    -.1110694   -.0004375
      urbwdi |  -.0038704   .0021645    -1.79   0.077    -.0081733    .0004326
    hlxpuwdi |  -.0472313   .0292652    -1.61   0.110    -.1054086    .0109461
      mcvcon |  -.0038062   .0014907    -2.55   0.012    -.0067697   -.0008427
       _cons |   7.528854   .5609388    13.42   0.000     6.413744    8.643963
------------------------------------------------------------------------------
```

Table 2.4: Long-Term Democracy, Pub Health Sp, Service Utilization, and IMR

Table 2.4: Summary of Robustness checks for Models 4-1, 4-2, 4-4, 4-6 to 4-10

This table gives the t-score of the association between long-term democratic experience (or in Model 4-8, family planning effort) and the outcomes indicated at the top of each column, in the context of 16 checks for robustness. The statistical output follows the table. In each check for robustness the 7 socioeconomic "baseline"variables (Model 2-3) are controlled for, just as in the models in Table 2.4.

	Model 4-1	Model 4-2	Model 4-4	Model 4-6	Model 4-7	Model 4-8	Model 4-9	Modl 4-10
Dependent variable	Public health spending	Birth attendance	Female schooling	Family planning	Fertility	Fertility	Safe water	Infant mortality
Independent variable	Democ 1900-90	Democ 1900-90	Democ 1900-90	Democ 1900-90	Democ 1900-90	Family planning	Democ 1900-90	Democ 1900-90
Basic Model	1.36	1.29	1.36	*2.10	***-4.04	***-4.87	**2.99	*-2.30
1.1. Specif: Excl fertility		*2.34	**2.87				***4.30	**-2.99
1.1a. Specif: Excl fert, -2 outliers		**2.69	*2.56					**-2.79
1.1b: Specif: Include fertility				0.54				
1.2. Specif: Incl fem sch	0.83	0.96		*2.61	***-3.32	***-4.34	**2.93	†-1.86
1.3. Specif: Incl fem lit	0.88	1.10		1.65	***-5.21	***-4.65	**2.95	*-2.27
1.4. Specif: Incl geogr	1.43	1.12	1.26	*2.02	***-3.76	***-4.37	**3.09	*-1.99
1.5. Specif: Incl reg dum	1.34	*2.30	1.35	1.44	***-3.33	***-5.36	**2.71	*-2.22
1.6. Specif: Incl fam planning					*-2.38			
2.1. Imput: msg data flags	1.36	1.37	1.19	1.37	***-3.52	***-4.55	*2.49	*-2.24
3.1. Outliers: rreg	0.93	1.32	1.04	*2.10	***-3.69	***-6.77	***3.56	†-1.89
3.2. Outliers: qreg	1.28	1.03	0.98	0.78	***-3.80	***-7.49	***4.62	-0.93
3.3. Outliers: cooksd	0.78	*2.01	1.54	*2.15	***-4.35	***-4.66	**2.80	*-2.11
4.3. Endog: 2SLS								*-2.00
4.3a. Endog: 2SLS, -2 outliers								†-1.75
5.1. DV: lu5mrcom								**-2.76
5.2. DV: limrwdi								*-2.29
6.3. IV: pavg7090	0.98	0.45	0.15	**3.21	***-4.12	***-4.41	***3.36	-0.33

6.3a. IV: pavg7090, -2 outliers		0.81						
6.4. IV: free7290	-1.08	†1.79	0.38	**-3.21	***-3.23	***-4.54	**-2.84	-0.47
6.4a. IV: free7290, - 2 outliers		†1.74						
6.5. IV: pol90								
6.5a. IV: pol90, - 2 outliers								
6.6. IV: free8090								
6.6a. IV: free8090, - 2 outliers								
6.7. IV: free90								
6.7a. IV: free90, - 2 outliers								
7.1. IV: lgdpmx	1.41	1.04	0.77	1.62	**-2.96	***-4.41	*2.43	-1.51
7.2. IV: lgdpmx, mdf	1.13	0.30	0.48	†1.67	**-2.62	***-4.54	**2.63	-1.43
7.3. IV: ethnannx		1.44	0.86	*2.03	***-3.54	***-4.73	**2.94	†-1.86
7.4. IV: ethnannx, mdf		1.29	0.86	*2.00	***-3.51	***-4.58	**2.88	†-1.85
Basic model clarify								-4.94

Table 2.4, Alternative Measures of Long-Term Democracy in Models 4-2 to 4-6 & 4-9

DV = 7 different social services
IV = Alternative measures of long-term democratic experience

Tscores of long-term democratic experience variable by social service predicted

With fertility	deliv	dtp3	mcv	mysf	rtot	wate	sani
pavg0090	1.29	0.98	-0.73	1.36		**2.99	0.46
pavg7090	0.45	-0.24	-1.29	0.15		***3.36	0.25
free7290	1.79	0.08	0.57	0.38		**-2.84	-0.60

Without fertility	deliv	dtp3	mcv	mysf	rtot	wate	sani
pavg0090	*2.34	†1.76	-0.06	**2.87	*2.10	***4.30	1.21
pavg7090	†1.76	0.54	-0.66	†1.82	**3.21	***4.80	1.10
free7290	0.54	-0.50	0.03	-1.28	**-3.21	***-3.72	-1.19

Table 2.4, Model 4-1: Long-Term Democracy and Public Health Sp/GDP

Model 4-1: Bivariate correlations among independent variables

```
. correlate hlxpuwdi lgdph giniavni age65 lpopd urbwdi pavg0090
(obs=100)

             | hlxpuwdi    lgdph giniavni    age65    lpopd   urbwdi pavg0090
-------------+------------------------------------------------------------------
    hlxpuwdi |   1.0000
       lgdph |   0.2589   1.0000
    giniavni |   0.0579  -0.0330   1.0000
       age65 |   0.1690   0.2672  -0.1229   1.0000
```

```
       lpopd |  -0.1611   0.1540  -0.3091   0.1494   1.0000
      urbwdi |   0.3421   0.8159  -0.0345   0.3814   0.0539   1.0000
    pavg0090 |   0.1379   0.2232   0.1523   0.3362   0.2045   0.0782   1.0000
```

Model 4-1: 5 Socioeconomic variables and public health spending/GDP

```
. regress hlxpuwdi lgdph giniavni lpopd urbwdi age65, r

Linear regression                                       Number of obs =     104
                                                        F(  5,    98) =    4.51
                                                        Prob > F      =  0.0010
                                                        R-squared     =  0.1625
                                                        Root MSE      =  1.2022

------------------------------------------------------------------------------
             |               Robust
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .0001187   .2319224     0.00   1.000    -.4601239    .4603612
    giniavni |   .0031006   .0174605     0.18   0.859    -.0315492    .0377503
       lpopd |  -.1783791   .1034438    -1.72   0.088    -.3836601    .0269018
      urbwdi |   .0179372   .0091102     1.97   0.052    -.0001417    .0360162
       age65 |   .0525015   .0994139     0.53   0.599    -.1447821    .2497852
       _cons |   1.546655   1.637154     0.94   0.347    -1.702223    4.795534
------------------------------------------------------------------------------
```

Model 4-1: 5 socioeconomic variables, long-term democ, and public health spending/GDP

```
. regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg0090, r

Linear regression                                       Number of obs =     100
                                                        F(  6,    93) =    3.51
                                                        Prob > F      =  0.0036
                                                        R-squared     =  0.1742
                                                        Root MSE      =  1.2141

------------------------------------------------------------------------------
             |               Robust
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.0987077    .227104    -0.43   0.665    -.5496912    .3522758
    giniavni |  -.0030174   .0184731    -0.16   0.871    -.0397014    .0336665
       lpopd |  -.1879341   .1155681    -1.63   0.107    -.4174295    .0415614
      urbwdi |   .0217944   .0093715     2.33   0.022     .0031845    .0404043
       age65 |   .0104127   .1078626     0.10   0.923    -.2037809    .2246064
    pavg0090 |   .0404492   .0297168     1.36   0.177    -.0185625    .0994609
       _cons |   2.731553   1.763117     1.55   0.125    -.7696475    6.232754
------------------------------------------------------------------------------
```

Model 4-1: Robustness checks

Model 4-1: Robust Check 1.2: Change specification: Include female schooling

```
. regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg0090 mysfx, r

Linear regression                                       Number of obs =     100
                                                        F(  7,    92) =    3.52
                                                        Prob > F      =  0.0021
                                                        R-squared     =  0.2179
                                                        Root MSE      =  1.1879
```

```
------------------------------------------------------------------------------
             |               Robust
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.3133258   .2636041    -1.19   0.238    -.8368663    .2102146
    giniavni |  -.0054262   .0169756    -0.32   0.750    -.0391411    .0282887
       lpopd |  -.1909207   .1027529    -1.86   0.066    -.3949969    .0131556
      urbwdi |   .0193925   .0090966     2.13   0.036     .0013258    .0374591
       age65 |  -.0705303    .103016    -0.68   0.495     -.275129    .1340684
    pavg0090 |   .0263187   .0316314     0.83   0.408     -.036504    .0891414
       mysfx |   .1995379    .092589     2.16   0.034     .0156482    .3834275
       _cons |   4.118377   1.886575     2.18   0.032     .3714759    7.865278
------------------------------------------------------------------------------
```

Model 4-1: Robust Check 1.3: Change specification: Include female literacy

```
. regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg0090 litfewdi, r

Linear regression                                      Number of obs =     100
                                                       F(  7,    92) =    3.68
                                                       Prob > F      =  0.0015
                                                       R-squared     =  0.2352
                                                       Root MSE      =  1.1747

------------------------------------------------------------------------------
             |               Robust
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.2979921   .2588678    -1.15   0.253    -.8121259    .2161417
    giniavni |  -.0074161   .0167787    -0.44   0.660    -.0407399    .0259078
       lpopd |  -.2003857    .100456    -1.99   0.049       -.3999   -.0008714
      urbwdi |    .019216   .0091088     2.11   0.038     .0011252    .0373069
       age65 |  -.0739579   .1038694    -0.71   0.478    -.2802516    .1323358
    pavg0090 |   .0257414    .029174     0.88   0.380    -.0322007    .0836834
    litfewdi |   .0165933   .0061274     2.71   0.008     .0044237    .0287628
       _cons |   3.933997   1.852917     2.12   0.036     .2539432    7.614051
------------------------------------------------------------------------------
```

Model 4-1: Robust Check 1.4: Change specification: Incl geographical var

```
. regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg0090 airdist popcrgs latcap
> ab, r

Linear regression                                      Number of obs =     100
                                                       F(  9,    90) =    2.41
                                                       Prob > F      =  0.0168
                                                       R-squared     =  0.2004
                                                       Root MSE      =  1.2145

------------------------------------------------------------------------------
             |               Robust
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.1997697   .2427833    -0.82   0.413     -.682101    .2825616
    giniavni |   .0050687   .0178821     0.28   0.777    -.0304572    .0405946
       lpopd |  -.2053244   .1135277    -1.81   0.074     -.430867    .0202182
      urbwdi |   .0203193   .0087987     2.31   0.023     .0028391    .0377994
       age65 |  -.0101647   .1075671    -0.09   0.925    -.2238654     .203536
    pavg0090 |   .0438832   .0307906     1.43   0.158    -.0172876    .1050541
     airdist |   -.000029   .0000718    -0.40   0.687    -.0001716    .0001137
     popcrgs |   .0029347   .0045131     0.65   0.517    -.0060314    .0119008
    latcapab |   .0181815   .0115427     1.58   0.119    -.0047502    .0411131
```

```
       _cons |   3.028648   1.756358     1.72   0.088    -.4606641    6.517961
------------------------------------------------------------------------------
```

Model 4-1: Robust Check 1.5: Change specification: Include regional dummies

```
. regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg0090 afri lati east sout, r

Linear regression                                      Number of obs =     100
                                                       F( 10,    89) =    3.36
                                                       Prob > F      =  0.0009
                                                       R-squared     =  0.2018
                                                       Root MSE      =  1.2202

------------------------------------------------------------------------------
             |               Robust
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   -.018736   .2653232    -0.07   0.944    -.5459276    .5084555
    giniavni |  -.0136711   .0207487    -0.66   0.512    -.0548983     .027556
       lpopd |  -.1821773   .1251722    -1.46   0.149    -.4308917    .0665371
      urbwdi |   .0136853   .0111777     1.22   0.224    -.0085245    .0358951
       age65 |  -.0297818   .1256066    -0.24   0.813    -.2793594    .2197957
    pavg0090 |   .0381605   .0285524     1.34   0.185    -.0185725    .0948935
        afri |  -.1210598   .4155084    -0.29   0.771    -.9466661    .7045466
        lati |   .4747048   .5614074     0.85   0.400    -.6407997    1.590209
        east |  -.1881625    .617014    -0.30   0.761    -1.414156    1.037831
        sout |  -.5685425   .5330292    -1.07   0.289     -1.62766    .4905751
       _cons |   3.075032   1.998015     1.54   0.127    -.8949803    7.045044
------------------------------------------------------------------------------
```

Model 4-1: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg0090 gdphf, r

Linear regression                                      Number of obs =     100
                                                       F(  6,    93) =    3.51
                                                       Prob > F      =  0.0036
                                                       R-squared     =  0.1742
                                                       Root MSE      =  1.2141

------------------------------------------------------------------------------
             |               Robust
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.0987077    .227104    -0.43   0.665    -.5496912    .3522758
    giniavni |  -.0030174   .0184731    -0.16   0.871    -.0397014    .0336665
       lpopd |  -.1879341   .1155681    -1.63   0.107    -.4174295    .0415614
      urbwdi |   .0217944   .0093715     2.33   0.022     .0031845    .0404043
       age65 |   .0104127   .1078626     0.10   0.923    -.2037809    .2246064
    pavg0090 |   .0404492   .0297168     1.36   0.177    -.0185625    .0994609
       gdphf |  (dropped)
       _cons |   2.731553   1.763117     1.55   0.125    -.7696475    6.232754
------------------------------------------------------------------------------
```

Model 4-1: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg0090

   Huber iteration 1:  maximum difference in weights = .72258176
   Huber iteration 2:  maximum difference in weights = .19461918
   Huber iteration 3:  maximum difference in weights = .07849564
```

```
   Huber iteration 4:  maximum difference in weights = .04290017
Biweight iteration 5:  maximum difference in weights = .28371575
Biweight iteration 6:  maximum difference in weights = .04033861
Biweight iteration 7:  maximum difference in weights = .01002993
Biweight iteration 8:  maximum difference in weights = .00488891

Robust regression                                       Number of obs =     100
                                                        F(  6,    93) =    2.41
                                                        Prob > F      =  0.0329

------------------------------------------------------------------------------
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .0345545   .2084564     0.17   0.869    -.3793986    .4485075
    giniavni |   .0082423   .0123605     0.67   0.507    -.0163032    .0327878
       lpopd |  -.0906626   .0748308    -1.21   0.229    -.2392617    .0579364
      urbwdi |   .0121928   .0082304     1.48   0.142    -.0041511    .0285366
       age65 |   .0278571     .08068     0.35   0.731    -.1323573    .1880715
    pavg0090 |   .0206734   .0221772     0.93   0.354    -.0233661    .0647128
       _cons |   .9513487   1.574829     0.60   0.547     -2.17595    4.078648
------------------------------------------------------------------------------
```

Model 4-1: Robust Check 3.2: Outlier checks: Median regression

```
. qreg hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg0090
Iteration  1:  WLS sum of weighted deviations =  87.726433

Iteration  1: sum of abs. weighted deviations =  88.607253
Iteration  2: sum of abs. weighted deviations =  83.562366
Iteration  3: sum of abs. weighted deviations =  83.406246
Iteration  4: sum of abs. weighted deviations =  83.369795
Iteration  5: sum of abs. weighted deviations =  83.337165
Iteration  6: sum of abs. weighted deviations =  83.234208
Iteration  7: sum of abs. weighted deviations =  83.016062
Iteration  8: sum of abs. weighted deviations =  82.978771
Iteration  9: sum of abs. weighted deviations =  82.611731
Iteration 10: sum of abs. weighted deviations =  82.369943
Iteration 11: sum of abs. weighted deviations =  82.321791
Iteration 12: sum of abs. weighted deviations =  82.313801
Iteration 13: sum of abs. weighted deviations =  82.239265

Median regression                                   Number of obs =       100
  Raw sum of deviations       90 (about 1.7)
  Min sum of deviations 82.23926                    Pseudo R2     =    0.0862

------------------------------------------------------------------------------
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .0429216   .2085929     0.21   0.837    -.3713026    .4571458
    giniavni |   .0094851    .013317     0.71   0.478    -.0169598    .0359299
       lpopd |  -.1431489   .0793248    -1.80   0.074    -.3006722    .0143744
      urbwdi |   .0115436   .0083272     1.39   0.169    -.0049927    .0280799
       age65 |   .0798544   .0877926     0.91   0.365    -.0944842     .254193
    pavg0090 |   .0300096   .0235002     1.28   0.205    -.0166571    .0766763
       _cons |   .7916667   1.661554     0.48   0.635     -2.50785    4.091183
------------------------------------------------------------------------------
```

Model 4-1: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd

```
. regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg0090 if ctry ~= "Mongolia" & ctry ~= "Costa
Rica", r
```

```
Linear regression                                       Number of obs =      98
                                                        F(  6,    91) =    3.47
                                                        Prob > F      =  0.0039
                                                        R-squared     =  0.1599
                                                        Root MSE      =  1.0675

------------------------------------------------------------------------------
             |               Robust
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   -.113502   .2197395    -0.52   0.607    -.5499876    .3229836
    giniavni |   .0107583   .0158008     0.68   0.498     -.020628    .0421446
       lpopd |  -.0839632   .0833778    -1.01   0.317     -.249583    .0816565
      urbwdi |   .0201374   .0090572     2.22   0.029     .0021464    .0381283
       age65 |   .0306389   .1030512     0.30   0.767    -.1740596    .2353374
    pavg0090 |   .0157907   .0202155     0.78   0.437    -.0243648    .0559462
       _cons |   1.688733   1.510975     1.12   0.267    -1.312632    4.690099
------------------------------------------------------------------------------
```

Model 4-1: Robust Check 6.3: Vary data source: IV: pavg0090 to pavg7090

```
. regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg7090, r

Linear regression                                       Number of obs =     100
                                                        F(  6,    93) =    3.43
                                                        Prob > F      =  0.0042
                                                        R-squared     =  0.1649
                                                        Root MSE      =  1.2209

------------------------------------------------------------------------------
             |               Robust
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.0596263   .2323168    -0.26   0.798    -.5209614    .4017088
    giniavni |  -.0020482   .0186861    -0.11   0.913    -.0391549    .0350586
       lpopd |  -.1830767   .1161189    -1.58   0.118    -.4136658    .0475125
      urbwdi |   .0197582    .009516     2.08   0.041     .0008613    .0386552
       age65 |   .0355681   .1080502     0.33   0.743    -.1789982    .2501344
    pavg7090 |   .0268589   .0275288     0.98   0.332    -.0278079    .0815257
       _cons |   2.339607   1.831311     1.28   0.205    -1.297015    5.976228
------------------------------------------------------------------------------
```

Model 4-1: Robust Check 6.4: Vary data source: IV: pavg0090 to free7290

```
. regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 free7290, r

Linear regression                                       Number of obs =     103
                                                        F(  6,    96) =    3.95
                                                        Prob > F      =  0.0014
                                                        R-squared     =  0.1801
                                                        Root MSE      =  1.2012

------------------------------------------------------------------------------
             |               Robust
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.1073386   .2324913    -0.46   0.645    -.5688302    .3541531
    giniavni |  -.0025652   .0179065    -0.14   0.886    -.0381094     .032979
       lpopd |  -.1922464   .1112245    -1.73   0.087    -.4130253    .0285325
      urbwdi |   .0204049   .0091056     2.24   0.027     .0023305    .0384794
       age65 |   .0406905   .1040431     0.39   0.697    -.1658335    .2472144
    free7290 |  -.0629359   .0584993    -1.08   0.285    -.1790561    .0531842
```

```
       _cons |   3.232114   2.099294     1.54   0.127    -.9349513    7.399179
------------------------------------------------------------------------------
```

Model 4-1: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)

```
. regress hlxpuwdi lgdpmx giniavni lpopd urbwdi age65 pavg0090, r

Linear regression                                      Number of obs =      99
                                                       F(  6,    92) =    3.48
                                                       Prob > F      =  0.0038
                                                       R-squared     =  0.1758
                                                       Root MSE      =  1.2191

------------------------------------------------------------------------------
             |               Robust
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |  -.1410317     .25268    -0.56   0.578     -.642876    .3608126
    giniavni |  -.0020163   .0186771    -0.11   0.914    -.0391107    .0350781
       lpopd |  -.1843387   .1143956    -1.61   0.111    -.4115383    .0428608
      urbwdi |   .0230848   .0100326     2.30   0.024     .0031592    .0430104
      age65 |   .0134836   .1102517     0.12   0.903    -.2054857    .2324529
    pavg0090 |   .0441006   .0313834     1.41   0.163    -.0182296    .1064308
       _cons |   2.936544   2.043759     1.44   0.154    -1.122538    6.995625
------------------------------------------------------------------------------
```

Model 4-1: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

```
. regress hlxpuwdi lgdpmx giniavni lpopd urbwdi age65 pavg0090 gdpmf, r

Linear regression                                      Number of obs =      99
                                                       F(  7,    91) =    3.95
                                                       Prob > F      =  0.0008
                                                       R-squared     =  0.1798
                                                       Root MSE      =  1.2228

------------------------------------------------------------------------------
             |               Robust
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |  -.1674737    .257104    -0.65   0.516    -.6781791    .3432317
    giniavni |   -.000639   .0192084    -0.03   0.974    -.0387941    .0375161
       lpopd |  -.1686121   .1222487    -1.38   0.171    -.4114441    .0742199
      urbwdi |   .0241809    .010129     2.39   0.019     .0040609    .0443009
      age65 |   .0203115   .1112882     0.18   0.856    -.2007488    .2413718
    pavg0090 |   .0388112    .034385     1.13   0.262    -.0294904    .1071129
       gdpmf |    .523305   .5282186     0.99   0.324    -.5259363    1.572546
       _cons |   2.913845   2.061807     1.41   0.161    -1.181682    7.009372
------------------------------------------------------------------------------
```

Table 2.4, Model 4-2: Long-Term Democracy and Trained Attendance at Birth

Model 4-2: Bivariate correlations among independent variables

```
. correlate delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 (obs=99)

             | delivcom    lgdph giniavni    ethnl     musl  fertwdi    lpopd   urbwdi pavg0090
-------------+---------------------------------------------------------------------------------
    delivcom |   1.0000
       lgdph |   0.7086   1.0000
    giniavni |  -0.0705  -0.0341   1.0000
```

```
      ethnl |  -0.4133  -0.5146   0.2151   1.0000
       musl |   0.0726   0.3178  -0.2960  -0.2871   1.0000
     fertwdi |  -0.6757  -0.6468   0.1591   0.4781   0.0943   1.0000
      lpopd |   0.0932   0.1576  -0.3058  -0.1670  -0.1031  -0.3786   1.0000
      urbwdi |   0.7121   0.8161  -0.0373  -0.4982   0.3062  -0.5756   0.0605   1.0000
    pavg0090 |   0.2924   0.2251   0.1559   0.0295  -0.2981  -0.4325   0.1992   0.0817
```

Model 4-2: Trained attendance at birth predicted by 7 baseline var only

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi

      Source |       SS       df       MS              Number of obs =     103
-------------+------------------------------           F(  7,    95) =   25.02
       Model |  51477.8811     7  7353.98302           Prob > F      =  0.0000
    Residual |  27921.3227    95   293.90866           R-squared     =  0.6483
-------------+------------------------------           Adj R-squared =  0.6224
       Total |  79399.2039   102  778.423567           Root MSE      =  17.144

------------------------------------------------------------------------------
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   7.711868   3.846366     2.00   0.048     .0758649    15.34787
    giniavni |   -.234277   .2269607    -1.03   0.305     -.684851    .2162971
       ethnl |   .9348624   6.572201     0.14   0.887    -12.11261    13.98233
        musl |  -8.358008   5.744649    -1.45   0.149    -19.76258    3.046562
     fertwdi |  -6.312923   1.733646    -3.64   0.000    -9.754646   -2.871199
       lpopd |  -2.495193   1.288191    -1.94   0.056    -5.052575    .0621895
      urbwdi |   .3812785   .1301847     2.93   0.004     .1228292    .6397277
       _cons |   35.74748   30.51346     1.17   0.244     -24.8294    96.32436
------------------------------------------------------------------------------
```

Model 4-2: Trained attendance at birth predicted by 7 baseline var. and long-term democ.

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090, r

Linear regression                               Number of obs =      99
                                                F(  8,    90) =   29.74
                                                Prob > F      =  0.0000
                                                R-squared     =  0.6492
                                                Root MSE      =  16.939

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   7.713633   4.232684     1.82   0.072    -.6953337     16.1226
    giniavni |  -.2757311   .2100193    -1.31   0.193    -.6929711     .141509
       ethnl |    .242575    6.26684     0.04   0.969     -12.2076    12.69275
        musl |  -7.441788   5.461009    -1.36   0.176    -18.29103    3.407459
     fertwdi |  -4.880269   2.022933    -2.41   0.018     -8.89918   -.8613593
       lpopd |  -2.489255   1.313374    -1.90   0.061    -5.098503    .1199923
      urbwdi |   .4384493    .125431     3.50   0.001     .1892588    .6876398
    pavg0090 |   .4626902   .3589995     1.29   0.201    -.2505249    1.175905
       _cons |   29.56521   35.89207     0.82   0.412    -41.74064    100.8711
------------------------------------------------------------------------------
```

Model 4-2: Robustness checks

Model 4-2: Robust Check 1.1: Change specification: Exclude fertility

```
. regress delivcom lgdph giniavni ethnl musl lpopd urbwdi pavg0090, r
```

```
Linear regression                               Number of obs =      99
                                                F(  7,    91) =   30.82
                                                Prob > F      =  0.0000
                                                R-squared     =  0.6233
                                                Root MSE      =  17.455

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   10.88077   3.740704     2.91   0.005     3.450321    18.31122
    giniavni |  -.4352082   .2167723    -2.01   0.048    -.8657998   -.0046165
       ethnl |  -4.947207   6.221903    -0.80   0.429    -17.30625    7.411839
        musl |  -13.52936   4.773259    -2.83   0.006    -23.01085   -4.047869
       lpopd |  -1.760655   1.380786    -1.28   0.206    -4.503416     .982106
      urbwdi |   .5178366   .1337478     3.87   0.000     .2521631    .7835101
    pavg0090 |   .8289072   .3543253     2.34   0.022     .1250836    1.532731
       _cons |  -12.48648   27.85948    -0.45   0.655    -67.82591    42.85296
------------------------------------------------------------------------------
```

Model 4-2: Robust Check 1.1a: Change specification: Exclude fertility, -2 highest cooksd

```
. regress delivcom lgdph giniavni ethnl musl lpopd urbwdi pavg0090 if ctry ~= "Bangladesh" & ctry ~=
"Papua N.G."

      Source |       SS       df       MS              Number of obs =      97
-------------+------------------------------           F(  7,    89) =   22.36
       Model |  44181.8574     7  6311.69391           Prob > F      =  0.0000
    Residual |  25122.1839    89  282.271729           R-squared     =  0.6375
-------------+------------------------------           Adj R-squared =  0.6090
       Total |  69304.0412    96  721.917096           Root MSE      =  16.801

------------------------------------------------------------------------------
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   11.21977   3.688563     3.04   0.003     3.890677    18.54887
    giniavni |  -.4589194   .2194544    -2.09   0.039    -.8949705   -.0228682
       ethnl |  -6.527674   6.742841    -0.97   0.336    -19.92555    6.870207
        musl |  -13.28865   5.245817    -2.53   0.013    -23.71198   -2.865327
       lpopd |  -1.693861   1.340697    -1.26   0.210    -4.357796    .9700752
      urbwdi |   .4539485    .132068     3.44   0.001     .1915322    .7163649
    pavg0090 |   1.022189   .3801453     2.69   0.009     .2668488     1.77753
       _cons |  -9.518778   26.27345    -0.36   0.718    -61.72356      42.686
------------------------------------------------------------------------------
```

Model 4-2: Robust Check 1.2: Change specification: Include mean years of female school

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 mysfx, r

Linear regression                               Number of obs =      99
                                                F(  9,    89) =   29.34
                                                Prob > F      =  0.0000
                                                R-squared     =  0.6737
                                                Root MSE      =  16.427

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   5.166265    4.27129     1.21   0.230    -3.320697    13.65323
    giniavni |  -.2820209   .1957742    -1.44   0.153    -.6710201    .1069783
```

```
       ethnl |    4.10672   5.809513     0.71   0.481    -7.436658     15.6501
        musl |  -2.071232   5.225184    -0.40   0.693    -12.45356    8.311097
     fertwdi |  -2.576388   2.367533    -1.09   0.279    -7.280625    2.127849
       lpopd |  -1.752658   1.238887    -1.41   0.161      -4.2143    .7089827
      urbwdi |   .3864923   .1127036     3.43   0.001     .1625526    .6104319
    pavg0090 |   .3330587   .3465985     0.96   0.339    -.3556252    1.021743
       mysfx |   3.900424   1.497007     2.61   0.011     .9259021    6.874945
       _cons |   20.65984   37.07217     0.56   0.579    -53.00177    94.32146
------------------------------------------------------------------------------
```

Model 4-2: Robust Check 1.3: Change specification: Include female literacy

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 litfewdi, r

Linear regression                               Number of obs =      99
                                                F(  9,    89) =   31.83
                                                Prob > F      =  0.0000
                                                R-squared     =  0.6947
                                                Root MSE      =   15.89

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   5.295391   3.991688     1.33   0.188    -2.636008    13.22679
    giniavni |  -.3384964   .1960159    -1.73   0.088    -.7279759    .0509831
       ethnl |   6.920016   5.882504     1.18   0.243    -4.768393    18.60843
        musl |   1.091133    5.17785     0.21   0.834    -9.197145    11.37941
     fertwdi |  -1.091128    2.03781    -0.54   0.594    -5.140212    2.957956
       lpopd |  -1.449275   1.151547    -1.26   0.211    -3.737375    .8388242
      urbwdi |   .3853057   .1150451     3.35   0.001     .1567135     .613898
    pavg0090 |    .387023   .3505627     1.10   0.273    -.3095376    1.083584
    litfewdi |   .4123259   .1147529     3.59   0.001     .1843143    .6403374
       _cons |   3.386154   32.55608     0.10   0.917    -61.30209    68.07439
------------------------------------------------------------------------------
```

Model 4-2: Robust Ck 1.4: Change specification: Incl geographical variables

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 airdist popcrgs latcapab,
>  r

Linear regression                               Number of obs =      99
                                                F( 11,    87) =   24.73
                                                Prob > F      =  0.0000
                                                R-squared     =  0.6570
                                                Root MSE      =  17.036

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   6.613512   4.468327     1.48   0.142    -2.267773     15.4948
    giniavni |  -.3114819   .2152385    -1.45   0.151    -.7392917     .116328
       ethnl |   .0217591   6.383059     0.00   0.997    -12.66526    12.70878
        musl |  -7.857265   6.227575    -1.26   0.210    -20.23524    4.520714
     fertwdi |  -4.780693   2.333986    -2.05   0.044    -9.419743   -.1416422
       lpopd |  -2.293541   1.478487    -1.55   0.124    -5.232194    .6451119
      urbwdi |   .4696437   .1325584     3.54   0.001     .2061695    .7331179
    pavg0090 |   .4041798   .3619969     1.12   0.267    -.3153282    1.123688
     airdist |   .0012464   .0009855     1.26   0.209    -.0007125    .0032052
     popcrgs |   .0187154   .0690396     0.27   0.787    -.1185081     .155939
    latcapab |   .1337694   .1994971     0.67   0.504    -.2627526    .5302915
```

```
       _cons |   27.22456   39.72424     0.69   0.495    -51.73167    106.1808
------------------------------------------------------------------------------
```

Model 4-2: Robust Check 1.5: Change specification: Include regional dummies

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 afri lati east sout, r

Linear regression                                      Number of obs =      99
                                                       F( 12,    86) =   28.89
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7220
                                                       Root MSE      =  15.426

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    4.936891   4.677477     1.06   0.294    -4.361626    14.23541
    giniavni |   -.2097655   .2135221    -0.98   0.329    -.6342334    .2147024
       ethnl |   -13.78615   7.276361    -1.89   0.061    -28.25108    .6787769
        musl |   -14.89535   7.295072    -2.04   0.044    -29.39747   -.3932258
     fertwdi |   -7.170572   2.309094    -3.11   0.003     -11.7609   -2.580245
       lpopd |   -2.821856   1.176098    -2.40   0.019    -5.159862   -.4838491
      urbwdi |    .5195487   .1379598     3.77   0.000     .2452937    .7938036
    pavg0090 |    .8199395   .3559219     2.30   0.024     .1123902    1.527489
        afri |    2.531834   8.597672     0.29   0.769    -14.55977    19.62344
        lati |   -23.18276   8.441241    -2.75   0.007    -39.96339   -6.402132
        east |   -7.450846   9.345744    -0.80   0.428    -26.02957    11.12788
        sout |    -17.0391    12.7714    -1.33   0.186    -42.42779    8.349599
       _cons |    70.99162   40.54339     1.75   0.084    -9.605961    151.5892
------------------------------------------------------------------------------
```

Model 4-2: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 gdphf giniavnf ethnlf, r

Linear regression                                      Number of obs =      99
                                                       F( 10,    88) =   29.10
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6739
                                                       Root MSE      =  16.514

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    7.001086   3.708589     1.89   0.062    -.3689554    14.37113
    giniavni |   -.1227314   .2255234    -0.54   0.588    -.5709118    .3254489
       ethnl |    2.060574   6.544347     0.31   0.754    -10.94494    15.06609
        musl |   -6.999375   5.604389    -1.25   0.215    -18.13692     4.13817
     fertwdi |   -6.342606   1.931347    -3.28   0.001    -10.18075   -2.504459
       lpopd |   -2.454248   1.367178    -1.80   0.076    -5.171227    .2627304
      urbwdi |    .3653155   .1311055     2.79   0.007     .1047708    .6258602
    pavg0090 |    .5070554   .3688442     1.37   0.173    -.2259451    1.240056
       gdphf |  (dropped)
    giniavnf |    9.326048   4.920478     1.90   0.061    -.4523673    19.10446
      ethnlf |    7.535447   5.379353     1.40   0.165    -3.154886    18.22578
       _cons |    34.82588   31.81366     1.09   0.277    -28.39709    98.04885
------------------------------------------------------------------------------
```

Model 4-2: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090

   Huber iteration 1:  maximum difference in weights = .54763638
   Huber iteration 2:  maximum difference in weights = .1353925
   Huber iteration 3:  maximum difference in weights = .0493432
Biweight iteration 4:  maximum difference in weights = .17354263
Biweight iteration 5:  maximum difference in weights = .01730967
Biweight iteration 6:  maximum difference in weights = .02005843
Biweight iteration 7:  maximum difference in weights = .00777934

Robust regression                                       Number of obs =      99
                                                        F(  8,    90) =   18.74
                                                        Prob > F      =  0.0000

------------------------------------------------------------------------------
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    9.95252   4.195739     2.37   0.020     1.616952    18.28809
    giniavni |  -.3372919   .2481839    -1.36   0.178    -.8303525    .1557688
       ethnl |   .6385528   7.521876     0.08   0.933    -14.30497    15.58207
        musl |  -8.616652   6.254044    -1.38   0.172     -21.0414    3.808097
     fertwdi |  -4.454548   2.048727    -2.17   0.032    -8.524702    -.384394
       lpopd |   -2.73452   1.453219    -1.88   0.063    -5.621594    .1525543
      urbwdi |      .4017   .1455355     2.76   0.007     .1125683    .6908317
    pavg0090 |    .566774   .4298615     1.32   0.191    -.2872208    1.420769
       _cons |   16.86981    33.4905     0.50   0.616    -49.66492    83.40454
------------------------------------------------------------------------------
```

Model 4-2: Robust Check 3.2: Outlier checks: Median regression

```
. qreg delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090
Iteration  1:  WLS sum of weighted deviations =  1271.1127

Iteration  1: sum of abs. weighted deviations =  5525.6165
Iteration  2: sum of abs. weighted deviations =  1292.5979
Iteration  3: sum of abs. weighted deviations =   1256.633
Iteration  4: sum of abs. weighted deviations =  1246.0581
Iteration  5: sum of abs. weighted deviations =  1238.9658
Iteration  6: sum of abs. weighted deviations =  1236.4656
Iteration  7: sum of abs. weighted deviations =  1234.8993
Iteration  8: sum of abs. weighted deviations =   1230.335
Iteration  9: sum of abs. weighted deviations =  1230.3337
Iteration 10: sum of abs. weighted deviations =  1229.7224
Iteration 11: sum of abs. weighted deviations =  1229.5068
Iteration 12: sum of abs. weighted deviations =  1228.8072
Iteration 13: sum of abs. weighted deviations =  1228.7593
Iteration 14: sum of abs. weighted deviations =   1228.725

Median regression                                   Number of obs =        99
  Raw sum of deviations     2305 (about 61)
  Min sum of deviations 1228.725                    Pseudo R2     =    0.4669

------------------------------------------------------------------------------
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   11.65935   3.856168     3.02   0.003     3.998402     19.3203
    giniavni |  -.2924791   .2313544    -1.26   0.209    -.7521049    .1671467
       ethnl |   .6164634   7.200121     0.09   0.932    -13.68783    14.92076
        musl |  -7.998411    5.93055    -1.35   0.181    -19.78048    3.783663
     fertwdi |  -5.155092   1.928566    -2.67   0.009    -8.986526   -1.323659
       lpopd |  -3.642697   1.393308    -2.61   0.010    -6.410747   -.8746483
      urbwdi |   .3440664   .1298617     2.65   0.010     .0860735    .6020593
```

```
    pavg0090 |   .4112864   .3985355     1.03   0.305    -.3804741    1.203047
       _cons |    10.8309   31.56982     0.34   0.732    -51.88807    73.54986
------------------------------------------------------------------------------
```

Model 4-2: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd
(Same as Model 4-3)

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 if ctry ~= "Oman" & ctry
~= "Papua N.G.", r

Linear regression                                      Number of obs =      97
                                                       F(  8,    88) =   29.73
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6623
                                                       Root MSE      =  16.521

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   6.678217   4.251467     1.57   0.120    -1.770681    15.12712
    giniavni |  -.2326314   .2077944    -1.12   0.266    -.6455791    .1803163
       ethnl |    2.41543   6.241852     0.39   0.700     -9.98894     14.8198
        musl |  -6.598154   5.543846    -1.19   0.237    -17.61538    4.419075
     fertwdi |   -5.65467   2.031526    -2.78   0.007    -9.691902   -1.617439
       lpopd |  -2.596187   1.312119    -1.98   0.051    -5.203748    .0113746
      urbwdi |   .4194477   .1209381     3.47   0.001     .1791087    .6597867
    pavg0090 |    .629448   .3125404     2.01   0.047     .0083396    1.250556
       _cons |   39.95987   36.46732     1.10   0.276    -32.51127     112.431
------------------------------------------------------------------------------
```

Model 4-2: Robust Check 6.3: IndV: Vary source: pavg0090 to pavg7090

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg7090, r

Linear regression                                      Number of obs =      99
                                                       F(  8,    90) =   29.32
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6445
                                                       Root MSE      =   17.05

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   8.258918   4.241893     1.95   0.055    -.1683421    16.68618
    giniavni |  -.2524403     .21716    -1.16   0.248    -.6838666     .178986
       ethnl |   1.464663   6.368401     0.23   0.819    -11.18728     14.1166
        musl |  -8.006854   5.349084    -1.50   0.138    -18.63374    2.620034
     fertwdi |  -5.389337   2.138333    -2.52   0.013     -9.63751   -1.141165
       lpopd |  -2.441793   1.295297    -1.89   0.063    -5.015127      .13154
      urbwdi |   .4157197   .1284466     3.24   0.002     .1605381    .6709012
    pavg7090 |   .1514105   .3388427     0.45   0.656    -.5217597    .8245807
       _cons |   26.38947   35.45132     0.74   0.459    -44.04077     96.8197
------------------------------------------------------------------------------
```

Model 4-2: Robust Ck 6.3a: IndV: Vary source: pavg0090 to pavg7090, - 2 highst cooksd

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg7090 if ctry ~= "Oman" & ctry
~= "Myanmar", r
```

```
Linear regression                                       Number of obs =      97
                                                        F(  8,    88) =   29.77
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.6737
                                                        Root MSE      =  16.275

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   8.098579   3.766986     2.15   0.034     .6124864    15.58467
    giniavni |  -.2582017     .20648    -1.25   0.214    -.6685373     .152134
       ethnl |    3.09654   6.352293     0.49   0.627    -9.527306    15.72039
        musl |  -8.459718   5.110398    -1.66   0.101    -18.61556    1.696123
     fertwdi |  -5.180432    1.82761    -2.83   0.006    -8.812422   -1.548441
       lpopd |  -2.275269   1.323254    -1.72   0.089    -4.904959    .3544209
      urbwdi |   .4453166     .12838     3.47   0.001     .1901884    .7004448
    pavg7090 |    .262346   .3237252     0.81   0.420    -.3809899    .9056818
       _cons |   24.02917   32.03481     0.75   0.455    -39.63329    87.69162
------------------------------------------------------------------------------
```

Model 4-2: Robust Check 6.4: IndV: Vary source: pavg0090 to free7290

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi free7290, r

Linear regression                                       Number of obs =     102
                                                        F(  8,    93) =   33.92
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.6543
                                                        Root MSE      =      17

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   9.451282   4.143775     2.28   0.025     1.222566       17.68
    giniavni |  -.1021917     .21831    -0.47   0.641    -.5357121    .3313286
       ethnl |   2.475545   6.147649     0.40   0.688    -9.732468    14.68356
        musl |   -9.08922   5.252176    -1.73   0.087      -19.519    1.340561
     fertwdi |  -7.299376   1.982547    -3.68   0.000    -11.23632   -3.362432
       lpopd |  -1.917155   1.308576    -1.47   0.146    -4.515728    .6814186
      urbwdi |   .3514604   .1231275     2.85   0.005     .1069537    .5959671
    free7290 |   1.353607   .7553977     1.79   0.076    -.1464628    2.853678
       _cons |   6.882199   35.13222     0.20   0.845    -62.88342    76.64782
------------------------------------------------------------------------------
```

Model 4-2: Robust Ck 6.4a: IndV: Vary source: pavg0090 to free7290, - 2 highst cooksd

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi free7290 if ctry ~= "Oman" & ctry
~= "Bangladesh", r

Linear regression                                       Number of obs =     100
                                                        F(  8,    91) =   34.24
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.6712
                                                        Root MSE      =   16.37

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   5.927499   3.981308     1.49   0.140     -1.98088    13.83588
```

```
    giniavni |  -.0486148   .2169668    -0.22   0.823    -.4795927    .3823631
       ethnl |   1.574197   5.810416     0.27   0.787     -9.96748    13.11587
        musl |  -8.036713   5.435607    -1.48   0.143    -18.83388    2.760453
     fertwdi |  -8.534575   1.911394    -4.47   0.000    -12.33132   -4.737826
       lpopd |  -1.150832   1.294974    -0.89   0.377    -3.723139    1.421475
      urbwdi |   .3667379   .1190293     3.08   0.003     .1303008     .603175
    free7290 |    1.25799   .7214929     1.74   0.085    -.1751669    2.691147
       _cons |   34.78516   33.94144     1.02   0.308    -32.63534    102.2057
------------------------------------------------------------------------------
```

Model 4-2: Robust Ck 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)

```
. regress delivcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg0090, r

Linear regression                                      Number of obs =      98
                                                       F(  8,    89) =   28.25
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6354
                                                       Root MSE      =  17.106

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |    5.77676   4.291155     1.35   0.182    -2.749674    14.30319
    giniavni |  -.2846267   .2129892    -1.34   0.185    -.7078318    .1385784
       ethnl |  -.4115366    6.47794    -0.06   0.949    -13.28307    12.45999
        musl |  -5.956116   5.353203    -1.11   0.269    -16.59282    4.680586
     fertwdi |  -5.242939   2.087979    -2.51   0.014    -9.391707    -1.09417
       lpopd |  -2.513651   1.358423    -1.85   0.068    -5.212807    .1855062
      urbwdi |   .4689594   .1185077     3.96   0.000     .2334872    .7044316
    pavg0090 |   .3785348   .3632624     1.04   0.300    -.3432598    1.100329
       _cons |   44.93867   37.41558     1.20   0.233    -29.40529    119.2826
------------------------------------------------------------------------------
```

Model 4-2: Robust Ck 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

```
. regress delivcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 gdpmf, r

Linear regression                                      Number of obs =      98
                                                       F(  9,    88) =   25.33
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6361
                                                       Root MSE      =  17.186

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |   5.604185   4.271596     1.31   0.193    -2.884714    14.09308
    giniavni |  -.2765264   .2157606    -1.28   0.203    -.7053053    .1522525
       ethnl |  -.7693292   6.480035    -0.12   0.906    -13.64704    12.10838
        musl |  -6.052271    5.34875    -1.13   0.261    -16.68179    4.577246
     fertwdi |  -5.104076   2.168009    -2.35   0.021    -9.412539   -.7956126
       lpopd |  -2.351763   1.384003    -1.70   0.093    -5.102177    .3986516
      urbwdi |   .4814665   .1165463     4.13   0.000     .2498553    .7130778
    pavg0090 |   .3502642   .3562015     0.98   0.328    -.3576115     1.05814
       gdpmf |   4.599777   15.46024     0.30   0.767    -26.12421    35.32376
       _cons |   44.02366   38.11301     1.16   0.251    -31.71795    119.7653
------------------------------------------------------------------------------
```

Model 4-2: Robust Ck 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)

```
. regress delivcom lgdph giniavni ethnann musl fertwdi lpopd urbwdi pavg0090, r

Linear regression                                       Number of obs =      93
                                                        F(  8,    84) =   26.97
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.6338
                                                        Root MSE      =  16.878

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   10.72359   4.883819     2.20   0.031     1.011577     20.4356
    giniavni |  -.1297008   .2315611    -0.56   0.577    -.5901855    .3307839
     ethnann |      3.5674   7.081066     0.50   0.616    -10.51408    17.64888
        musl |  -4.253934   5.619228    -0.76   0.451    -15.42839    6.920517
     fertwdi |  -4.457735   2.085588    -2.14   0.035    -8.605156   -.3103142
       lpopd |  -2.265174    1.48812    -1.52   0.132    -5.224464    .6941154
      urbwdi |   .3257617   .1345898     2.42   0.018     .0581151    .5934083
    pavg0090 |   .5239202    .363777     1.44   0.154    -.1994903    1.247331
       _cons |  -.8178063   44.77242    -0.02   0.985    -89.85268    88.21707
------------------------------------------------------------------------------
```

Model 4-2: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

```
. regress delivcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg0090 ethnannf, r

Linear regression                                       Number of obs =      99
                                                        F(  9,    89) =   31.37
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.6568
                                                        Root MSE      =  16.846

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   9.849288   4.684303     2.10   0.038     .5416775     19.1569
    giniavni |  -.2031944   .2271639    -0.89   0.373    -.6545642    .2481754
    ethnannx |   3.036013    7.12303     0.43   0.671     -11.1173    17.18932
        musl |  -7.557675   5.599319    -1.35   0.181     -18.6834    3.568053
     fertwdi |  -4.648482   2.013454    -2.31   0.023    -8.649172   -.6477911
       lpopd |  -2.326831   1.360983    -1.71   0.091    -5.031074    .3774131
      urbwdi |    .374477   .1335411     2.80   0.006     .1091337    .6398202
    pavg0090 |   .4572046   .3550122     1.29   0.201    -.2481971    1.162606
    ethnannf |   11.10808   8.248156     1.35   0.181    -5.280833    27.49699
       _cons |   8.922226    42.4552     0.21   0.834    -75.43535     93.2798
------------------------------------------------------------------------------
```

Table 2.4, Model 4-3: Long-Term Democ. & Trained Att. at Birth (Excl. Outliers)

(Same as Model 4-2, Robustness Check 3.3)

Model 4-3: Means and SDs of trained attendance at birth and long term democracy

```
. summarize delivcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    delivcom |       103    59.42718    27.90024          7        100

. summarize pavg0090
```

```
    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    pavg0090 |       100     -3.0848    5.295036        -10         10
```

Model 4-3: How much would trained att. at birth rise if long-term democ rose one SD?

```
. estsimp regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090
>  if ctry ~= "Oman" & ctry ~= "Papua"

      Source |       SS       df       MS              Number of obs =      97
-------------+------------------------------           F(  8,    88) =   21.57
       Model |  47095.0463     8  5886.88079           Prob > F      =  0.0000
    Residual |  24018.0671    88   272.93258           R-squared     =  0.6623
-------------+------------------------------           Adj R-squared =  0.6316
       Total |  71113.1134    96  740.761598           Root MSE      =  16.521

------------------------------------------------------------------------------
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    6.678217   4.064371     1.64   0.104    -1.398866     14.7553
    giniavni |   -.2326314    .227936    -1.02   0.310    -.6856064    .2203435
       ethnl |     2.41543   6.871444     0.35   0.726    -11.24012    16.07098
        musl |   -6.598154   5.663942    -1.16   0.247    -17.85405     4.65774
     fertwdi |    -5.65467   1.985612    -2.85   0.005    -9.600656   -1.708684
       lpopd |   -2.596187   1.332297    -1.95   0.055    -5.243848    .0514739
      urbwdi |    .4194477   .1335339     3.14   0.002     .1540771    .6848183
    pavg0090 |     .629448   .4025843     1.56   0.122    -.1706037      1.4295
       _cons |    39.95987   31.93406     1.25   0.214    -23.50236    103.4221
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....
% of simulations completed: 11% 22% 33% 44% 55% 66% 77% 88% 100%


Simulating sigma-squared.  Please wait


Number of simulations  : 1000
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9 b10



. setx mean
. simqi, fd(ev) changex(pavg0090 -3.0848 2.2102)

First Difference: pavg0090 -3.0848 2.2102

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+------------------------------------------------
              dE(delivcom) |   3.285345     2.120021    -.8942623    7.459036
```

Table 2.4, Model 4-4: Long-Term Democracy and Female Schooling

Model 4-4: Bivariate correlations among independent variables

```
. correlate mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090
(obs=100)
```

```
             |    mysfx    lgdph giniavni    ethnl     musl  fertwdi    lpopd
-------------+---------------------------------------------------------------
       mysfx |   1.0000
       lgdph |   0.6707   1.0000
    giniavni |   0.0199  -0.0330   1.0000
       ethnl |  -0.4664  -0.5107   0.2183   1.0000
        musl |  -0.1381   0.3163  -0.2978  -0.2898   1.0000
     fertwdi |  -0.7718  -0.6396   0.1637   0.4830   0.0878   1.0000
       lpopd |   0.1491   0.1540  -0.3091  -0.1750  -0.0967  -0.3870   1.0000
      urbwdi |   0.6176   0.8159  -0.0345  -0.4912   0.3028  -0.5647   0.0539
    pavg0090 |   0.3906   0.2232   0.1523   0.0241  -0.2942  -0.4359   0.2045

             |   urbwdi pavg0090
-------------+------------------
      urbwdi |   1.0000
    pavg0090 |   0.0782   1.0000
```

Model 4-4: Female schooling predicted by 7 baseline variables only

```
. regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r

Linear regression                                      Number of obs =     105
                                                       F(  7,    97) =   45.30
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7479
                                                       Root MSE      =  1.1486

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .7211628   .2190056     3.29   0.001     .2864973    1.155828
    giniavni |   .0042383   .0147551     0.29   0.775    -.0250466    .0335232
       ethnl |  -.8494354   .4832254    -1.76   0.082    -1.808504    .1096333
        musl |  -1.510806   .3488769    -4.33   0.000     -2.20323   -.8183819
     fertwdi |  -.6436932   .0976878    -6.59   0.000    -.8375764   -.4498101
       lpopd |  -.1657724   .0853429    -1.94   0.055    -.3351544    .0036097
      urbwdi |   .0119389   .0078403     1.52   0.131    -.0036219    .0274998
       _cons |   1.785791   1.722436     1.04   0.302    -1.632768    5.204351
------------------------------------------------------------------------------
```

Model 4-4: Female schooling predicted by 7 baseline var. and long-term democracy

```
. regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090, r

Linear regression                                      Number of obs =     100
                                                       F(  8,    91) =   34.07
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7317
                                                       Root MSE      =  1.1528

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .6850309   .2205766     3.11   0.003     .2468826    1.123179
    giniavni |   .0003175    .015715     0.02   0.984    -.0308985    .0315335
       ethnl |   -.957702   .5079228    -1.89   0.063    -1.966628    .0512244
        musl |  -1.453651   .3504383    -4.15   0.000    -2.149753   -.7575484
     fertwdi |  -.5634572    .107122    -5.26   0.000    -.7762418   -.3506725
       lpopd |  -.1957196   .0913862    -2.14   0.035    -.3772472   -.0141921
```

```
      urbwdi |     .01437   .0083417     1.72   0.088    -.0021997    .0309397
    pavg0090 |   .0324924   .0238853     1.36   0.177    -.0149528    .0799375
       _cons |   1.961094   1.740935     1.13   0.263    -1.497061    5.419248
------------------------------------------------------------------------------
```

Model 4-4: Robustness checks

Model 4-4: Robust Check 1.1: Change specification: Exclude fertility
(Same as Model 4-5)

```
. regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg0090, r

Linear regression                                      Number of obs =     100
                                                       F(  7,    92) =   31.04
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6739
                                                       Root MSE      =   1.264

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   1.042445   .2827902     3.69   0.000     .4807989     1.60409
    giniavni |  -.0178605   .0162292    -1.10   0.274     -.050093     .014372
       ethnl |  -1.592719   .5184027    -3.07   0.003    -2.622311   -.5631262
        musl |  -2.131754   .3467471    -6.15   0.000    -2.820423   -1.443084
       lpopd |  -.1052752    .108484    -0.97   0.334    -.3207338    .1101834
      urbwdi |   .0231851   .0101342     2.29   0.024     .0030576    .0433125
    pavg0090 |   .0763853   .0265929     2.87   0.005     .0235696     .129201
       _cons |  -2.843389   1.957358    -1.45   0.150    -6.730871    1.044092
------------------------------------------------------------------------------
```

Model 4-4: Robust Ck 1.1a: Change specification: Excl fertility, disc 2 cases hi cooksd

```
. regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg0090 if ctry ~= "Singapore" & ctry ~=
"Oman", r

Linear regression                                      Number of obs =      98
                                                       F(  7,    90) =   33.64
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6925
                                                       Root MSE      =  1.2338

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   1.197694   .2723936     4.40   0.000      .656537    1.738852
    giniavni |  -.0196562   .0161048    -1.22   0.225    -.0516511    .0123387
       ethnl |  -1.495045   .5185907    -2.88   0.005    -2.525315   -.4647736
        musl |   -2.13755   .3389371    -6.31   0.000    -2.810908   -1.464193
       lpopd |  -.0848794   .1089188    -0.78   0.438    -.3012655    .1315068
      urbwdi |    .022321   .0097248     2.30   0.024      .003001    .0416411
    pavg0090 |   .0676842   .0264074     2.56   0.012     .0152213    .1201472
       _cons |  -3.992695   1.898583    -2.10   0.038    -7.764561   -.2208287
------------------------------------------------------------------------------
```

Model 4-4: Robust Check 1.4: Change specification: Incl geographical variables

```
. regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 airdist popcrgs latcapab, r
```

```
Linear regression                               Number of obs =     100
                                                F( 11,    88) =   27.01
                                                Prob > F      =  0.0000
                                                R-squared     =  0.7498
                                                Root MSE      =  1.1321

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .5696583   .2194064     2.60   0.011     .1336342    1.005682
    giniavni |  -.0038323   .0145699    -0.26   0.793     -.032787    .0251223
       ethnl |  -1.050246   .5471072    -1.92   0.058    -2.137507    .0370144
        musl |  -1.438797   .3783529    -3.80   0.000    -2.190694   -.6868999
     fertwdi |  -.5767503   .1197727    -4.82   0.000    -.8147734   -.3387273
       lpopd |  -.1463282   .0985587    -1.48   0.141    -.3421929    .0495365
      urbwdi |   .0185168   .0078069     2.37   0.020     .0030022    .0340314
    pavg0090 |   .0283273   .0225348     1.26   0.212    -.0164558    .0731105
     airdist |   .0001432   .0000791     1.81   0.074    -.0000139    .0003003
     popcrgs |  -.0012432   .0047115    -0.26   0.792    -.0106062    .0081198
    latcapab |   .0112116   .0132767     0.84   0.401     -.015173    .0375963
       _cons |   1.873239   1.765811     1.06   0.292    -1.635938    5.382417
------------------------------------------------------------------------------
```

Model 4-4: Robust Check 1.5: Change specification: Include regional dummies

```
. regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 afri lati east sout, r

Linear regression                               Number of obs =     100
                                                F( 12,    87) =   24.38
                                                Prob > F      =  0.0000
                                                R-squared     =  0.7448
                                                Root MSE      =  1.1499

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .6546454   .2608377     2.51   0.014     .1362022    1.173089
    giniavni |   .0001455   .0168743     0.01   0.993    -.0333939    .0336849
       ethnl |   -1.20491    .623282    -1.93   0.056    -2.443751    .0339303
        musl |  -.9149494    .369439    -2.48   0.015    -1.649249   -.1806494
     fertwdi |  -.5249383    .122576    -4.28   0.000    -.7685714   -.2813053
       lpopd |  -.1738087   .0972588    -1.79   0.077    -.3671211    .0195038
      urbwdi |   .0182519   .0113501     1.61   0.111    -.0043077    .0408115
    pavg0090 |    .036831   .0272205     1.35   0.180    -.0172727    .0909347
        afri |   .8333076   .5098631     1.63   0.106    -.1801005    1.846716
        lati |   .6229467   .4767595     1.31   0.195    -.3246645    1.570558
        east |   1.181378   .6184619     1.91   0.059    -.0478817    2.410638
        sout |    .358046    .710634     0.50   0.616    -1.054416    1.770508
       _cons |   1.112583   2.164867     0.51   0.609    -3.190324     5.41549
------------------------------------------------------------------------------
```

Model 4-4: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 gdphf giniavnf ethnlf, r

Linear regression                               Number of obs =     100
                                                F( 10,    89) =   28.13
                                                Prob > F      =  0.0000
                                                R-squared     =  0.7326
```

```
                                                      Root MSE      =  1.1637

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .6913302   .2186382     3.16   0.002     .2569008     1.12576
    giniavni |  -.0006405     .01714    -0.04   0.970    -.0346973    .0334163
       ethnl |  -.9570707   .5172448    -1.85   0.068    -1.984825    .0706838
        musl |  -1.454992   .3540317    -4.11   0.000    -2.158446   -.7515384
     fertwdi |  -.5468223   .1245469    -4.39   0.000    -.7942944   -.2993501
       lpopd |  -.1950067   .0921182    -2.12   0.037    -.3780437   -.0119697
      urbwdi |   .0152806   .0091738     1.67   0.099    -.0029476    .0335087
    pavg0090 |   .0303195   .0254008     1.19   0.236    -.0201514    .0807904
       gdphf |  (dropped)
    giniavnf |  -.1729238      .3033    -0.57   0.570    -.7755744    .4297269
      ethnlf |   .0642865   .4354101     0.15   0.883    -.8008641    .9294371
       _cons |   1.866249   1.733734     1.08   0.285    -1.578643    5.311141
------------------------------------------------------------------------------
```

Model 4-4: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090

   Huber iteration 1:  maximum difference in weights = .6169149
   Huber iteration 2:  maximum difference in weights = .11181148
   Huber iteration 3:  maximum difference in weights = .02053246
Biweight iteration 4:  maximum difference in weights = .20786925
Biweight iteration 5:  maximum difference in weights = .00993254

Robust regression                                     Number of obs =     100
                                                      F(  8,    91) =   28.38
                                                      Prob > F      =  0.0000

------------------------------------------------------------------------------
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .6702831   .2745475     2.44   0.017     .1249283    1.215638
    giniavni |   .0011004   .0162785     0.07   0.946     -.031235    .0334357
       ethnl |  -1.041473   .4936692    -2.11   0.038    -2.022087     -.06086
        musl |  -1.444441   .4062767    -3.56   0.001    -2.251459   -.6374217
     fertwdi |  -.5791517   .1328174    -4.36   0.000    -.8429772   -.3153262
       lpopd |   -.238982   .0953536    -2.51   0.014    -.4283902   -.0495738
      urbwdi |   .0136435   .0095275     1.43   0.156    -.0052817    .0325687
    pavg0090 |   .0294489   .0282477     1.04   0.300    -.0266617    .0855594
       _cons |   2.253594   2.185551     1.03   0.305    -2.087735    6.594923
------------------------------------------------------------------------------
```

Model 4-4: Robust Check 3.2: Outlier checks: Median regression

```
. qreg mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090
Iteration  1:  WLS sum of weighted deviations =  87.733394

Iteration  1: sum of abs. weighted deviations =  186.01745
Iteration  2: sum of abs. weighted deviations =  86.548857
Iteration  3: sum of abs. weighted deviations =  86.174345
Iteration  4: sum of abs. weighted deviations =  85.950911
Iteration  5: sum of abs. weighted deviations =  85.861841
Iteration  6: sum of abs. weighted deviations =  85.758363

Median regression                                   Number of obs =       100
  Raw sum of deviations   179.08 (about 3.2690001)
```

```
  Min sum of deviations 85.75836                    Pseudo R2     =    0.5211

------------------------------------------------------------------------------
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .5301947   .4316094     1.23   0.222    -.3271444    1.387534
    giniavni |  -.0070471   .0264126    -0.27   0.790    -.0595125    .0454183
       ethnl |  -.5279904   .7972052    -0.66   0.509    -2.111541     1.05556
        musl |  -1.304493   .6274664    -2.08   0.040    -2.550878   -.0581083
     fertwdi |  -.6628324   .2081046    -3.19   0.002    -1.076207   -.2494581
       lpopd |  -.3217261   .1547361    -2.08   0.040    -.6290904   -.0143617
      urbwdi |   .0162917   .0155482     1.05   0.297    -.0145929    .0471763
    pavg0090 |   .0454804   .0465282     0.98   0.331    -.0469422     .137903
       _cons |   4.035557   3.274011     1.23   0.221    -2.467862    10.53898
------------------------------------------------------------------------------
```

Model 4-4: Robust Ck 3.3: Outlier checks: Discard 2 cases hi cooksd (same as Model 4-3)

```
. regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 if ctry ~= "
> Singapore" & ctry ~= "Swaziland", r

Linear regression                                      Number of obs =      98
                                                       F(  8,    89) =   36.23
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7432
                                                       Root MSE      =  1.1305

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .6491055   .2107341     3.08   0.003     .2303814     1.06783
    giniavni |  -.0064649   .0157823    -0.41   0.683     -.037824    .0248942
       ethnl |  -.6802199   .5175454    -1.31   0.192    -1.708572    .3481317
        musl |  -1.485821   .3461863    -4.29   0.000    -2.173685   -.7979559
     fertwdi |  -.5505263   .1057435    -5.21   0.000    -.7606364   -.3404162
       lpopd |  -.1579307   .0931233    -1.70   0.093    -.3429647    .0271033
      urbwdi |   .0205506   .0082102     2.50   0.014      .004237    .0368642
    pavg0090 |   .0374038   .0242906     1.54   0.127    -.0108612    .0856688
       _cons |   1.971957   1.628994     1.21   0.229    -1.264819    5.208734
------------------------------------------------------------------------------
```

Model 4-4: Robust Check 6.3: IndV: Vary source: pavg0090 to pavg7090

```
. regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg7090, r

Linear regression                                      Number of obs =     100
                                                       F(  8,    91) =   32.29
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7275
                                                       Root MSE      =  1.1617

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .7328526   .2201549     3.33   0.001     .2955418    1.170163
    giniavni |   .0030095   .0163576     0.18   0.854    -.0294829     .035502
       ethnl |  -.8550764   .5241218    -1.63   0.106     -1.89618    .1860272
        musl |  -1.503927   .3613687    -4.16   0.000    -2.221741   -.7861121
     fertwdi |  -.6122432   .1163861    -5.26   0.000    -.8434299   -.3810566
       lpopd |  -.1906902   .0930878    -2.05   0.043    -.3755976   -.0057828
```

```
      urbwdi |   .0123681   .0083502     1.48   0.142    -.0042186    .0289548
    pavg7090 |    .003826   .0251633     0.15   0.879    -.0461577    .0538098
       _cons |   1.66443   1.738111     0.96   0.341    -1.788114    5.116974
------------------------------------------------------------------------------
```

Model 4-4: Robust Check 6.4: IndV: Vary source: pavg0090 to free7290

```
. regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi free7290, r

Linear regression                                      Number of obs =     104
                                                       F(  8,    95) =   37.09
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7376
                                                       Root MSE      =   1.156

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    .733731   .2284694     3.21   0.002      .280162      1.1873
    giniavni |   .0052749   .0156537     0.34   0.737    -.0258016    .0363515
       ethnl |  -.8604201   .4867425    -1.77   0.080    -1.826726    .1058858
        musl |   -1.50381   .3520466    -4.27   0.000    -2.202711   -.8049095
     fertwdi |  -.6629634   .1101513    -6.02   0.000    -.8816415   -.4442854
       lpopd |  -.1821687   .0915516    -1.99   0.049    -.3639217   -.0004158
      urbwdi |   .0104821    .008157     1.29   0.202    -.0057115    .0266757
    free7290 |    .018144   .0482417     0.38   0.708     -.077628    .1139159
       _cons |   1.675371   1.956088     0.86   0.394    -2.207954    5.558696
------------------------------------------------------------------------------
```

Model 4-4: Robust Ck 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)

```
. regress mysfx lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg0090, r

Linear regression                                      Number of obs =      99
                                                       F(  8,    90) =   34.72
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7355
                                                       Root MSE      =  1.1458

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |   .8190756   .2336621     3.51   0.001     .3548652    1.283286
    giniavni |  -.0026774   .0155777    -0.17   0.864    -.0336253    .0282705
       ethnl |  -.9286944   .5162779    -1.80   0.075    -1.954371    .0969819
        musl |  -1.407539    .351706    -4.00   0.000    -2.106264   -.7088133
     fertwdi |  -.5357358   .1106261    -4.84   0.000    -.7555138   -.3159578
       lpopd |  -.1890078   .0946933    -2.00   0.049    -.3771325   -.0008831
      urbwdi |   .0124245   .0077292     1.61   0.111    -.0029309    .0277798
    pavg0090 |   .0192041   .0248386     0.77   0.441    -.0301422    .0685504
       _cons |   .9312121   1.992327     0.47   0.641    -3.026894    4.889318
------------------------------------------------------------------------------
```

Model 4-4: Robust Ck 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

```
. regress mysfx lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 gdpmf, r

Linear regression                                      Number of obs =      99
                                                       F(  9,    89) =   31.64
```

```
                                                Prob > F      =  0.0000
                                                R-squared     =  0.7367
                                                Root MSE      =  1.1496

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |   .8012103   .2293465     3.49   0.001     .3455038    1.256917
    giniavni |  -.0018392   .0157165    -0.12   0.907    -.0330677    .0293892
       ethnl |  -.9656786   .5009395    -1.93   0.057    -1.961035    .0296775
        musl |  -1.417371    .351029    -4.04   0.000    -2.114858   -.7198836
     fertwdi |  -.5214357   .1160903    -4.49   0.000    -.7521047   -.2907666
       lpopd |  -.1722855    .100903    -1.71   0.091    -.3727776    .0282065
      urbwdi |   .0137145   .0077126     1.78   0.079    -.0016103    .0290392
    pavg0090 |    .016287   .0239865     0.68   0.499    -.0313737    .0639477
       gdpmf |   .4748988   .9869957     0.48   0.632    -1.486241    2.436038
       _cons |   .8372129   2.066055     0.41   0.686    -3.267993    4.942419
------------------------------------------------------------------------------
```

Model 4-4: Robust Ck 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)

```
. regress mysfx lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg0090, r

Linear regression                               Number of obs =     100
                                                F(  8,    91) =   31.20
                                                Prob > F      =  0.0000
                                                R-squared     =  0.7209
                                                Root MSE      =  1.1758

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .6999183   .2191436     3.19   0.002     .2646163     1.13522
    giniavni |   -.001333   .0161987    -0.08   0.935    -.0335097    .0308437
    ethnannx |  -.3558139   .5647063    -0.63   0.530    -1.477534    .7659058
        musl |  -1.357087   .3683152    -3.68   0.000      -2.0887   -.6254737
     fertwdi |  -.6314524    .107853    -5.85   0.000    -.8456891   -.4172157
       lpopd |  -.1979108   .0970385    -2.04   0.044    -.3906658   -.0051558
      urbwdi |   .0159258   .0085197     1.87   0.065    -.0009975     .032849
    pavg0090 |   .0223392   .0258945     0.86   0.391     -.029097    .0737755
       _cons |   1.957276      1.868     1.05   0.298    -1.753276    5.667827
------------------------------------------------------------------------------
```

Model 4-4: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

```
. regress mysfx lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg0090 ethnannf,
>  r

Linear regression                               Number of obs =     100
                                                F(  9,    90) =   27.44
                                                Prob > F      =  0.0000
                                                R-squared     =  0.7209
                                                Root MSE      =  1.1823

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .7127898   .2584706     2.76   0.007     .1992929    1.226287
    giniavni |  -.0008601   .0169112    -0.05   0.960     -.034457    .0327369
```

```
    ethnannx |  -.3481323   .5657516    -0.62   0.540    -1.472097     .775832
        musl |  -1.359177   .3708796    -3.66   0.000    -2.095994   -.6223596
     fertwdi |  -.6296998    .108992    -5.78   0.000    -.8462315   -.4131682
       lpopd |  -.1971065   .0975574    -2.02   0.046    -.3909213   -.0032918
      urbwdi |   .0155226   .0096468     1.61   0.111    -.0036424    .0346876
    pavg0090 |   .0223084   .0259966     0.86   0.393    -.0293385    .0739552
    ethnannf |    .072723   .4861199     0.15   0.881    -.8930391    1.038485
       _cons |   1.836411   2.197173     0.84   0.405    -2.528657    6.201478
------------------------------------------------------------------------------
```

Table 2.4, Model 4-5: Long-Term Democracy and Female Schooling, Excl. Fertility

Model 4-5: Female schooling predicted by 6 baseline variables excluding fertility

```
. regress mysfx lgdph giniavni ethnl musl lpopd urbwdi, r

Linear regression                                      Number of obs =     105
                                                       F(  6,    98) =   34.11
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6652
                                                       Root MSE      =  1.3169

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   1.290357   .2726067     4.73   0.000      .749378    1.831336
    giniavni |  -.0130063   .0165241    -0.79   0.433    -.0457979    .0197853
       ethnl |  -1.395689   .5300826    -2.63   0.010     -2.44762    -.343757
        musl |  -2.542096   .3397031    -7.48   0.000    -3.216226   -1.867967
       lpopd |  -.0428688   .1060032    -0.40   0.687    -.2532286     .167491
      urbwdi |    .020806   .0092118     2.26   0.026     .0025255    .0390866
       _cons |  -5.292901   1.818562    -2.91   0.004    -8.901778   -1.684023
------------------------------------------------------------------------------
```

Model 4-5: Female schooling pred. by 6 baseline var. (excl. fert.) and long-term democracy

(Same as Model 3-4, robustness check 1.1)

```
. regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg0090, r

Linear regression                                      Number of obs =     100
                                                       F(  7,    92) =   31.04
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6739
                                                       Root MSE      =   1.264

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   1.042445   .2827902     3.69   0.000     .4807989     1.60409
    giniavni |  -.0178605   .0162292    -1.10   0.274     -.050093     .014372
       ethnl |  -1.592719   .5184027    -3.07   0.003    -2.622311   -.5631262
        musl |  -2.131754   .3467471    -6.15   0.000    -2.820423   -1.443084
       lpopd |  -.1052752    .108484    -0.97   0.334    -.3207338    .1101834
      urbwdi |   .0231851   .0101342     2.29   0.024     .0030576    .0433125
    pavg0090 |   .0763853   .0265929     2.87   0.005     .0235696     .129201
       _cons |  -2.843389   1.957358    -1.45   0.150    -6.730871    1.044092
------------------------------------------------------------------------------
```

Model 4-5: Means and SDs of mean years of female schooling and long-term democracy

```
. summarize mysfx

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       mysfx |       105     3.64511    2.209273   .1377345      9.045

. summarize pavg0090

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    pavg0090 |       100     -3.0848    5.295036        -10         10
```

Model 4-5: How much would female schooling rise if long-term democracy rose 1 SD?

```
. estsimp regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg0090, r

Linear regression                                      Number of obs =     100
                                                       F(  7,    92) =   31.04
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6739
                                                       Root MSE      =   1.264

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   1.042445   .2827902     3.69   0.000     .4807989     1.60409
    giniavni |  -.0178605   .0162292    -1.10   0.274     -.050093     .014372
       ethnl |  -1.592719   .5184027    -3.07   0.003    -2.622311   -.5631262
        musl |  -2.131754   .3467471    -6.15   0.000    -2.820423   -1.443084
       lpopd |  -.1052752    .108484    -0.97   0.334    -.3207338    .1101834
      urbwdi |   .0231851   .0101342     2.29   0.024     .0030576    .0433125
    pavg0090 |   .0763853   .0265929     2.87   0.005     .0235696     .129201
       _cons |  -2.843389   1.957358    -1.45   0.150    -6.730871    1.044092
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....
% of simulations completed: 12% 25% 37% 50% 62% 75% 87% 100%


Simulating sigma-squared.  Please wait


Number of simulations  : 1000
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9

. setx mean
. simqi, fd(ev) changex(pavg0090 -3.0848 2.2102)

First Difference: pavg0090 -3.0848 2.2102

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+-----------------------------------------------
                dE(mysfx) |   .4003669     .1379543     .1173649    .6715686
```

Model 4-5: Robustness checks

Model 4-5: Robust Check 1.4: Change specification: Include geographical variables

```
. regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg0090 airdist popcrgs latcapab, r
```

```
Linear regression                               Number of obs =     100
                                                F( 10,    89) =   26.76
                                                Prob > F      =  0.0000
                                                R-squared     =  0.6967
                                                Root MSE      =  1.2395

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .9159039   .2957455     3.10   0.003      .328264    1.503544
    giniavni |  -.0178454   .0149406    -1.19   0.235    -.0475321    .0118413
       ethnl |  -1.394012   .5640035    -2.47   0.015    -2.514675    -.273349
        musl |  -2.298516    .358678    -6.41   0.000    -3.011202   -1.585831
       lpopd |  -.0804349   .1145122    -0.70   0.484    -.3079681    .1470983
      urbwdi |   .0259027   .0102208     2.53   0.013     .0055943    .0462112
    pavg0090 |   .0682969   .0250971     2.72   0.008     .0184295    .1181643
     airdist |   .0001115   .0000803     1.39   0.169    -.0000481    .0002711
     popcrgs |   .0020711   .0052329     0.40   0.693    -.0083265    .0124687
    latcapab |   .0284119   .0134166     2.12   0.037     .0017534    .0550704
       _cons |  -3.350296   1.870542    -1.79   0.077    -7.067024    .3664317
------------------------------------------------------------------------------
```

Model 4-5: Robust Check 1.5: Change specification: Include regional dummies

```
. regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg0090 afri lati east sout,
>  r

Linear regression                               Number of obs =     100
                                                F( 11,    88) =   22.11
                                                Prob > F      =  0.0000
                                                R-squared     =  0.7027
                                                Root MSE      =   1.234

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .8956539   .2893432     3.10   0.003     .3206452    1.470663
    giniavni |  -.0108557   .0180195    -0.60   0.548    -.0466657    .0249542
       ethnl |  -1.494919   .6557804    -2.28   0.025    -2.798145   -.1916933
        musl |  -1.248268    .356887    -3.50   0.001    -1.957506   -.5390299
       lpopd |  -.0923921   .1090472    -0.85   0.399    -.3091004    .1243163
      urbwdi |   .0272872   .0123375     2.21   0.030     .0027691    .0518054
    pavg0090 |   .0696575   .0291873     2.39   0.019     .0116539    .1276612
        afri |   .7210597   .5455271     1.32   0.190    -.3630607     1.80518
        lati |   1.001913   .4840842     2.07   0.041     .0398969    1.963928
        east |   1.724662   .6099802     2.83   0.006     .5124541    2.936869
        sout |   .6457158   .6764653     0.95   0.342    -.6986168    1.990048
       _cons |  -3.296418   2.117364    -1.56   0.123    -7.504234    .9113978
------------------------------------------------------------------------------
```

Model 4-5: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg0090 gdphf giniavnf ethnlf, r

Linear regression                               Number of obs =     100
                                                F(  9,    90) =   25.41
                                                Prob > F      =  0.0000
                                                R-squared     =  0.6835
                                                Root MSE      =  1.2589
```

```
------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |     1.03389   .2714847     3.81   0.000     .4945385    1.573242
    giniavni |  -.0227013   .0165523    -1.37   0.174    -.0555853    .0101827
       ethnl |  -1.591276   .5118099    -3.11   0.003    -2.608076   -.5744762
        musl |  -2.075249   .3350748    -6.19   0.000    -2.740933   -1.409564
       lpopd |  -.1188107   .1042635    -1.14   0.258    -.3259483    .0883269
      urbwdi |   .0255812   .0103007     2.48   0.015     .0051171    .0460453
    pavg0090 |   .0685798   .0289907     2.37   0.020     .0109846     .126175
       gdphf |  (dropped)
    giniavnf |  -.4381556    .313853    -1.40   0.166    -1.061679    .1853681
      ethnlf |    -.33075   .6825924    -0.48   0.629    -1.686839    1.025339
       _cons |  -2.524307   1.977019    -1.28   0.205       -6.452    1.403385
------------------------------------------------------------------------------
```

Model 4-5: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg0090

   Huber iteration 1:  maximum difference in weights = .49853886
   Huber iteration 2:  maximum difference in weights = .07311224
   Huber iteration 3:  maximum difference in weights = .0180958
Biweight iteration 4:  maximum difference in weights = .15084981
Biweight iteration 5:  maximum difference in weights = .00959909

Robust regression                                     Number of obs =     100
                                                      F(  7,    92) =   23.37
                                                      Prob > F      =  0.0000

------------------------------------------------------------------------------
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    1.050967   .2921282     3.60   0.001     .4707752    1.631159
    giniavni |  -.0200545   .0175572    -1.14   0.256    -.0549246    .0148156
       ethnl |  -1.644466   .5259276    -3.13   0.002    -2.689004   -.5999288
        musl |  -2.067991   .4175771    -4.95   0.000    -2.897335   -1.238646
       lpopd |   -.138032   .1039042    -1.33   0.187    -.3443947    .0683307
      urbwdi |   .0219657   .0103951     2.11   0.037     .0013202    .0426112
    pavg0090 |   .0748633   .0293856     2.55   0.013      .016501    .1332256
       _cons |  -2.682734   2.089763    -1.28   0.202    -6.833184    1.467716
------------------------------------------------------------------------------
```

Model 4-5: Robust Check 3.2: Outlier checks: Median regression

```
. qreg mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg0090

Iteration  1:  WLS sum of weighted deviations =  99.736993
Iteration  1: sum of abs. weighted deviations =  101.60194
Iteration  2: sum of abs. weighted deviations =  97.549535
Iteration  3: sum of abs. weighted deviations =  97.155441
Iteration  4: sum of abs. weighted deviations =  97.085051
Iteration  5: sum of abs. weighted deviations =  97.005859
Iteration  6: sum of abs. weighted deviations =  96.767022
Iteration  7: sum of abs. weighted deviations =  96.750093
Iteration  8: sum of abs. weighted deviations =  96.744498
Iteration  9: sum of abs. weighted deviations =  96.691205
Iteration 10: sum of abs. weighted deviations =  96.679637
Iteration 11: sum of abs. weighted deviations =  96.672829
Iteration 12: sum of abs. weighted deviations =  96.672518
```

```
Median regression                                       Number of obs =       100
  Raw sum of deviations   179.08 (about 3.2690001)
  Min sum of deviations 96.67252                        Pseudo R2     =    0.4602

------------------------------------------------------------------------------
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    1.004988   .3111978     3.23   0.002      .386922    1.623053
    giniavni |    -.042718   .0186803    -2.29   0.025    -.0798186   -.0056173
       ethnl |   -1.018123   .5739075    -1.77   0.079    -2.157953    .1217069
        musl |   -2.131419   .4447943    -4.79   0.000    -3.014819   -1.248019
       lpopd |   -.2099231   .1093241    -1.92   0.058    -.4270502    .0072041
      urbwdi |    .0384718   .0112989     3.40   0.001     .0160312    .0609123
    pavg0090 |    .0574465   .0319562     1.80   0.076    -.0060213    .1209143
       _cons |   -2.205016   2.193846    -1.01   0.317    -6.562184    2.152151
------------------------------------------------------------------------------
```

Model 4-5: Robust Check 3.3: Outlier checks: Discard 2 cases highst cooksd

```
. regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg0090 if ctry ~= "Singapore" & ctry ~=
"Oman", r

Linear regression                                       Number of obs =      98
                                                        F(  7,    90) =   33.64
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.6925
                                                        Root MSE      =  1.2338

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    1.197694   .2723936     4.40   0.000      .656537    1.738852
    giniavni |   -.0196562   .0161048    -1.22   0.225    -.0516511    .0123387
       ethnl |   -1.495045   .5185907    -2.88   0.005    -2.525315   -.4647736
        musl |    -2.13755   .3389371    -6.31   0.000    -2.810908   -1.464193
       lpopd |   -.0848794   .1089188    -0.78   0.438    -.3012655    .1315068
      urbwdi |     .022321   .0097248     2.30   0.024      .003001    .0416411
    pavg0090 |    .0676842   .0264074     2.56   0.012     .0152213    .1201472
       _cons |   -3.992695   1.898583    -2.10   0.038    -7.764561   -.2208287
------------------------------------------------------------------------------
```

Model 4-5: Robust Check 6.3: IndV: Vary source: pavg0090 to pavg7090

```
. regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg7090, r

Linear regression                                       Number of obs =     100
                                                        F(  7,    92) =   27.01
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.6596
                                                        Root MSE      =  1.2914

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    1.131883    .279354     4.05   0.000     .5770623    1.686705
    giniavni |   -.0187867   .0168786    -1.11   0.269    -.0523091    .0147356
       ethnl |   -1.491345   .5371414    -2.78   0.007    -2.558154   -.4245354
        musl |   -2.244517   .3560183    -6.30   0.000      -2.9516   -1.537434
       lpopd |   -.0950399   .1115193    -0.85   0.396     -.316527    .1264471
```

```
      urbwdi |   .0212751   .0098683     2.16   0.034     .0016759    .0408744
    pavg7090 |   .0490544   .0270176     1.82   0.073    -.0046049    .1027137
       _cons |  -3.516562   2.039857    -1.72   0.088    -7.567894    .5347702
------------------------------------------------------------------------------
```

Model 4-5: Robust Check 6.4: IndV: Vary source: pavg0090 to free7290

```
. regress mysfx lgdph giniavni ethnl musl lpopd urbwdi free7290, r

Linear regression                                      Number of obs =     104
                                                       F(  7,    96) =   29.44
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6558
                                                       Root MSE      =  1.3171

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   1.150129   .2898932     3.97   0.000      .574696    1.725563
    giniavni |  -.0190987   .0170478    -1.12   0.265    -.0529383     .014741
       ethnl |  -1.427728   .5311492    -2.69   0.008    -2.482051   -.3734053
        musl |  -2.426489   .3482383    -6.97   0.000    -3.117737   -1.735242
       lpopd |  -.0858695   .1139303    -0.75   0.453    -.3120194    .1402805
      urbwdi |   .0218554   .0094413     2.31   0.023     .0031145    .0405963
    free7290 |  -.0718811   .0559759    -1.28   0.202    -.1829924    .0392302
       _cons |  -3.149684   2.435416    -1.29   0.199    -7.983945    1.684578
------------------------------------------------------------------------------
```

Model 4-5: Robust Ck 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)

```
. regress mysfx lgdpmx giniavni ethnl musl lpopd urbwdi pavg0090, r

Linear regression                                      Number of obs =      99
                                                       F(  7,    91) =   32.05
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6843
                                                       Root MSE      =  1.2449

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |   1.209181   .2775092     4.36   0.000     .6579425    1.760419
    giniavni |  -.0203931   .0163657    -1.25   0.216    -.0529014    .0121153
       ethnl |  -1.493128   .5320334    -2.81   0.006    -2.549947   -.4363089
        musl |  -2.002818   .3452299    -5.80   0.000    -2.688575   -1.317061
       lpopd |  -.0986571   .1115036    -0.88   0.379    -.3201454    .1228312
      urbwdi |   .0201306   .0093103     2.16   0.033     .0016367    .0386244
    pavg0090 |   .0544402   .0288849     1.88   0.063    -.0029361    .1118166
       _cons |  -4.040725   2.055018    -1.97   0.052    -8.122765    .0413151
------------------------------------------------------------------------------
```

Model 4-5: Robust Ck 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

```
. regress mysfx lgdpmx giniavni ethnl musl lpopd urbwdi pavg0090 gdpmf, r

Linear regression                                      Number of obs =      99
                                                       F(  8,    90) =   28.90
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6896
```

```
                                                      Root MSE      =  1.2412

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |   1.150392   .2716105     4.24   0.000     .6107906    1.689994
    giniavni |  -.0176676   .0165215    -1.07   0.288    -.0504904    .0151552
       ethnl |  -1.538694   .5120497    -3.00   0.003     -2.55597   -.5214179
        musl |  -1.990225   .3471949    -5.73   0.000    -2.679988   -1.300462
       lpopd |  -.0689065   .1137792    -0.61   0.546    -.2949487    .1571357
      urbwdi |   .0223848   .0093911     2.38   0.019     .0037277    .0410419
    pavg0090 |   .0464205   .0271855     1.71   0.091    -.0075882    .1004292
       gdpmf |   .9872787   1.153638     0.86   0.394    -1.304625    3.279182
       _cons |  -3.960241   2.061407    -1.92   0.058    -8.055586     .135105
------------------------------------------------------------------------------
```

Model 4-5: Robust Ck 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)

```
. regress mysfx lgdph giniavni ethnannx musl lpopd urbwdi pavg0090, r

Linear regression                                     Number of obs =     100
                                                      F(  7,    92) =   27.32
                                                      Prob > F      =  0.0000
                                                      R-squared     =  0.6422
                                                      Root MSE      =   1.324

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   1.138523   .2841872     4.01   0.000     .5741024    1.702943
    giniavni |   -.024722   .0173556    -1.42   0.158    -.0591918    .0097478
    ethnannx |  -.7159131   .6224255    -1.15   0.253    -1.952104    .5202776
        musl |    -2.1118   .3720521    -5.68   0.000    -2.850727   -1.372872
       lpopd |  -.0914614   .1224153    -0.75   0.457    -.3345888    .1516661
      urbwdi |   .0279598   .0106481     2.63   0.010     .0068119    .0491078
    pavg0090 |   .0675965   .0296896     2.28   0.025     .0086303    .1265627
       _cons |  -3.787092   2.082959    -1.82   0.072    -7.924029    .3498442
------------------------------------------------------------------------------
```

Model 4-5: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

```
. regress mysfx lgdph giniavni ethnannx musl lpopd urbwdi pavg0090 ethnannf, r

Linear regression                                     Number of obs =     100
                                                      F(  8,    91) =   23.73
                                                      Prob > F      =  0.0000
                                                      R-squared     =  0.6436
                                                      Root MSE      =  1.3287

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   1.198138   .3115487     3.85   0.000     .5792844    1.816991
    giniavni |  -.0219707   .0182231    -1.21   0.231    -.0581687    .0142272
    ethnannx |   -.671507    .615024    -1.09   0.278    -1.893177    .5501627
        musl |  -2.111777   .3739307    -5.65   0.000    -2.854544   -1.369009
       lpopd |  -.0888583   .1252409    -0.71   0.480     -.337634    .1599174
      urbwdi |   .0257267   .0117446     2.19   0.031     .0023975    .0490559
    pavg0090 |   .0667962   .0296366     2.25   0.027     .0079267    .1256656
```

```
    ethnannf |   .3720017     .61201     0.61   0.545    -.8436809    1.587684
       _cons |  -4.323802   2.323317    -1.86   0.066    -8.938785    .2911811
------------------------------------------------------------------------------
```

Table 2.4, Model 4-6: Long-Term Democracy and Family Planning, Excl. Fertility

Model 4-6: Bivariate correlations among independent variables

```
. correlate rtot lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090
(obs=86)

             |     rtot    lgdph giniavni    ethnl     musl  fertwdi    lpopd
-------------+---------------------------------------------------------------
        rtot |   1.0000
       lgdph |   0.1591   1.0000
    giniavni |  -0.0709  -0.0049   1.0000
       ethnl |  -0.1376  -0.5301   0.2274   1.0000
        musl |  -0.2480   0.3329  -0.2998  -0.2512   1.0000
     fertwdi |  -0.5853  -0.6209   0.1386   0.5170   0.0715   1.0000
       lpopd |   0.4596   0.1476  -0.4102  -0.2019  -0.1271  -0.4060   1.0000
      urbwdi |   0.0405   0.8154  -0.0009  -0.5257   0.3099  -0.5623   0.0631
    pavg0090 |   0.3889   0.2562   0.1651  -0.0294  -0.3035  -0.4540   0.1681

             |   urbwdi pavg0090
-------------+------------------
      urbwdi |   1.0000
    pavg0090 |   0.1202   1.0000
```

Model 4-6: Family planning effort predicted by six baseline variables excluding fertility

```
. regress rtot lgdph giniavni ethnl musl lpopd urbwdi, r

Linear regression                                      Number of obs =      88
                                                       F(  6,    81) =    7.87
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.3014
                                                       Root MSE      =  21.895

------------------------------------------------------------------------------
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   8.625587   5.000478     1.72   0.088    -1.323795    18.57497
    giniavni |   .0952713   .3219923     0.30   0.768    -.5453923     .735935
       ethnl |  -5.887607   8.551977    -0.69   0.493    -22.90336    11.12814
        musl |  -16.76848   8.490191    -1.98   0.052    -33.66129    .1243384
       lpopd |   7.168345   2.222191     3.23   0.002     2.746883    11.58981
      urbwdi |  -.2102159   .1816032    -1.16   0.250    -.5715492    .1511174
       _cons |  -28.16287    29.7166    -0.95   0.346    -87.28958    30.96385
------------------------------------------------------------------------------
```

Model 4-6: Family planning effort predicted by 6 baseline var and long-term democracy

```
. regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg0090, r

Linear regression                                      Number of obs =      86
                                                       F(  7,    78) =   11.21
                                                       Prob > F      =  0.0000
```

```
                                                R-squared     =  0.3368
                                                Root MSE      =  21.514

------------------------------------------------------------------------------
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   4.629478   5.691518     0.81   0.418    -6.701464    15.96042
    giniavni |    .044403   .3157479     0.14   0.889    -.5842028    .6730088
       ethnl |  -7.063543   8.428656    -0.84   0.405    -23.84371    9.716622
        musl |  -9.978826   8.606782    -1.16   0.250    -27.11361     7.15596
       lpopd |   6.640414   2.059533     3.22   0.002     2.540199    10.74063
      urbwdi |  -.1565379    .198206    -0.79   0.432    -.5511357    .2380599
    pavg0090 |   1.223882   .5840023     2.10   0.039     .0612222    2.386541
       _cons |   6.644863    36.0837     0.18   0.854    -65.19227    78.48199
------------------------------------------------------------------------------
```

Model 4-6: Means and SDs of family planning effort and long-term democracy

```
. summarize rtot

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        rtot |        88       53.85    25.27719          0        104

. summarize pavg0090

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    pavg0090 |       100     -3.0848    5.295036        -10         10
```

Model 4-6: How much would family planning rise if long-term democracy rose 1 SD?

```
. estsimp regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg0090, r

Linear regression                               Number of obs =      86
                                                F(  7,    78) =   11.21
                                                Prob > F      =  0.0000
                                                R-squared     =  0.3368
                                                Root MSE      =  21.514

------------------------------------------------------------------------------
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   4.629478   5.691518     0.81   0.418    -6.701464    15.96042
    giniavni |    .044403   .3157479     0.14   0.889    -.5842028    .6730088
       ethnl |  -7.063543   8.428656    -0.84   0.405    -23.84371    9.716622
        musl |  -9.978826   8.606782    -1.16   0.250    -27.11361     7.15596
       lpopd |   6.640414   2.059533     3.22   0.002     2.540199    10.74063
      urbwdi |  -.1565379    .198206    -0.79   0.432    -.5511357    .2380599
    pavg0090 |   1.223882   .5840023     2.10   0.039     .0612222    2.386541
       _cons |   6.644863    36.0837     0.18   0.854    -65.19227    78.48199
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....
% of simulations completed: 12% 25% 37% 50% 62% 75% 87% 100%


Simulating sigma-squared.  Please wait
```

```
Number of simulations  : 1000
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9

. setx mean
. simqi, fd(ev) changex(pavg0090 -3.0848 2.2102)

First Difference: pavg0090 -3.0848 2.2102

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+-----------------------------------------------
                   dE(rtot) |   6.471276     3.177181     .2872276    12.86457
```

Model 4-6: Robustness checks

Model 4-6: Robust Check 1.1b: Change specification: Include fertility

```
. regress rtot lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090, r

Linear regression                                      Number of obs =      86
                                                       F(  8,    77) =   21.35
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.5147
                                                       Root MSE      =  18.524

------------------------------------------------------------------------------
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -1.517431   4.709663    -0.32   0.748    -10.89557    7.860707
    giniavni |   .3060573   .2737682     1.12   0.267    -.2390849    .8511994
       ethnl |   6.128111    7.29561     0.84   0.404    -8.399304    20.65553
        musl |   1.198649   7.219411     0.17   0.869    -13.17703    15.57433
     fertwdi |  -11.14341   1.961483    -5.68   0.000    -15.04922   -7.237598
       lpopd |   4.385131   1.705927     2.57   0.012     .9881975    7.782065
      urbwdi |  -.3395442   .1402032    -2.42   0.018    -.6187245   -.0603638
    pavg0090 |   .3000824   .5527935     0.54   0.589    -.8006701    1.400835
       _cons |   100.9519   36.74505     2.75   0.007     27.78318    174.1207
------------------------------------------------------------------------------
```

Model 4-6: Robust Check 1.2: Change specification: Include mean yrs of female schooling

```
. regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg0090 mysfx, r

Linear regression                                      Number of obs =      86
                                                       F(  8,    77) =   12.66
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.3758
                                                       Root MSE      =  21.008

------------------------------------------------------------------------------
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   1.075865   5.110238     0.21   0.834     -9.09992    11.25165
    giniavni |   .1082917    .314729     0.34   0.732    -.5184138    .7349971
       ethnl |  -1.171669   8.669614    -0.14   0.893    -18.43508    16.09174
        musl |   -1.98425   8.639847    -0.23   0.819    -19.18838    15.21988
       lpopd |   7.028795   1.954128     3.60   0.001     3.137628    10.91996
      urbwdi |  -.2816842   .1936517    -1.45   0.150    -.6672939    .1039256
    pavg0090 |   .8805265   .5892747     1.49   0.139    -.2928693    2.053922
```

```
       mysfx |   4.127169   1.579018     2.61   0.011     .9829422    7.271396
       _cons |    14.9509   32.52503     0.46   0.647    -49.81471    79.71651
------------------------------------------------------------------------------
```

Model 4-6: Robust Check 1.3: Change specification: Include female literacy

```
. regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg0090 litfewdi, r

Linear regression                                      Number of obs =      86
                                                       F(  8,    77) =   10.56
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.3569
                                                       Root MSE      =  21.324

------------------------------------------------------------------------------
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   2.101522   5.654612     0.37   0.711     -9.15825    13.36129
    giniavni |    .043133   .3031899     0.14   0.887    -.5605952    .6468612
       ethnl |  -1.355865   9.096111    -0.15   0.882    -19.46854    16.75681
        musl |   -3.50477   9.350632    -0.37   0.709    -22.12426    15.11472
       lpopd |   6.810037   2.010535     3.39   0.001     2.806551    10.81352
      urbwdi |  -.2163825   .1889894    -1.14   0.256    -.5927085    .1599435
    pavg0090 |   .9912785   .6011508     1.65   0.103    -.2057657    2.188323
    litfewdi |   .2215905   .1321372     1.68   0.098    -.0415284    .4847094
       _cons |   11.18168   34.40446     0.33   0.746    -57.32636    79.68972
------------------------------------------------------------------------------
```

Model 4-6: Robust Check 1.4: Change specification: Include geographical variables

```
. regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg0090 airdist popcrgs latcapab, r

Linear regression                                      Number of obs =      86
                                                       F( 10,    75) =    8.47
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.3773
                                                       Root MSE      =  21.261

------------------------------------------------------------------------------
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   6.410202   5.758036     1.11   0.269    -5.060395     17.8808
    giniavni |   .0983877   .3141741     0.31   0.755    -.5274792    .7242546
       ethnl |   2.270798   9.182862     0.25   0.805     -16.0224     20.564
        musl |  -17.08132   8.772401    -1.95   0.055    -34.55684     .394198
       lpopd |   5.439667   2.190533     2.48   0.015     1.075901    9.803432
      urbwdi |  -.2212496   .2069205    -1.07   0.288    -.6334564    .1909572
    pavg0090 |   1.241478   .6132087     2.02   0.046      .019904    2.463053
     airdist |  -.0024964   .0012466    -2.00   0.049    -.0049797    -.000013
     popcrgs |   .0248017   .0934989     0.27   0.792    -.1614577     .211061
    latcapab |    .336132   .2132316     1.58   0.119    -.0886471    .7609111
       _cons |   1.000769   34.50968     0.03   0.977    -67.74603    69.74757
------------------------------------------------------------------------------
```

Model 4-6: Robust Check 1.5: Change specification: Include regional dummies

```
. regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg0090 afri lati east sout,
> r
```

```
Linear regression                                       Number of obs =      86
                                                        F( 11,    74) =   13.39
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.3602
                                                        Root MSE      =  21.695

------------------------------------------------------------------------------
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   6.474515   5.866961     1.10   0.273     -5.21566    18.16469
    giniavni |    .009269   .3225056     0.03   0.977    -.6333373    .6518754
       ethnl |  -2.192588   11.20365    -0.20   0.845    -24.51635    20.13118
        musl |  -4.360696   6.530278    -0.67   0.506    -17.37256    8.651167
       lpopd |   6.609219   2.182655     3.03   0.003     2.260185    10.95825
      urbwdi |  -.2068907   .1932425    -1.07   0.288    -.5919347    .1781534
    pavg0090 |   .9071028   .6303495     1.44   0.154    -.3488961    2.163102
        afri |   5.665735   9.884761     0.57   0.568    -14.03008    25.36155
        lati |   13.87196   7.925678     1.75   0.084    -1.920294    29.66422
        east |   4.771012   10.93667     0.44   0.664    -17.02077     26.5628
        sout |   15.41887   10.93571     1.41   0.163    -6.371008    37.20875
       _cons |  -14.58029   41.41566    -0.35   0.726     -97.1028    67.94222
------------------------------------------------------------------------------
```

Model 4-6: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg0090 gdphf giniavnf ethnlf
> , r

Linear regression                                       Number of obs =      86
                                                        F(  9,    76) =   11.31
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.4555
                                                        Root MSE      =  19.751

------------------------------------------------------------------------------
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   4.575183   4.800635     0.95   0.344    -4.986111    14.13648
    giniavni |  -.1581808   .3376168    -0.47   0.641    -.8306029    .5142413
       ethnl |   -9.36996   8.615474    -1.09   0.280    -26.52916    7.789243
        musl |  -10.92549   7.719022    -1.42   0.161    -26.29925    4.448279
       lpopd |   6.153037   2.077173     2.96   0.004     2.015987    10.29009
      urbwdi |  -.0459033   .1964258    -0.23   0.816    -.4371191    .3453125
    pavg0090 |   .7750918   .5677833     1.37   0.176    -.3557466     1.90593
       gdphf |  (dropped)
    giniavnf |  -24.32819   6.113629    -3.98   0.000    -36.50454   -12.15184
      ethnlf |  -2.366193   10.13818    -0.23   0.816    -22.55813    17.82574
       _cons |    17.2761   33.77766     0.51   0.611    -49.99793    84.55014
------------------------------------------------------------------------------
```

Model 4-6: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg rtot lgdph giniavni ethnl musl lpopd urbwdi pavg0090

   Huber iteration 1:  maximum difference in weights = .48642157
   Huber iteration 2:  maximum difference in weights = .07457928
   Huber iteration 3:  maximum difference in weights = .01808915
Biweight iteration 4:  maximum difference in weights = .14172906
Biweight iteration 5:  maximum difference in weights = .01213342
Biweight iteration 6:  maximum difference in weights = .00329368
```

```
Robust regression                                   Number of obs =      86
                                                    F(  7,    78) =    4.52
                                                    Prob > F      =  0.0003

------------------------------------------------------------------------------
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   4.393444   5.606055     0.78   0.436    -6.767354    15.55424
    giniavni |   .0497926   .3560521     0.14   0.889    -.6590527    .7586378
       ethnl |  -7.939219   10.23948    -0.78   0.440    -28.32446    12.44602
        musl |  -8.194941   8.491041    -0.97   0.337    -25.09931    8.709423
       lpopd |   6.558351   2.150848     3.05   0.003     2.276341    10.84036
      urbwdi |  -.1531262   .1956395    -0.78   0.436    -.5426145     .236362
    pavg0090 |   1.189187   .5656721     2.10   0.039       .06302    2.315353
       _cons |   8.883075    40.0279     0.22   0.825    -70.80635     88.5725
------------------------------------------------------------------------------
```

Model 4-6: Robust Check 3.2: Outlier checks: Median regression

```
. qreg rtot lgdph giniavni ethnl musl lpopd urbwdi pavg0090

Iteration  1:  WLS sum of weighted deviations =  1427.1582
Iteration  1: sum of abs. weighted deviations =  1636.4744
Iteration  2: sum of abs. weighted deviations =  1428.4288
Iteration  3: sum of abs. weighted deviations =  1427.0251
Iteration  4: sum of abs. weighted deviations =  1426.0644
Iteration  5: sum of abs. weighted deviations =  1420.0328
Iteration  6: sum of abs. weighted deviations =  1418.3551
Iteration  7: sum of abs. weighted deviations =  1408.9293
Iteration  8: sum of abs. weighted deviations =  1407.8195
Iteration  9: sum of abs. weighted deviations =  1407.3911
Iteration 10: sum of abs. weighted deviations =  1407.1829
Iteration 11: sum of abs. weighted deviations =  1406.4416

Median regression                                   Number of obs =        86
  Raw sum of deviations   1758.3 (about 54.200001)
  Min sum of deviations 1406.442                    Pseudo R2     =    0.2001

------------------------------------------------------------------------------
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   9.488229   8.478269     1.12   0.267    -7.390708    26.36717
    giniavni |  -.1878604   .5405899    -0.35   0.729    -1.264092    .8883714
       ethnl |  -11.33104    15.7692    -0.72   0.475     -42.7251    20.06302
        musl |  -14.11056   11.66839    -1.21   0.230    -37.34054    9.119431
       lpopd |   4.663838   3.238605     1.44   0.154    -1.783728     11.1114
      urbwdi |    -.37004   .3011173    -1.23   0.223    -.9695185    .2294386
    pavg0090 |   .6641524    .850913     0.78   0.437    -1.029885     2.35819
       _cons |   1.012776   59.59129     0.02   0.986    -117.6244    119.6499
------------------------------------------------------------------------------
```

Model 4-6: Robust Check 3.3: Outlier checks: Discard 2 cases highst cooksd

```
. regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg0090 if ctry ~= "Kuwait" &
>  ctry ~= "Namibia", r

Linear regression                                   Number of obs =      84
                                                    F(  7,    76) =   10.95
                                                    Prob > F      =  0.0000
                                                    R-squared     =  0.3558
                                                    Root MSE      =  20.542
```

rtot	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
lgdph	5.635278	5.810126	0.97	0.335	-5.936592	17.20715
giniavni	.1910593	.3106656	0.62	0.540	-.4276848	.8098035
ethnl	-6.409667	8.321342	-0.77	0.444	-22.98306	10.16372
musl	-6.388204	8.211733	-0.78	0.439	-22.74329	9.96688
lpopd	6.674753	2.07023	3.22	0.002	2.551532	10.79797
urbwdi	-.1575689	.1994719	-0.79	0.432	-.5548515	.2397138
pavg0090	1.262394	.5884561	2.15	0.035	.0903826	2.434406
_cons	-7.286414	35.53701	-0.21	0.838	-78.06451	63.49168

Model 4-6: Robust Check 6.3: IndV: Vary source: pavg0090 to pavg7090

```
. regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg7090, r

Linear regression                               Number of obs =      86
                                                F(  7,    78) =   12.92
                                                Prob > F      =  0.0000
                                                R-squared     =  0.3659
                                                Root MSE      =  21.038
```

rtot	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
lgdph	4.176886	5.00106	0.84	0.406	-5.779459	14.13323
giniavni	-.0789247	.3132903	-0.25	0.802	-.7026377	.5447883
ethnl	-5.084072	8.278045	-0.61	0.541	-21.56439	11.39625
musl	-9.490148	8.397154	-1.13	0.262	-26.2076	7.227302
lpopd	6.237453	1.946976	3.20	0.002	2.361321	10.11358
urbwdi	-.1614276	.1882468	-0.86	0.394	-.5361982	.2133429
pavg7090	1.430619	.445627	3.21	0.002	.5434438	2.317794
_cons	17.62329	32.41562	0.54	0.588	-46.91124	82.15783

Model 4-6: Robust Check 6.4: IndV: Vary source: pavg0090 to free7290

```
. regress rtot lgdph giniavni ethnl musl lpopd urbwdi free7290, r

Linear regression                               Number of obs =      88
                                                F(  7,    80) =   12.13
                                                Prob > F      =  0.0000
                                                R-squared     =  0.3818
                                                Root MSE      =  20.725
```

rtot	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
lgdph	3.404923	4.968213	0.69	0.495	-6.482137	13.29198
giniavni	-.132438	.3159039	-0.42	0.676	-.7611068	.4962309
ethnl	-4.7035	7.92823	-0.59	0.555	-20.48118	11.07418
musl	-12.29356	7.7963	-1.58	0.119	-27.80869	3.22157
lpopd	6.154319	1.938893	3.17	0.002	2.295798	10.01284
urbwdi	-.1657199	.1813459	-0.91	0.364	-.5266097	.1951698
free7290	-2.944337	.9173489	-3.21	0.002	-4.76992	-1.118755
_cons	50.87194	37.45487	1.36	0.178	-23.66563	125.4095

Model 4-6: Robust Ck 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)

```
. regress rtot lgdpmx giniavni ethnl musl lpopd urbwdi pavg0090, r

Linear regression                                       Number of obs =      86
                                                        F(  7,    78) =   10.90
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.3544
                                                        Root MSE      =  21.227

------------------------------------------------------------------------------
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |   9.042793   5.395751     1.68   0.098    -1.699323    19.78491
    giniavni |   .0198268   .3103052     0.06   0.949    -.5979434    .6375969
       ethnl |  -4.878057   8.609586    -0.57   0.573    -22.01843    12.26231
        musl |  -10.71568   8.199813    -1.31   0.195    -27.04026    5.608893
       lpopd |   6.580485   2.058449     3.20   0.002     2.482428    10.67854
      urbwdi |  -.2642563   .1985741    -1.33   0.187    -.6595869    .1310744
    pavg0090 |   .9495559   .5859953     1.62   0.109    -.2170711    2.116183
       _cons |  -22.76502    35.9748    -0.63   0.529    -94.38535    48.85531
------------------------------------------------------------------------------
```

Model 4-6: Robust Ck 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

```
. regress rtot lgdpmx giniavni ethnl musl lpopd urbwdi pavg0090 gdpmf, r

Linear regression                                       Number of obs =      86
                                                        F(  8,    77) =    9.52
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.3554
                                                        Root MSE      =  21.348

------------------------------------------------------------------------------
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |   9.284399   5.476661     1.70   0.094    -1.621027    20.18983
    giniavni |    .001938    .313684     0.01   0.995    -.6226866    .6265626
       ethnl |  -4.942511   8.690323    -0.57   0.571    -22.24715    12.36213
        musl |  -10.88448   8.307187    -1.31   0.194     -27.4262    5.657244
       lpopd |   6.363431   2.211807     2.88   0.005     1.959161     10.7677
      urbwdi |  -.2765115   .2042479    -1.35   0.180    -.6832209    .1301979
    pavg0090 |   .9860183   .5895444     1.67   0.098    -.1879145    2.159951
       gdpmf |  -5.838151   23.25331    -0.25   0.802     -52.1414     40.4651
       _cons |  -22.17997   36.16831    -0.61   0.542    -94.20028    49.84035
------------------------------------------------------------------------------
```

Model 4-6: Robust Ck 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)

```
. regress rtot lgdph giniavni ethnannx musl lpopd urbwdi pavg0090, r

Linear regression                                       Number of obs =      86
                                                        F(  7,    78) =   10.51
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.3346
                                                        Root MSE      =   21.55

------------------------------------------------------------------------------
```

```
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   4.780845   6.125689     0.78   0.437    -7.414465    16.97615
    giniavni |   .0082363   .3134422     0.03   0.979    -.6157793    .6322519
    ethnannx |  -5.801531   11.15315    -0.52   0.604    -28.00575    16.40269
        musl |  -10.45487    8.57768    -1.22   0.227    -27.53172    6.621981
       lpopd |    6.58139   2.170207     3.03   0.003      2.26084    10.90194
      urbwdi |  -.1325306   .1898646    -0.70   0.487    -.5105219    .2454608
    pavg0090 |   1.191729    .587156     2.03   0.046     .0227908    2.360666
       _cons |   6.762103   43.46415     0.16   0.877    -79.76838    93.29258
------------------------------------------------------------------------------
```

Model 4-6: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

```
. regress rtot lgdph giniavni ethnannx musl lpopd urbwdi pavg0090 ethnannf, r

Linear regression                                      Number of obs =      86
                                                       F(  8,    77) =    9.07
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.3355
                                                       Root MSE      =  21.675

------------------------------------------------------------------------------
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   5.362813   6.510511     0.82   0.413     -7.60127     18.3269
    giniavni |    .043339   .3349307     0.13   0.897    -.6235933    .7102713
    ethnannx |   -5.29376   11.41122    -0.46   0.644    -28.01641    17.42889
        musl |  -9.906781   8.760227    -1.13   0.262    -27.35062    7.537059
       lpopd |   6.569064   2.180772     3.01   0.004     2.226593    10.91154
      urbwdi |  -.1599365   .2143212    -0.75   0.458    -.5867044    .2668315
    pavg0090 |   1.180291   .5892015     2.00   0.049     .0070411    2.353541
    ethnannf |   4.875301   11.12572     0.44   0.662    -17.27884    27.02945
       _cons |    1.44091   46.89762     0.03   0.976    -91.94418      94.826
------------------------------------------------------------------------------
```

Table 2.4, Model 4-7: Long-Term Democracy and Fertility

Model 4-7: Bivariate correlations among independent variables

```
. correlate fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg0090
(obs=100)

             |  fertwdi    lgdph giniavni    ethnl     musl    lpopd   urbwdi
-------------+---------------------------------------------------------------
     fertwdi |   1.0000
       lgdph |  -0.6396   1.0000
    giniavni |   0.1637  -0.0330   1.0000
       ethnl |   0.4830  -0.5107   0.2183   1.0000
        musl |   0.0878   0.3163  -0.2978  -0.2898   1.0000
       lpopd |  -0.3870   0.1540  -0.3091  -0.1750  -0.0967   1.0000
      urbwdi |  -0.5647   0.8159  -0.0345  -0.4912   0.3028   0.0539   1.0000
    pavg0090 |  -0.4359   0.2232   0.1523   0.0241  -0.2942   0.2045   0.0782
```

Model 4-7: Fertility predicted by 6 baseline variables

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi, r
```

```
Linear regression                                       Number of obs =     105
                                                        F(  6,    98) =   55.85
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.6525
                                                        Root MSE      =  1.0167

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.8842633   .2458682    -3.60   0.001    -1.372181   -.3963459
    giniavni |   .0267901   .0119369     2.24   0.027     .0031016    .0504785
       ethnl |   .8486236   .3501207     2.42   0.017     .1538205    1.543427
        musl |   1.602146     .30901     5.18   0.000     .9889256    2.215366
       lpopd |   -.190935   .0812749    -2.35   0.021    -.3522224   -.0296476
      urbwdi |  -.0137753   .0079538    -1.73   0.086    -.0295594    .0020087
       _cons |     10.997   1.455255     7.56   0.000      8.10909     13.8849
------------------------------------------------------------------------------
```

Model 4-7: Fertility predicted by 6 baseline variables and long-term democracy

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg0090, r

Linear regression                                       Number of obs =     100
                                                        F(  7,    92) =   60.55
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.6811
                                                        Root MSE      =   .9446

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.6343229   .2798616    -2.27   0.026    -1.190152   -.0784937
    giniavni |   .0322615   .0106816     3.02   0.003      .011047    .053476
       ethnl |   1.127001   .3363524     3.35   0.001      .458976    1.795026
        musl |   1.203468   .3020272     3.98   0.000     .6036161     1.80332
       lpopd |   -.160517   .0777752    -2.06   0.042    -.3149852   -.0060488
      urbwdi |  -.0156445   .0090192    -1.73   0.086    -.0335575    .0022685
    pavg0090 |  -.0778993   .0192851    -4.04   0.000    -.1162011   -.0395975
       _cons |   8.526794   1.691798     5.04   0.000     5.166738    11.88685
------------------------------------------------------------------------------
```

Model 4-7: Means and SDs of fertility and long-term democracy

```
. summarize fertwdi

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     fertwdi |       105    4.795238    1.674089        1.3        7.6

. summarize pavg0090

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    pavg0090 |       100     -3.0848    5.295036        -10         10
```

Model 4-7: How much would fertility rise if long-term democracy rose one SD?

```
. estsimp regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg0090, r

Linear regression                                       Number of obs =     100
                                                        F(  7,    92) =   60.55
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.6811
                                                        Root MSE      =   .9446

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.6343229   .2798616    -2.27   0.026    -1.190152   -.0784937
    giniavni |   .0322615   .0106816     3.02   0.003      .011047     .053476
       ethnl |   1.127001   .3363524     3.35   0.001      .458976    1.795026
        musl |   1.203468   .3020272     3.98   0.000     .6036161     1.80332
       lpopd |   -.160517   .0777752    -2.06   0.042    -.3149852   -.0060488
      urbwdi |  -.0156445   .0090192    -1.73   0.086    -.0335575    .0022685
    pavg0090 |  -.0778993   .0192851    -4.04   0.000    -.1162011   -.0395975
       _cons |   8.526794   1.691798     5.04   0.000     5.166738    11.88685
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....
% of simulations completed: 12% 25% 37% 50% 62% 75% 87% 100%


Simulating sigma-squared.  Please wait


Number of simulations  : 1000
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9

. setx mean
. simqi, fd(ev) changex(pavg0090 -3.0848 2.2102)

First Difference: pavg0090 -3.0848 2.2102

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+-----------------------------------------------
              dE(fertwdi) |  -.4084959     .1033295    -.6137877   -.2129865
```

Model 4-7: Robustness checks

Model 4-7: Robust Check 1.2: Change specification: Include mean years female schooling

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg0090 mysfx, r

Linear regression                                       Number of obs =     100
                                                        F(  8,    91) =   77.16
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.7377
                                                        Root MSE      =  .86147

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.3063004   .2588564    -1.18   0.240    -.8204867     .207886
    giniavni |   .0266414   .0096861     2.75   0.007     .0074012    .0458816
       ethnl |   .6258255   .3617267     1.73   0.087    -.0927001    1.344351
        musl |   .5326764   .3025469     1.76   0.082    -.0682959    1.133649
       lpopd |  -.1936436   .0661203    -2.93   0.004    -.3249834   -.0623038
      urbwdi |   -.008349   .0076952    -1.08   0.281    -.0236345    .0069366
```

```
    pavg0090 |  -.0538634   .0162259    -3.32   0.001    -.0860942   -.0216326
       mysfx |  -.3146666   .0764938    -4.11   0.000    -.4666123    -.162721
       _cons |   7.632074   1.499658     5.09   0.000     4.653188    10.61096
------------------------------------------------------------------------------
```

Model 4-7: Robust Check 1.3: Change specification: Include female literacy

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg0090 litfewdi, r

Linear regression                                      Number of obs =     100
                                                       F(  8,    91) =   74.83
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7606
                                                       Root MSE      =  .82293

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.3057716   .2290027    -1.34   0.185    -.7606572     .149114
    giniavni |   .0281544   .0090816     3.10   0.003      .010115    .0461938
       ethnl |   .4033499    .347786     1.16   0.249    -.2874844    1.094184
        musl |   .3103653   .2858735     1.09   0.280    -.2574873     .878218
       lpopd |  -.1922212    .062569    -3.07   0.003    -.3165069   -.0679355
      urbwdi |  -.0079194   .0071754    -1.10   0.273    -.0221723    .0063336
    pavg0090 |  -.0535494    .015184    -3.53   0.001    -.0837106   -.0233883
    litfewdi |  -.0278068   .0053371    -5.21   0.000    -.0384083   -.0172053
       _cons |   8.092663   1.340704     6.04   0.000      5.42952    10.75581
------------------------------------------------------------------------------
```

Model 4-7: Robust Check 1.4: Change specification: Include geographical variables

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg0090 airdist popcrgs la
> tcapab, r

Linear regression                                      Number of obs =     100
                                                       F( 10,    89) =   46.28
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7203
                                                       Root MSE      =  .89942

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   -.600339   .2974111    -2.02   0.047    -1.191288   -.0093895
    giniavni |   .0242965   .0116511     2.09   0.040      .001146    .0474471
       ethnl |    .596039   .3681058     1.62   0.109    -.1353793    1.327457
        musl |   1.490626   .2693609     5.53   0.000     .9554119    2.025841
       lpopd |  -.1142492   .0846869    -1.35   0.181    -.2825204    .0540219
      urbwdi |  -.0128061   .0093607    -1.37   0.175    -.0314055    .0057934
    pavg0090 |  -.0693013   .0184406    -3.76   0.000    -.1059424   -.0326602
     airdist |   .0000549   .0000501     1.10   0.275    -.0000445    .0001544
     popcrgs |  -.0057466   .0035439    -1.62   0.108    -.0127882     .001295
    latcapab |  -.0298227   .0101906    -2.93   0.004    -.0500713   -.0095741
       _cons |    9.05684   1.728738     5.24   0.000     5.621874    12.49181
------------------------------------------------------------------------------
```

Model 4-7: Robust Check 1.5: Change specification: Include regional dummies

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg0090 afri lati east sou
```

```
> t, r

Linear regression                                       Number of obs =     100
                                                        F( 11,    88) =   45.56
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.7326
                                                        Root MSE      =  .88441

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4591178   .2632149    -1.74   0.085    -.9822022    .0639666
    giniavni |   .0209572   .0138394     1.51   0.134    -.0065457    .0484601
       ethnl |   .5524625    .346453     1.59   0.114    -.1360401    1.240965
        musl |   .6349669    .346091     1.83   0.070    -.0528162     1.32275
       lpopd |  -.1550975   .0748244    -2.07   0.041    -.3037953   -.0063997
      urbwdi |  -.0172122   .0096159    -1.79   0.077    -.0363216    .0018973
    pavg0090 |   -.062534   .0187682    -3.33   0.001    -.0998319   -.0252362
        afri |   .2138305   .4405225     0.49   0.629    -.6616155    1.089276
        lati |  -.7219247   .4185182    -1.72   0.088    -1.553642    .1097924
        east |  -1.034947   .4942166    -2.09   0.039    -2.017098    -.052795
        sout |  -.5480068   .5584077    -0.98   0.329    -1.657725    .5617112
       _cons |   8.399085   1.559168     5.39   0.000     5.300567     11.4976
------------------------------------------------------------------------------
```

Model 4-7: Robust Check 1.6: Change specification: Include family planning effort

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg0090 rtot, r

Linear regression                                       Number of obs =      86
                                                        F(  8,    77) =   57.31
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.7485
                                                        Root MSE      =  .86088

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4401926   .2634035    -1.67   0.099     -.964696    .0843109
    giniavni |   .0245494   .0122823     2.00   0.049     .0000922    .0490065
       ethnl |   1.013797   .3750148     2.70   0.008     .2670473    1.760547
        musl |   .7628792   .2703869     2.82   0.006     .2244701    1.301288
       lpopd |  -.0425606    .108496    -0.39   0.696    -.2586037    .1734824
      urbwdi |  -.0201905   .0081887    -2.47   0.016    -.0364962   -.0038848
    pavg0090 |  -.0534436   .0224895    -2.38   0.020    -.0982259   -.0086614
        rtot |  -.0240688   .0059141    -4.07   0.000    -.0358453   -.0122922
       _cons |    8.62297   1.641803     5.25   0.000     5.353721    11.89222
------------------------------------------------------------------------------
```

Model 4-7: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg0090 gdphf giniavnf eth
> nlf, r

Linear regression                                       Number of obs =     100
                                                        F(  9,    90) =   48.24
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.7125
                                                        Root MSE      =  .90684
```

```
------------------------------------------------------------------------------
             |               Robust
    fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
------------+-----------------------------------------------------------------
      lgdph |  -.6264561   .2583274    -2.43   0.017    -1.139668   -.1132437
   giniavni |   .0403436   .0107147     3.77   0.000      .019057    .0616302
      ethnl |   1.159801   .3462349     3.35   0.001     .4719454    1.847657
       musl |   1.134293   .2830129     4.01   0.000     .5720385    1.696547
      lpopd |  -.1393434   .0663943    -2.10   0.039    -.2712471   -.0074396
     urbwdi |  -.0188372   .0088712    -2.12   0.036    -.0364615    -.001213
   pavg0090 |  -.0699684   .0198999    -3.52   0.001    -.1095029   -.0304339
      gdphf |  (dropped)
   giniavnf |   .4850422    .229219     2.12   0.037     .0296587    .9404257
     ethnlf |    .722422   .6508783     1.11   0.270    -.5706613    2.015505
      _cons |   8.02922   1.751251     4.58   0.000     4.550054    11.50838
------------------------------------------------------------------------------
```

Model 4-7: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg0090

   Huber iteration 1:  maximum difference in weights = .63463824
   Huber iteration 2:  maximum difference in weights = .07115858
   Huber iteration 3:  maximum difference in weights = .03864253
Biweight iteration 4:  maximum difference in weights = .25924739
Biweight iteration 5:  maximum difference in weights = .04107449
Biweight iteration 6:  maximum difference in weights = .0195625
Biweight iteration 7:  maximum difference in weights = .00926132

Robust regression                                     Number of obs =     100
                                                      F(  7,    92) =   33.69
                                                      Prob > F      =  0.0000

------------------------------------------------------------------------------
    fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
------------+-----------------------------------------------------------------
      lgdph |  -.7960229   .1912074    -4.16   0.000    -1.175777   -.4162685
   giniavni |    .036062   .0114918     3.14   0.002     .0132383    .0588856
      ethnl |   1.188269   .3442368     3.45   0.001     .5045854    1.871953
       musl |    1.06302   .2733178     3.89   0.000     .5201875    1.605853
      lpopd |  -.1033272   .0680087    -1.52   0.132    -.2383984    .0317439
     urbwdi |  -.0127429   .0068039    -1.87   0.064    -.0262561    .0007703
   pavg0090 |  -.0710163   .0192338    -3.69   0.000    -.1092164   -.0328163
      _cons |   9.248645   1.367818     6.76   0.000      6.53204    11.96525
------------------------------------------------------------------------------
```

Model 4-7: Robust Check 3.2: Outlier checks: Median regression

```
. qreg fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg0090
Iteration  1:  WLS sum of weighted deviations =  68.609331

Iteration  1: sum of abs. weighted deviations =  69.427454
Iteration  2: sum of abs. weighted deviations =  68.229574
Iteration  3: sum of abs. weighted deviations =  68.114858
Iteration  4: sum of abs. weighted deviations =  67.987316
Iteration  5: sum of abs. weighted deviations =   67.63691
Iteration  6: sum of abs. weighted deviations =  67.562861
Iteration  7: sum of abs. weighted deviations =  67.555317
Iteration  8: sum of abs. weighted deviations =  67.549544
Iteration  9: sum of abs. weighted deviations =  67.549524
Iteration 10: sum of abs. weighted deviations =  67.549514
```

```
Median regression                                       Number of obs =       100
  Raw sum of deviations    139.3 (about 5.0999999)
  Min sum of deviations 67.54951                       Pseudo R2     =    0.5151

------------------------------------------------------------------------------
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.6114323   .2257969    -2.71   0.008    -1.059884   -.1629802
    giniavni |   .0419635    .012967     3.24   0.002     .0162098    .0677172
       ethnl |   1.426178   .3980513     3.58   0.001     .6356141    2.216743
        musl |   1.487766   .3176589     4.68   0.000     .8568679    2.118664
       lpopd |  -.1018253   .0753656    -1.35   0.180     -.251508    .0478573
      urbwdi |  -.0181574   .0077615    -2.34   0.021    -.0335725   -.0027424
    pavg0090 |  -.0856783   .0225382    -3.80   0.000    -.1304411   -.0409155
       _cons |   7.648147   1.573443     4.86   0.000     4.523153    10.77314
------------------------------------------------------------------------------
```

Model 4-7: Robust Check 3.3: Outlier checks: Discard 2 cases highst cooksd

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg0090 if ctry ~= "Oman" & ctry ~=
"Thailand", r

Linear regression                                       Number of obs =      98
                                                        F(  7,    90) =   66.75
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.7227
                                                        Root MSE      =  .86774

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.6304866   .2319341    -2.72   0.008    -1.091264   -.1697091
    giniavni |   .0353247   .0101936     3.47   0.001     .0150734    .0555761
       ethnl |   1.177964   .3297211     3.57   0.001     .5229153    1.833012
        musl |   1.065574   .2834817     3.76   0.000     .5023877    1.628759
       lpopd |  -.1121714   .0676449    -1.66   0.101    -.2465598     .022217
      urbwdi |  -.0169577   .0072981    -2.32   0.022    -.0314566   -.0024587
    pavg0090 |  -.0809979   .0186109    -4.35   0.000    -.1179716   -.0440241
       _cons |    8.23071   1.416274     5.81   0.000     5.417034    11.04439
------------------------------------------------------------------------------
```

Model 4-7: Robust Check 6.3: IndV: Vary source: pavg0090 to pavg7090

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg7090, r

Linear regression                                       Number of obs =     100
                                                        F(  7,    92) =   53.59
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.6827
                                                        Root MSE      =  .94225

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.6517522   .2507402    -2.60   0.011    -1.149744   -.1537606
    giniavni |   .0356007   .0110687     3.22   0.002     .0136173    .0575841
       ethnl |   1.039241   .3352883     3.10   0.003     .3733297    1.705153
        musl |   1.209635   .2886035     4.19   0.000     .6364435    1.782826
       lpopd |  -.1562292   .0751238    -2.08   0.040    -.3054316   -.0070269
      urbwdi |  -.0145482   .0082504    -1.76   0.081    -.0309341    .0018378
```

```
    pavg7090 |  -.0738732   .0179411    -4.12   0.000    -.1095057   -.0382407
       _cons |    8.46231   1.544095     5.48   0.000     5.395603    11.52902
------------------------------------------------------------------------------
```

Model 4-7: Robust Check 6.4: IndV: Vary source: pavg0090 to free7290

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi free7290, r

Linear regression                                      Number of obs =     104
                                                       F(  7,    96) =   58.41
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6773
                                                       Root MSE      =  .96868

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.6280865   .2650959    -2.37   0.020    -1.154298   -.1018754
    giniavni |   .0367646   .0116702     3.15   0.002     .0135995    .0599298
       ethnl |   .8557156    .334262     2.56   0.012     .1922108     1.51922
        musl |   1.391749   .2908167     4.79   0.000     .8144828    1.969016
       lpopd |  -.1452558   .0760431    -1.91   0.059    -.2962002    .0056886
      urbwdi |  -.0171552   .0080576    -2.13   0.036    -.0331494    -.001161
    free7290 |   .1357919   .0420114     3.23   0.002        .0524    .2191839
       _cons |    7.27801   2.015339     3.61   0.000     3.277593    11.27843
------------------------------------------------------------------------------
```

Model 4-7: Robust Ck 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)

```
. regress fertwdi lgdpmx giniavni ethnl musl lpopd urbwdi pavg0090, r

Linear regression                                      Number of obs =      99
                                                       F(  7,    91) =   63.09
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6890
                                                       Root MSE      =  .93589

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |  -.7281666   .2788416    -2.61   0.011    -1.282051   -.1742821
    giniavni |    .033068   .0113255     2.92   0.004     .0105712    .0555647
       ethnl |   1.053567   .3379108     3.12   0.002     .3823486    1.724785
        musl |   1.111143   .2908277     3.82   0.000     .5334497    1.688837
       lpopd |  -.1686478   .0765194    -2.20   0.030    -.3206442   -.0166514
      urbwdi |  -.0143842   .0091246    -1.58   0.118    -.0325091    .0037407
    pavg0090 |  -.0657715   .0222271    -2.96   0.004    -.1099228   -.0216201
       _cons |   9.280576   1.690206     5.49   0.000     5.923189    12.63796
------------------------------------------------------------------------------
```

Model 4-7: Robust Ck 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

```
. regress fertwdi lgdpmx giniavni ethnl musl lpopd urbwdi pavg0090 gdpmf, r

Linear regression                                      Number of obs =      99
                                                       F(  8,    90) =   55.84
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6982
                                                       Root MSE      =  .92704
```

```
------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |   -.669655   .2902302    -2.31   0.023    -1.246248    -.093062
    giniavni |   .0303553    .011129     2.73   0.008     .0082456    .0524651
       ethnl |   1.098918   .3332613     3.30   0.001     .4368367       1.761
        musl |    1.09861   .2866272     3.83   0.000     .5291747    1.668045
       lpopd |  -.1982584   .0688866    -2.88   0.005    -.3351137   -.0614031
      urbwdi |  -.0166278   .0095242    -1.75   0.084    -.0355494    .0022937
    pavg0090 |  -.0577895   .0220459    -2.62   0.010    -.1015875   -.0139914
       gdpmf |   -.982633   .7305127    -1.35   0.182    -2.433924     .468658
       _cons |   9.200471   1.734964     5.30   0.000     5.753663    12.64728
------------------------------------------------------------------------------
```

Model 4-7: Robust Ck 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)

```
. regress fertwdi lgdph giniavni ethnannx musl lpopd urbwdi pavg0090, r

Linear regression                                      Number of obs =     100
                                                       F(  7,    92) =   53.92
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6545
                                                       Root MSE      =  .98319

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.6945963   .2867381    -2.42   0.017    -1.264083   -.1251096
    giniavni |     .03704    .011577     3.20   0.002     .0140471     .060033
    ethnannx |   .5702714   .4310725     1.32   0.189    -.2858757    1.426419
        musl |   1.195202   .3029844     3.94   0.000     .5934489    1.796955
       lpopd |  -.1685788    .086746    -1.94   0.055    -.3408638    .0037063
      urbwdi |  -.0190577   .0090633    -2.10   0.038    -.0370582   -.0010573
    pavg0090 |  -.0716717   .0202328    -3.54   0.001    -.1118558   -.0314875
       _cons |   9.097072   1.821915     4.99   0.000     5.478592    12.71555
------------------------------------------------------------------------------
```

Model 4-7: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

```
. regress fertwdi lgdph giniavni ethnannx musl lpopd urbwdi pavg0090 ethnannf, r

Linear regression                                      Number of obs =     100
                                                       F(  8,    91) =   52.16
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6585
                                                       Root MSE      =   .9829

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.7707608   .2967236    -2.60   0.011    -1.360166   -.1813559
    giniavni |    .033525   .0117385     2.86   0.005     .0102079    .0568421
    ethnannx |   .5135379   .4379065     1.17   0.244    -.3563096    1.383385
        musl |   1.195172   .3031789     3.94   0.000     .5929447      1.7974
       lpopd |  -.1719045    .089185    -1.93   0.057    -.3490596    .0052506
      urbwdi |  -.0162047   .0092818    -1.75   0.084    -.0346419    .0022325
    pavg0090 |  -.0706492   .0201542    -3.51   0.001     -.110683   -.0306154
    ethnannf |  -.4752721    .339747    -1.40   0.165    -1.150138    .1995935
```

```
       _cons |   9.782777   1.950964     5.01   0.000     5.907426    13.658213
------------------------------------------------------------------------------
```

Table 2.4, Model 4-8: Family Planning Effort and Fertility

Model 4-8: Bivariate correlations among independent variables

```
. correlate fertwdi lgdph giniavni ethnl musl fertwdi lpopd urbwdi rtot
(obs=88)

             |  fertwdi    lgdph giniavni    ethnl     musl  fertwdi    lpopd
-------------+---------------------------------------------------------------
     fertwdi |   1.0000
       lgdph |  -0.6072   1.0000
    giniavni |   0.1177   0.0065   1.0000
       ethnl |   0.4830  -0.5103   0.2484   1.0000
        musl |   0.1129   0.3196  -0.3123  -0.2666   1.0000
     fertwdi |   1.0000  -0.6072   0.1177   0.4830   0.1129   1.0000
       lpopd |  -0.4124   0.1386  -0.4069  -0.2024  -0.1395  -0.4124   1.0000
      urbwdi |  -0.5552   0.8151   0.0227  -0.4898   0.2816  -0.5552   0.0537
        rtot |  -0.5919   0.1510  -0.0697  -0.1341  -0.2636  -0.5919   0.4690

             |   urbwdi     rtot
-------------+------------------
      urbwdi |   1.0000
        rtot |   0.0354   1.0000
```

Model 4-8: Fertility predicted by 6 baseline variables

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi, r

Linear regression                                      Number of obs =     105
                                                       F(  6,    98) =   55.85
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6525
                                                       Root MSE      =  1.0167

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.8842633   .2458682    -3.60   0.001    -1.372181   -.3963459
    giniavni |   .0267901   .0119369     2.24   0.027     .0031016    .0504785
       ethnl |   .8486236   .3501207     2.42   0.017     .1538205    1.543427
        musl |   1.602146     .30901     5.18   0.000     .9889256    2.215366
       lpopd |   -.190935   .0812749    -2.35   0.021    -.3522224   -.0296476
      urbwdi |  -.0137753   .0079538    -1.73   0.086    -.0295594    .0020087
       _cons |     10.997   1.455255     7.56   0.000      8.10909     13.8849
------------------------------------------------------------------------------
```

Model 4-8: Fertility predicted by 6 baseline variables and family planning

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi rtot, r

Linear regression                                      Number of obs =      88
                                                       F(  7,    80) =   42.14
                                                       Prob > F      =  0.0000
```

```
                                                R-squared     =  0.7296
                                                Root MSE      =  .89286

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5815431   .2300479    -2.53   0.013    -1.039353   -.1237332
    giniavni |   .0221777   .0137139     1.62   0.110    -.0051138    .0494692
       ethnl |   .8551493   .3622585     2.36   0.021     .1342318    1.576067
        musl |   1.082753   .2694091     4.02   0.000     .5466122    1.618895
       lpopd |  -.0479323   .1082069    -0.44   0.659    -.2632709    .1674063
      urbwdi |  -.0201957   .0075703    -2.67   0.009     -.035261   -.0051303
        rtot |  -.0272891   .0056027    -4.87   0.000    -.0384388   -.0161394
       _cons |   10.15988   1.425506     7.13   0.000     7.323032    12.99673
------------------------------------------------------------------------------
```

Model 4-8: Means and SDs of fertility and family planning

```
. summarize fertwdi

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     fertwdi |       105    4.795238    1.674089        1.3        7.6

. summarize rtot

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        rtot |        88       53.85    25.27719          0        104
```

Model 4-8: How much would fertility fall if family planning rose one SD?

```
. estsimp regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi rtot, r

Linear regression                               Number of obs =      88
                                                F(  7,    80) =   42.14
                                                Prob > F      =  0.0000
                                                R-squared     =  0.7296
                                                Root MSE      =  .89286

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5815431   .2300479    -2.53   0.013    -1.039353   -.1237332
    giniavni |   .0221777   .0137139     1.62   0.110    -.0051138    .0494692
       ethnl |   .8551493   .3622585     2.36   0.021     .1342318    1.576067
        musl |   1.082753   .2694091     4.02   0.000     .5466122    1.618895
       lpopd |  -.0479323   .1082069    -0.44   0.659    -.2632709    .1674063
      urbwdi |  -.0201957   .0075703    -2.67   0.009     -.035261   -.0051303
        rtot |  -.0272891   .0056027    -4.87   0.000    -.0384388   -.0161394
       _cons |   10.15988   1.425506     7.13   0.000     7.323032    12.99673
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....
% of simulations completed: 12% 25% 37% 50% 62% 75% 87% 100%


Simulating sigma-squared.  Please wait
```

```
Number of simulations  : 1000
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9

. setx mean
. simqi, fd(ev) changex(rtot 53.85 79.12719)

First Difference: rtot 53.85 79.12719

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
               dE(fertwdi) |   -.689232     .1400952    -.9869496   -.4253714
```

Model 4-8: Robustness checks

Model 4-8: Robust Check 1.2: Change specification: Include mean years female schooling

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi rtot mysfx, r

Linear regression                                      Number of obs =      88
                                                       F(  8,    79) =   50.28
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7720
                                                       Root MSE      =  .82507

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   -.315707   .2345508    -1.35   0.182    -.7825688    .1511548
    giniavni |    .018219   .0118549     1.54   0.128    -.0053777    .0418156
       ethnl |   .4959512   .3771485     1.32   0.192    -.2547442    1.246647
        musl |   .4882038    .310888     1.57   0.120    -.1306033    1.107011
       lpopd |  -.0971585   .0963422    -1.01   0.316    -.2889229    .0946059
      urbwdi |  -.0118724    .006433    -1.85   0.069    -.0246771    .0009322
        rtot |  -.0221239   .0050981    -4.34   0.000    -.0322713   -.0119764
       mysfx |  -.2761882   .0720927    -3.83   0.000    -.4196852   -.1326912
       _cons |   9.125927   1.377146     6.63   0.000     6.384787    11.86707
------------------------------------------------------------------------------
```

Model 4-8: Robust Check 1.3: Change specification: Include female literacy

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi rtot litfewdi, r

Linear regression                                      Number of obs =      88
                                                       F(  8,    79) =   77.38
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8014
                                                       Root MSE      =  .76995

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.2341438    .227849    -1.03   0.307    -.6876659    .2193782
    giniavni |   .0228699   .0109542     2.09   0.040     .0010661    .0446737
       ethnl |   .2135572   .3651483     0.58   0.560    -.5132524    .9403667
        musl |   .2097478   .3082494     0.68   0.498    -.4038074    .8233029
       lpopd |  -.0888846   .0833605    -1.07   0.290    -.2548096    .0770403
      urbwdi |  -.0131494   .0063581    -2.07   0.042    -.0258049    -.000494
        rtot |  -.0220847   .0047474    -4.65   0.000    -.0315342   -.0126352
    litfewdi |  -.0266511   .0056743    -4.70   0.000    -.0379455   -.0153567
```

```
       _cons |   8.990158   1.293021     6.95   0.000     6.416464    11.56385
------------------------------------------------------------------------------
```

Model 4-8: Robust Check 1.4: Change specification: Include geographical variables

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi rtot airdist popcrgs latcap
> ab, r

Linear regression                                      Number of obs =      88
                                                       F( 10,    77) =   42.76
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7659
                                                       Root MSE      =  .84687

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5213431   .2494467    -2.09   0.040    -1.018055   -.0246313
    giniavni |   .0209151    .013241     1.58   0.118    -.0054511    .0472813
       ethnl |   .4133215   .3793624     1.09   0.279    -.3420855    1.168729
        musl |   1.369324   .2957827     4.63   0.000     .7803458    1.958303
       lpopd |   .0281653   .1099292     0.26   0.798    -.1907316    .2470623
      urbwdi |  -.0168194   .0075213    -2.24   0.028    -.0317963   -.0018425
        rtot |  -.0244211   .0055887    -4.37   0.000    -.0355496   -.0132926
     airdist |  -7.44e-06   .0000525    -0.14   0.888     -.000112    .0000971
     popcrgs |  -.0084802   .0032455    -2.61   0.011    -.0149428   -.0020177
    latcapab |  -.0286579   .0100765    -2.84   0.006    -.0487228    -.008593
       _cons |   10.25958   1.445485     7.10   0.000     7.381247     13.1379
------------------------------------------------------------------------------
```

Model 4-8: Robust Check 1.5: Change specification: Include regional dummies

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi rtot afri lati east sout, r

Linear regression                                      Number of obs =      88
                                                       F( 11,    76) =   34.66
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7793
                                                       Root MSE      =  .82757

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.3550115   .2813303    -1.26   0.211    -.9153293    .2053064
    giniavni |   .0138458   .0167087     0.83   0.410    -.0194326    .0471241
       ethnl |   .3838246   .3434135     1.12   0.267    -.3001425    1.067792
        musl |   .4908242   .3508125     1.40   0.166    -.2078795    1.189528
       lpopd |  -.0184944   .1010402    -0.18   0.855    -.2197334    .1827445
      urbwdi |  -.0239553   .0085715    -2.79   0.007     -.041027   -.0068836
        rtot |  -.0256193   .0047795    -5.36   0.000    -.0351385   -.0161001
        afri |   .1165705   .4392407     0.27   0.791    -.7582531    .9913941
        lati |  -.6731789   .3934111    -1.71   0.091    -1.456725    .1103672
        east |   -1.16431   .4465356    -2.61   0.011    -2.053662   -.2749569
        sout |  -.6269099   .5380328    -1.17   0.248    -1.698495    .4446753
       _cons |   9.396368    1.78318     5.27   0.000     5.844858    12.94788
------------------------------------------------------------------------------
```

Model 4-8: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi rtot gdphf giniavnf ethnlf,
>  r

Linear regression                                       Number of obs =      88
                                                        F(  9,    78) =   30.41
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.7362
                                                        Root MSE      =  .89314

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    -.59226    .218129    -2.72   0.008    -1.026521   -.1579986
    giniavni |   .0273465    .013808     1.98   0.051    -.0001431    .054836
       ethnl |   .9220556   .3745825     2.46   0.016      .176319    1.667792
        musl |    1.12065   .2608748     4.30   0.000     .6012879    1.640012
       lpopd |  -.0511035   .1060086    -0.48   0.631    -.2621504    .1599435
      urbwdi |  -.0218498   .0078759    -2.77   0.007    -.0375294   -.0061701
        rtot |  -.0244707   .0053812    -4.55   0.000    -.0351838   -.0137576
       gdphf |  (dropped)
    giniavnf |   .2884283   .4026307     0.72   0.476    -.5131479    1.090005
      ethnlf |   .3122749    .554165     0.56   0.575     -.790983    1.415533
       _cons |   9.841185   1.522905     6.46   0.000     6.809314    12.87306
------------------------------------------------------------------------------
```

Model 4-8: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg fertwdi lgdph giniavni ethnl musl lpopd urbwdi rtot

   Huber iteration 1:  maximum difference in weights = .64575314
   Huber iteration 2:  maximum difference in weights = .14346943
   Huber iteration 3:  maximum difference in weights = .03548036
Biweight iteration 4:  maximum difference in weights = .28832831
Biweight iteration 5:  maximum difference in weights = .06047189
Biweight iteration 6:  maximum difference in weights = .02100553
Biweight iteration 7:  maximum difference in weights = .04241621
Biweight iteration 8:  maximum difference in weights = .04144891
Biweight iteration 9:  maximum difference in weights = .01528755
Biweight iteration 10:  maximum difference in weights = .01151151
Biweight iteration 11:  maximum difference in weights = .00239903

Robust regression                                       Number of obs =      88
                                                        F(  7,    80) =   44.79
                                                        Prob > F      =  0.0000

------------------------------------------------------------------------------
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.9585751    .179283    -5.35   0.000     -1.31536   -.6017907
    giniavni |   .0373838   .0118349     3.16   0.002     .0138316     .060936
       ethnl |   .9496201   .3326222     2.85   0.005     .2876809    1.611559
        musl |   1.068004   .2689554     3.97   0.000     .5327654    1.603242
       lpopd |   .0803571    .076548     1.05   0.297    -.0719782    .2326925
      urbwdi |  -.0118754   .0064031    -1.85   0.067     -.024618    .0008672
        rtot |  -.0266954   .0039404    -6.77   0.000    -.0345371   -.0188537
       _cons |   11.38006   1.217463     9.35   0.000     8.957235    13.80289
------------------------------------------------------------------------------
```

Model 4-8: Robust Check 3.2: Outlier checks: Median regression

```
. qreg fertwdi lgdph giniavni ethnl musl lpopd urbwdi rtot
```

```
Iteration  1:  WLS sum of weighted deviations =  57.664434

Iteration  1: sum of abs. weighted deviations =  209.64577
Iteration  2: sum of abs. weighted deviations =  56.918103
Iteration  3: sum of abs. weighted deviations =  56.046899
Iteration  4: sum of abs. weighted deviations =  55.882839
Iteration  5: sum of abs. weighted deviations =  55.201229
Iteration  6: sum of abs. weighted deviations =  54.782417
Iteration  7: sum of abs. weighted deviations =  54.733333
Iteration  8: sum of abs. weighted deviations =  54.495252
Iteration  9: sum of abs. weighted deviations =  54.375147
Iteration 10: sum of abs. weighted deviations =  54.255412
Iteration 11: sum of abs. weighted deviations =  54.121715
Iteration 12: sum of abs. weighted deviations =  54.100231
Iteration 13: sum of abs. weighted deviations =   54.08183

Median regression                                   Number of obs =        88
  Raw sum of deviations    127.3 (about 4.9000001)
  Min sum of deviations 54.08183                    Pseudo R2     =    0.5752

------------------------------------------------------------------------------
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.7246173   .1626132    -4.46   0.000    -1.048228   -.4010068
    giniavni |   .0295291   .0107166     2.76   0.007     .0082023    .0508559
       ethnl |   1.391738   .2942235     4.73   0.000     .8062145    1.977261
        musl |   .9844085   .2318334     4.25   0.000     .5230455    1.445772
       lpopd |   .0952554   .0687322     1.39   0.170     -.041526    .2320369
      urbwdi |  -.0167022   .0056869    -2.94   0.004    -.0280195   -.0053849
        rtot |  -.0255567   .0034137    -7.49   0.000    -.0323502   -.0187631
       _cons |   9.916007   1.109643     8.94   0.000     7.707747    12.12427
------------------------------------------------------------------------------
```

Model 4-8: Robust Check 3.3: Outlier checks: Discard 2 cases highst cooksd

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi rtot if ctry ~= "Oman" & ct
> ry ~= "Myananar", r

Linear regression                                   Number of obs =      87
                                                    F(  7,    79) =   44.65
                                                    Prob > F      =  0.0000
                                                    R-squared     =  0.7461
                                                    Root MSE      =   .8573

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.7306788   .2102405    -3.48   0.001    -1.149152   -.3122055
    giniavni |   .0262024   .0130322     2.01   0.048     .0002625    .0521423
       ethnl |    .925073   .3592982     2.57   0.012     .2099079    1.640238
        musl |   1.058347   .2621596     4.04   0.000     .5365317    1.580163
       lpopd |  -.0110232   .1037024    -0.11   0.916    -.2174377    .1953914
      urbwdi |  -.0163309    .007032    -2.32   0.023    -.0303277   -.0023342
        rtot |  -.0252624   .0054171    -4.66   0.000    -.0360449   -.0144798
       _cons |   10.64658   1.347425     7.90   0.000     7.964595    13.32856
------------------------------------------------------------------------------
```

Model 4-8: Robust Ck 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)

```
. regress fertwdi lgdpmx giniavni ethnl musl lpopd urbwdi rtot, r

Linear regression                                   Number of obs =      88
```

```
                                                F(  7,    80) =   46.08
                                                Prob > F      =  0.0000
                                                R-squared     =  0.7336
                                                Root MSE      =  .88627

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |  -.6176138    .206097    -3.00   0.004     -1.02776   -.2074676
    giniavni |   .0217063   .0125059     1.74   0.086    -.0031812    .0465938
       ethnl |   .8042703    .361311     2.23   0.029     .0852386    1.523302
        musl |    1.01222   .2729675     3.71   0.000     .4689978    1.555443
       lpopd |  -.0709611   .1030362    -0.69   0.493    -.2760097    .1340874
      urbwdi |  -.0192781   .0080489    -2.40   0.019    -.0352959   -.0032604
        rtot |  -.0256086   .0058097    -4.41   0.000    -.0371703   -.0140469
       _cons |   10.47251   1.365865     7.67   0.000     7.754347    13.19066
------------------------------------------------------------------------------
```

Model 4-8: Robust Ck 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

```
. regress fertwdi lgdpmx giniavni ethnl musl lpopd urbwdi rtot gdpmf, r

Linear regression                               Number of obs =      88
                                                F(  8,    79) =   39.01
                                                Prob > F      =  0.0000
                                                R-squared     =  0.7486
                                                Root MSE      =  .86631

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |  -.5211657   .2273062    -2.29   0.025    -.9736074   -.0687241
    giniavni |   .0176827   .0122215     1.45   0.152    -.0066436    .0420089
       ethnl |   .8148415   .3577943     2.28   0.025     .1026698    1.527013
        musl |   .9217548   .2636605     3.50   0.001     .3969518    1.446558
       lpopd |  -.1209097   .0920678    -1.31   0.193     -.304166    .0623466
      urbwdi |  -.0227098   .0087459    -2.60   0.011    -.0401182   -.0053015
        rtot |   -.025605   .0056426    -4.54   0.000    -.0368364   -.0143737
      gdpmf  |  -1.439366   .5758412    -2.50   0.015    -2.585549   -.2931822
       _cons |   10.29393   1.427371     7.21   0.000      7.45282    13.13504
------------------------------------------------------------------------------
```

Model 4-8: Robust Ck 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)

```
. regress fertwdi lgdph giniavni ethnannx musl lpopd urbwdi rtot, r

Linear regression                               Number of obs =      88
                                                F(  7,    80) =   33.07
                                                Prob > F      =  0.0000
                                                R-squared     =  0.7135
                                                Root MSE      =  .91902

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.6401433   .2266328    -2.82   0.006    -1.091157   -.1891296
    giniavni |   .0280518   .0141836     1.98   0.051    -.0001745    .0562781
    ethnannx |   .2131912   .4138384     0.52   0.608    -.6103735    1.036756
        musl |   1.060166   .2761444     3.84   0.000     .5106207    1.609711
```

```
       lpopd |  -.0507224   .1152658    -0.44   0.661    -.2801086    .1786638
      urbwdi |   -.023111   .0071702    -3.22   0.002      -.03738   -.0088419
        rtot |  -.0278492   .0058893    -4.73   0.000    -.0395692   -.0161291
       _cons |   10.73173   1.534184     7.00   0.000     7.678605    13.78485
------------------------------------------------------------------------------
```

Model 4-8: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

```
. regress fertwdi lgdph giniavni ethnannx musl lpopd urbwdi rtot ethnannf, r

Linear regression                                      Number of obs =      88
                                                       F(  8,    79) =   35.31
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7214
                                                       Root MSE      =  .91195

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.7373504   .2432649    -3.03   0.003    -1.221557   -.2531438
    giniavni |   .0216478   .0145764     1.49   0.141    -.0073658    .0506613
    ethnannx |    .096866   .4179019     0.23   0.817    -.7349469    .9286789
       musl |   .9594663   .2916939     3.29   0.002     .3788641    1.540068
       lpopd |  -.0480658   .1171832    -0.41   0.683    -.2813131    .1851815
      urbwdi |   -.018962   .0077073    -2.46   0.016    -.0343029    -.003621
        rtot |  -.0272932   .0059627    -4.58   0.000    -.0391616   -.0154249
    ethnannf |   -.815159   .3596381    -2.27   0.026    -1.531001   -.0993174
       _cons |   11.65395   1.683536     6.92   0.000     8.302954    15.00494
------------------------------------------------------------------------------
```

Table 2.4, Model 4-9: Long-Term Democracy and Access to Improved Water

Model 4-9: Bivariate correlations among independent variables

```
. correlate watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090
(obs=100)

             |  watecom    lgdph giniavni    ethnl     musl  fertwdi    lpopd
-------------+---------------------------------------------------------------
     watecom |   1.0000
       lgdph |   0.7406   1.0000
    giniavni |  -0.1585  -0.0330   1.0000
       ethnl |  -0.4861  -0.5107   0.2183   1.0000
        musl |   0.2518   0.3163  -0.2978  -0.2898   1.0000
     fertwdi |  -0.7065  -0.6396   0.1637   0.4830   0.0878   1.0000
       lpopd |   0.2985   0.1540  -0.3091  -0.1750  -0.0967  -0.3870   1.0000
      urbwdi |   0.6954   0.8159  -0.0345  -0.4912   0.3028  -0.5647   0.0539
    pavg0090 |   0.3680   0.2232   0.1523   0.0241  -0.2942  -0.4359   0.2045

             |   urbwdi pavg0090
-------------+------------------
      urbwdi |   1.0000
    pavg0090 |   0.0782   1.0000
```

Model 4-9: Safe water predicted by 7 baseline variables only

```
. regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r

Linear regression                                       Number of obs =     105
                                                        F(  7,    97) =   39.61
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.6630
                                                        Root MSE      =  14.112

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   6.747359   3.154281     2.14   0.035     .4869837    13.00773
    giniavni |  -.0095592   .1924176    -0.05   0.960    -.3914549    .3723365
       ethnl |   -4.22441   5.694025    -0.74   0.460    -15.52547    7.076654
        musl |   9.860655   6.411555     1.54   0.127    -2.864507    22.58582
     fertwdi |  -5.317322   1.289151    -4.12   0.000    -7.875931   -2.758714
       lpopd |   1.416057   1.017448     1.39   0.167    -.6032962     3.43541
      urbwdi |   .1548265   .1077148     1.44   0.154    -.0589575    .3686105
       _cons |   30.53144   23.48419     1.30   0.197    -16.07818    77.14106
------------------------------------------------------------------------------
```

Model 4-9: Safe water predicted by 7 baseline variables and long-term demoracy

```
. regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090, r

Linear regression                                       Number of obs =     100
                                                        F(  8,    91) =   44.21
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.7176
                                                        Root MSE      =  13.184

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   4.608663   3.186741     1.45   0.152    -1.721406    10.93873
    giniavni |  -.0912738   .1724705    -0.53   0.598    -.4338653    .2513176
       ethnl |  -3.259726   5.411549    -0.60   0.548     -14.0091    7.489651
        musl |   11.25157    6.45745     1.74   0.085    -1.575358     24.0785
     fertwdi |  -4.211252   1.510959    -2.79   0.006    -7.212586   -1.209918
       lpopd |    1.61531    1.00157     1.61   0.110    -.3741858    3.604805
      urbwdi |   .2984447   .1155662     2.58   0.011     .0688866    .5280027
    pavg0090 |     1.0008   .3350131     2.99   0.004     .3353378    1.666263
       _cons |   40.50417   23.89907     1.69   0.094    -6.968391    87.97673
------------------------------------------------------------------------------
```

Model 4-9: Means and SDs of access to improved water and long-term democracy

```
. summarize watecom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     watecom |       105    68.07619    23.47613          4        100

. summarize pavg0090

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
```

```
    pavg0090 |       100     -3.0848    5.295036        -10         10
```

Model 4-9: How much would access to water rise if long-term democracy rose 1 SD?

```
. estsimp regress watecom lgdph giniavni ethnl musl lpopd urbwdi pavg0090, r

Linear regression                                       Number of obs =     100
                                                        F(  7,    92) =   48.03
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.6916
                                                        Root MSE      =  13.702

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   7.279956   3.459768     2.10   0.038     .4085586    14.15135
    giniavni |  -.2271351   .1676293    -1.35   0.179    -.5600614    .1057912
       ethnl |  -8.005811   5.320725    -1.50   0.136    -18.57323    2.561608
        musl |   6.183466   5.872239     1.05   0.295    -5.479308    17.84624
       lpopd |   2.291287   1.077299     2.13   0.036     .1516783    4.430896
      urbwdi |   .3643278   .1234605     2.95   0.004     .1191245     .609531
    pavg0090 |   1.328854   .3093899     4.30   0.000     .7143787    1.943329
       _cons |   4.595695   23.93201     0.19   0.848    -42.93534    52.12673
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....
% of simulations completed: 12% 25% 37% 50% 62% 75% 87% 100%


Simulating sigma-squared.  Please wait


Number of simulations  : 1000
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9

. setx mean
. simqi, fd(ev) changex(pavg0090 -3.0848 2.2102)

First Difference: pavg0090 -3.0848 2.2102

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+-------------------------------------------------
               dE(watecom) |   7.073123     1.641853     3.894695    10.37193
```

Model 4-9: Robustness checks

Model 4-9: Robust Check 1.1: Change specification: Exclude fertility

```
. regress watecom lgdph giniavni ethnl musl lpopd urbwdi pavg0090, r

Linear regression                                       Number of obs =     100
                                                        F(  7,    92) =   48.03
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.6916
                                                        Root MSE      =  13.702

------------------------------------------------------------------------------
             |               Robust
```

watecom	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
lgdph	7.279956	3.459768	2.10	0.038	.4085586	14.15135
giniavni	-.2271351	.1676293	-1.35	0.179	-.5600614	.1057912
ethnl	-8.005811	5.320725	-1.50	0.136	-18.57323	2.561608
musl	6.183466	5.872239	1.05	0.295	-5.479308	17.84624
lpopd	2.291287	1.077299	2.13	0.036	.1516783	4.430896
urbwdi	.3643278	.1234605	2.95	0.004	.1191245	.609531
pavg0090	1.328854	.3093899	4.30	0.000	.7143787	1.943329
_cons	4.595695	23.93201	0.19	0.848	-42.93534	52.12673

Model 4-9: Robust Check 1.2: Change specification: Include mean years female schooling

```
. regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 mysfx, r

Linear regression                                      Number of obs =     100
                                                       F(  9,    90) =   38.73
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7183
                                                       Root MSE      =   13.24
```

watecom	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
lgdph	5.003753	3.308237	1.51	0.134	-1.568638	11.57614
giniavni	-.0910907	.17138	-0.53	0.596	-.431567	.2493856
ethnl	-3.812078	5.323966	-0.72	0.476	-14.38907	6.764909
musl	10.41318	6.664685	1.56	0.122	-2.827377	23.65374
fertwdi	-4.536224	1.662935	-2.73	0.008	-7.839935	-1.232513
lpopd	1.502429	1.067526	1.41	0.163	-.6183983	3.623256
urbwdi	.3067326	.1167441	2.63	0.010	.0748	.5386651
pavg0090	1.01954	.3477289	2.93	0.004	.3287158	1.710364
mysfx	-.5767473	1.211309	-0.48	0.635	-2.983223	1.829729
_cons	41.63523	24.0811	1.73	0.087	-6.20608	89.47653

Model 4-9: Robust Check 1.3: Change specification: Include female literacy

```
. regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 litfewdi,
> r

Linear regression                                      Number of obs =     100
                                                       F(  9,    90) =   38.84
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7176
                                                       Root MSE      =  13.257
```

watecom	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
lgdph	4.623626	3.24116	1.43	0.157	-1.815504	11.06276
giniavni	-.0909284	.1718288	-0.53	0.598	-.4322962	.2504395
ethnl	-3.298596	5.448589	-0.61	0.546	-14.12317	7.525977
musl	11.1995	6.715183	1.67	0.099	-2.141383	24.54038
fertwdi	-4.233136	1.652395	-2.56	0.012	-7.515907	-.9503655
lpopd	1.609013	1.045601	1.54	0.127	-.4682566	3.686283
urbwdi	.2987805	.1170217	2.55	0.012	.0662965	.5312646
pavg0090	1.001233	.3396461	2.95	0.004	.3264668	1.675999
litfewdi	-.0024413	.0785068	-0.03	0.975	-.1584088	.1535262

```
       _cons |   40.65266   24.72225     1.64   0.104      -8.4624    89.76772
------------------------------------------------------------------------------
```

Model 4-9: Robust Check 1.4: Change specification: Include geographical variables

```
. regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 airdist po
> pcrgs latcapab, r

Linear regression                                      Number of obs =     100
                                                       F( 11,    88) =   30.66
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7204
                                                       Root MSE      =  13.338

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    4.915804   3.411032     1.44   0.153    -1.862904    11.69451
    giniavni |   -.0873341   .1665417    -0.52   0.601    -.4183008    .2436325
       ethnl |   -4.238575   6.137767    -0.69   0.492     -16.4361    7.958948
        musl |    12.56765   7.034993     1.79   0.077    -1.412918    26.54822
     fertwdi |   -4.59166    1.53411    -2.99   0.004     -7.64038   -1.542939
       lpopd |    1.659266   1.217829     1.36   0.177    -.7609141    4.079446
      urbwdi |    .2899716   .1136631     2.55   0.012       .06409    .5158531
    pavg0090 |    1.024822   .3318993     3.09   0.003     .3652423    1.684403
     airdist |   -.0003242   .0007517    -0.43   0.667    -.0018181    .0011696
     popcrgs |   -.0266913   .0487067    -0.55   0.585    -.1234855     .070103
    latcapab |   -.1265599   .1688866    -0.75   0.456    -.4621866    .2090668
       _cons |    45.50896   26.04897     1.75   0.084    -6.257905    97.27582
------------------------------------------------------------------------------
```

Model 4-9: Robust Check 1.5: Change specification: Include regional dummies

```
. regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 afri lati
> east sout, r

Linear regression                                      Number of obs =     100
                                                       F( 12,    87) =   32.34
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7219
                                                       Root MSE      =  13.381

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    5.693126   3.354959     1.70   0.093    -.9752186    12.36147
    giniavni |   -.1451319   .1775291    -0.82   0.416    -.4979901    .2077264
       ethnl |   -2.709305   7.823387    -0.35   0.730    -18.25913    12.84052
        musl |    10.76615   8.066994     1.33   0.185    -5.267869    26.80018
     fertwdi |   -4.696778    1.64329    -2.86   0.005    -7.962995   -1.430562
       lpopd |     1.56624    .982935     1.59   0.115    -.3874496     3.51993
      urbwdi |    .2565526   .1392162     1.84   0.069    -.0201546    .5332598
    pavg0090 |    .9396166   .3470318     2.71   0.008     .2498532     1.62938
        afri |    1.184414   11.00568     0.11   0.915    -20.69057     23.0594
        lati |    .9053685   7.536872     0.12   0.905    -14.07498    15.88572
        east |   -4.365372   9.684518    -0.45   0.653     -23.6144    14.88366
        sout |    .5589238   10.50334     0.05   0.958     -20.3176    21.43545
       _cons |    38.61214   26.51412     1.46   0.149    -14.08755    91.31183
------------------------------------------------------------------------------
```

Model 4-9: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 gdphf gini
> avnf ethnlf, r

Linear regression                                      Number of obs =     100
                                                       F( 10,    89) =   37.88
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7238
                                                       Root MSE      =  13.184

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |     4.41313   3.232207     1.37   0.176    -2.009195    10.83546
    giniavni |  -.0373138   .1934654    -0.19   0.847    -.4217254    .3470979
       ethnl |  -2.059134   5.806245    -0.35   0.724    -13.59602    9.477752
        musl |     11.601   6.475735     1.79   0.077    -1.266149    24.46815
     fertwdi |  -4.354165   1.582046    -2.75   0.007    -7.497656   -1.210673
       lpopd |   1.687691   .9986226     1.69   0.095    -.2965506    3.671933
      urbwdi |   .2959696   .1209313     2.45   0.016     .0556817    .5362576
    pavg0090 |   .9165054   .3674778     2.49   0.014     .1863349    1.646676
       gdphf |  (dropped)
    giniavnf |  -2.913724   4.107408    -0.71   0.480    -11.07506    5.247608
      ethnlf |   8.468212   5.333925     1.59   0.116    -2.130183    19.06661
       _cons |    39.5226   24.20803     1.63   0.106    -8.578232    87.62343
------------------------------------------------------------------------------
```

Model 4-9: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090

   Huber iteration 1:  maximum difference in weights = .71748228
   Huber iteration 2:  maximum difference in weights = .0996565
   Huber iteration 3:  maximum difference in weights = .04402986
Biweight iteration 4:  maximum difference in weights = .25988008
Biweight iteration 5:  maximum difference in weights = .06568939
Biweight iteration 6:  maximum difference in weights = .02802098
Biweight iteration 7:  maximum difference in weights = .01304898
Biweight iteration 8:  maximum difference in weights = .00526062

Robust regression                                      Number of obs =     100
                                                       F(  8,    91) =   27.95
                                                       Prob > F      =  0.0000

------------------------------------------------------------------------------
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   3.821274   2.953066     1.29   0.199    -2.044629    9.687176
    giniavni |  -.1042301   .1750939    -0.60   0.553    -.4520327    .2435726
       ethnl |  -3.384399   5.309966    -0.64   0.525    -13.93199    7.163195
        musl |   14.21685   4.369961     3.25   0.002     5.536457    22.89724
     fertwdi |  -3.531839     1.4286    -2.47   0.015    -6.369578   -.6940999
       lpopd |   1.261828   1.025635     1.23   0.222    -.7754699    3.299125
      urbwdi |   .3178859   .1024788     3.10   0.003     .1143243    .5214476
    pavg0090 |    1.08022   .3038356     3.56   0.001     .4766875    1.683752
       _cons |   44.94173   23.50805     1.91   0.059    -1.754131    91.63759
------------------------------------------------------------------------------
```

Model 4-9: Robust Check 3.2: Outlier checks: Median regression

```
. qreg watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090
Iteration  1:  WLS sum of weighted deviations =  958.43484

Iteration  1: sum of abs. weighted deviations =  975.53428
Iteration  2: sum of abs. weighted deviations =  941.83476
Iteration  3: sum of abs. weighted deviations =  939.73524
Iteration  4: sum of abs. weighted deviations =   937.9074
Iteration  5: sum of abs. weighted deviations =  933.77426
Iteration  6: sum of abs. weighted deviations =  933.10026
Iteration  7: sum of abs. weighted deviations =  933.07803
Iteration  8: sum of abs. weighted deviations =  931.53485
Iteration  9: sum of abs. weighted deviations =  931.37581
Iteration 10: sum of abs. weighted deviations =  931.07613
Iteration 11: sum of abs. weighted deviations =  931.00797
Iteration 12: sum of abs. weighted deviations =  930.28166
Iteration 13: sum of abs. weighted deviations =  930.25449
Iteration 14: sum of abs. weighted deviations =  929.53077
Iteration 15: sum of abs. weighted deviations =  929.13736
Iteration 16: sum of abs. weighted deviations =  929.11661
Iteration 17: sum of abs. weighted deviations =  929.03345
Iteration 18: sum of abs. weighted deviations =  928.97209

Median regression                                     Number of obs =       100
  Raw sum of deviations     1981 (about 72)
  Min sum of deviations 928.9721                      Pseudo R2     =    0.5311

------------------------------------------------------------------------------
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   6.574081   1.970093     3.34   0.001     2.660733    10.48743
    giniavni |   -.369599   .1192223    -3.10   0.003    -.6064194   -.1327785
       ethnl |   1.999001   3.725674     0.54   0.593    -5.401592    9.399594
        musl |   8.311327   3.089566     2.69   0.008     2.174282    14.44837
     fertwdi |     -3.064   .9358243    -3.27   0.001      -4.9229     -1.2051
       lpopd |   .4245553   .7031828     0.60   0.548    -.9722309    1.821342
      urbwdi |   .3339991   .0720053     4.64   0.000     .1909694    .4770288
    pavg0090 |   .9635843   .2087519     4.62   0.000     .5489243    1.378244
       _cons |   33.70551   15.57756     2.16   0.033     2.762592    64.64843
------------------------------------------------------------------------------
```

Model 4-9: Robust Check 3.3: Outlier checks: Discard 2 cases highst cooksd

```
. regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 if ctry ~=
>  "Afghanistan" & ctry ~= "Somalia", r

Linear regression                                     Number of obs =      98
                                                      F(  8,    89) =   45.58
                                                      Prob > F      =  0.0000
                                                      R-squared     =  0.7557
                                                      Root MSE      =  11.901

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    4.29188   2.978225     1.44   0.153    -1.625789    10.20955
    giniavni |  -.0719279   .1612503    -0.45   0.657    -.3923288    .2484729
       ethnl |  -1.108497   5.045492    -0.22   0.827    -11.13378    8.916789
        musl |   13.21356   4.861244     2.72   0.008     3.554376    22.87275
     fertwdi |  -4.680051   1.487406    -3.15   0.002    -7.635496   -1.724607
       lpopd |   1.796529   1.000365     1.80   0.076    -.1911755    3.784234
      urbwdi |   .2833044   .1114662     2.54   0.013     .0618233    .5047855
```

```
    pavg0090 |   .9030825   .3228641     2.80   0.006     .2615584    1.544607
       _cons |   42.94969   23.25961     1.85   0.068    -3.266656    89.16603
------------------------------------------------------------------------------
```

Model 4-9: Robust Check 6.3: IndV: Vary source: pavg0090 to pavg7090

```
. regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg7090, r

Linear regression                                      Number of obs =     100
                                                       F(  8,    91) =   42.71
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7144
                                                       Root MSE      =  13.258

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   4.967628   3.072809     1.62   0.109    -1.136129    11.07139
    giniavni |  -.1265801   .1705146    -0.74   0.460    -.4652864    .2121262
       ethnl |  -2.037046    5.40165    -0.38   0.707    -12.76676    8.692668
        musl |   10.98719   6.756712     1.63   0.107    -2.434184    24.40857
     fertwdi |  -4.267826      1.401    -3.05   0.003     -7.05074   -1.484912
       lpopd |   1.585697   .9886302     1.60   0.112    -.3780956     3.54949
      urbwdi |   .2815524   .1020663     2.76   0.007     .0788103    .4842945
    pavg7090 |   .8893319   .2643858     3.36   0.001     .3641619    1.414502
       _cons |   40.06149    24.0773     1.66   0.100    -7.765108    87.88808
------------------------------------------------------------------------------
```

Model 4-9: Robust Check 6.4: IndV: Vary source: pavg0090 to free7290

```
. regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi free7290, r

Linear regression                                      Number of obs =     104
                                                       F(  8,    95) =   40.80
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6844
                                                       Root MSE      =  13.674

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   5.041497   3.141552     1.60   0.112    -1.195272    11.27827
    giniavni |  -.1491731   .1947858    -0.77   0.446    -.5358719    .2375257
       ethnl |  -5.069455   5.423758    -0.93   0.352    -15.83698    5.698066
        musl |   10.09246   6.386651     1.58   0.117    -2.586646    22.77156
     fertwdi |  -3.988907    1.33788    -2.98   0.004    -6.644935   -1.332879
       lpopd |   1.387449   .9904599     1.40   0.165    -.5788628     3.35376
      urbwdi |   .2214254   .1063017     2.08   0.040     .0103898     .432461
    free7290 |   -1.55838   .5480706    -2.84   0.005    -2.646438   -.4703227
       _cons |   56.35822   25.42154     2.22   0.029     5.890084    106.8264
------------------------------------------------------------------------------
```

Model 4-9: Robust Ck 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)

```
. regress watecom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg0090, r

Linear regression                                      Number of obs =      99
                                                       F(  8,    90) =   41.25
                                                       Prob > F      =  0.0000
```

```
                                                R-squared     =  0.7187
                                                Root MSE      =  13.094

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |   6.706975   3.279183     2.05   0.044      .192305    13.22164
    giniavni |  -.1271847   .1737269    -0.73   0.466    -.4723236    .2179542
       ethnl |  -2.866997   5.257016    -0.55   0.587    -13.31098    7.576983
        musl |   11.12378   6.028651     1.85   0.068    -.8531846    23.10075
     fertwdi |  -3.840575   1.472607    -2.61   0.011    -6.766165   -.9149851
       lpopd |   1.638816   .9918991     1.65   0.102    -.3317642    3.609397
      urbwdi |   .2602162   .1130491     2.30   0.024     .0356244    .4848079
    pavg0090 |   .8729527   .3591611     2.43   0.017     .1594165    1.586489
       _cons |   25.37233   25.49115     1.00   0.322    -25.27029    76.01495
------------------------------------------------------------------------------
```

Model 4-9: Robust Ck 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

```
. regress watecom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 gdpmf, r

Linear regression                               Number of obs =      99
                                                F(  9,    89) =   35.99
                                                Prob > F      =  0.0000
                                                R-squared     =  0.7209
                                                Root MSE      =  13.117

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |    6.97403   3.249976     2.15   0.035     .5163975    13.43166
    giniavni |  -.1397132   .1750802    -0.80   0.427    -.4875938    .2081673
       ethnl |  -2.314149   5.291466    -0.44   0.663    -12.82818    8.199882
        musl |   11.27076   6.086794     1.85   0.067    -.8235743    23.36509
     fertwdi |  -4.054337   1.530598    -2.65   0.010    -7.095604   -1.013071
       lpopd |   1.388848   1.001202     1.39   0.169    -.6005191    3.378215
      urbwdi |   .2409327    .112016     2.15   0.034     .0183593    .4635061
    pavg0090 |    .916558   .3482877     2.63   0.010     .2245178    1.608598
       gdpmf |  -7.098905   9.881846    -0.72   0.474    -26.73392    12.53611
       _cons |   26.77745   26.06009     1.03   0.307    -25.00339    78.55829
------------------------------------------------------------------------------
```

Model 4-9: Robust Ck 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)

```
. regress watecom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg0090, r

Linear regression                               Number of obs =     100
                                                F(  8,    91) =   41.75
                                                Prob > F      =  0.0000
                                                R-squared     =  0.7174
                                                Root MSE      =  13.188

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    4.43797   3.165064     1.40   0.164    -1.849041    10.72498
    giniavni |  -.0966032   .1706576    -0.57   0.573    -.4355936    .2423872
    ethnannx |  -3.439835   6.296946    -0.55   0.586    -15.94795    9.068276
        musl |   11.30292   6.624734     1.71   0.091    -1.856298    24.46214
```

```
     fertwdi |  -4.379233   1.494648    -2.93   0.004    -7.348168   -1.410297
       lpopd |   1.559588   1.002459     1.56   0.123    -.4316749    3.55085
      urbwdi |     .30614   .1139568     2.69   0.009     .0797789    .5325011
    pavg0090 |   .9704902   .3300579     2.94   0.004     .3148707    1.62611
       _cons |   43.26957   23.78233     1.82   0.072    -3.971098    90.51024
------------------------------------------------------------------------------
```

Model 4-9: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

```
. regress watecom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg0090 ethnann
> f, r

Linear regression                                      Number of obs =     100
                                                       F(  9,    90) =   36.24
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7237
                                                       Root MSE      =  13.112

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   2.858673   3.423844     0.83   0.406    -3.943391    9.660737
    giniavni |  -.1546305   .1951776    -0.79   0.430    -.5423848    .2331238
    ethnannx |   -4.38234   6.404194    -0.68   0.496    -17.10539     8.34071
       musl |   11.55937   6.128668     1.89   0.063    -.6162958    23.73504
     fertwdi |  -4.594266   1.504601    -3.05   0.003    -7.583419   -1.605113
       lpopd |     1.4609   1.010172     1.45   0.152    -.5459839    3.467783
      urbwdi |   .3556057   .1399015     2.54   0.013     .0776671    .6335444
    pavg0090 |   .9742748   .3379295     2.88   0.005     .3029188    1.645631
    ethnannf |  -8.922901   10.35526    -0.86   0.391    -29.49542    11.64962
       _cons |   58.09937   27.28119     2.13   0.036     3.900517    112.2982
------------------------------------------------------------------------------
```

Table 2.4, Model 4-10: Long-Term Democracy and Infant Mortality

Model 4-10: Bivariate correlations among independent variables

```
. correlate limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 (obs=100)

             |  limrcom    lgdph giniavni    ethnl     musl  fertwdi    lpopd   urbwdi pavg0090
-------------+---------------------------------------------------------------------------
     limrcom |   1.0000
       lgdph |  -0.8319   1.0000
    giniavni |   0.1681  -0.0330   1.0000
       ethnl |   0.5409  -0.5107   0.2183   1.0000
        musl |  -0.0796   0.3163  -0.2978  -0.2898   1.0000
     fertwdi |   0.7614  -0.6396   0.1637   0.4830   0.0878   1.0000
       lpopd |  -0.3615   0.1540  -0.3091  -0.1750  -0.0967  -0.3870   1.0000
      urbwdi |  -0.7234   0.8159  -0.0345  -0.4912   0.3028  -0.5647   0.0539   1.0000
    pavg0090 |  -0.3546   0.2232   0.1523   0.0241  -0.2942  -0.4359   0.2045   0.0782
```

Model 4-10: Infant mortality predicted by 7 baseline variables only (same as Model 2-3)

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r
```

```
Linear regression                                       Number of obs =     105
                                                        F(  7,    97) =  115.48
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8460
                                                        Root MSE      =  .32809

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5106892   .0728516    -7.01   0.000    -.6552793    -.366099
    giniavni |   .0098456   .0057971     1.70   0.093      -.00166    .0213512
       ethnl |   .2291501   .1208339     1.90   0.061    -.0106718     .468972
        musl |   .3573075   .1090143     3.28   0.001     .1409443    .5736707
     fertwdi |   .0883452   .0306893     2.88   0.005     .0274354    .1492551
       lpopd |  -.0713372   .0317142    -2.25   0.027    -.1342811   -.0083933
      urbwdi |  -.0046217   .0022445    -2.06   0.042    -.0090765   -.0001669
       _cons |   7.311515   .6431156    11.37   0.000     6.035109    8.587922
------------------------------------------------------------------------------
```

Model 4-10: Infant Mortality predicted by 7 baseline variables and long-term democracy

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090, r

Linear regression                                       Number of obs =     100
                                                        F(  8,    91) =   68.95
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8360
                                                        Root MSE      =  .32655

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4867714    .072605    -6.70   0.000    -.6309924   -.3425504
    giniavni |   .0112383   .0057496     1.95   0.054    -.0001826    .0226591
       ethnl |   .2793156   .1224574     2.28   0.025      .036069    .5225622
        musl |   .3270487   .1148103     2.85   0.005     .0989922    .5551053
     fertwdi |    .056079   .0317691     1.77   0.081    -.0070265    .1191845
       lpopd |  -.0636556   .0333372    -1.91   0.059    -.1298758    .0025647
      urbwdi |  -.0057896   .0023196    -2.50   0.014    -.0103973   -.0011819
    pavg0090 |  -.0165231   .0071948    -2.30   0.024    -.0308147   -.0022315
       _cons |   7.187911   .6541755    10.99   0.000     5.888472     8.48735
------------------------------------------------------------------------------
```

Model 4-10: Means and SDs of infant mortality and long-term democracy

```
. summarize imrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
      imrcom |       105    70.13333    45.54712          6        202

. summarize limrcom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     limrcom |       105    3.985123     .807504   1.791759   5.308268

. summarize pavg0090

    Variable |       Obs        Mean    Std. Dev.       Min        Max
```

```
-------------+--------------------------------------------------------
    pavg0090 |       100     -3.0848    5.295036        -10         10
```

Model 4-10: How much would infant mortality fall if long-term democracy rose one SD?

```
. estsimp regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090, r

Linear regression                                      Number of obs =     100
                                                       F(  8,    91) =   68.95
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8360
                                                       Root MSE      =  .32655

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4867714    .072605    -6.70   0.000    -.6309924   -.3425504
    giniavni |   .0112383   .0057496     1.95   0.054    -.0001826    .0226591
       ethnl |   .2793156   .1224574     2.28   0.025      .036069    .5225622
        musl |   .3270487   .1148103     2.85   0.005     .0989922    .5551053
     fertwdi |    .056079   .0317691     1.77   0.081    -.0070265    .1191845
       lpopd |  -.0636556   .0333372    -1.91   0.059    -.1298758    .0025647
      urbwdi |  -.0057896   .0023196    -2.50   0.014    -.0103973   -.0011819
    pavg0090 |  -.0165231   .0071948    -2.30   0.024    -.0308147   -.0022315
       _cons |   7.187911   .6541755    10.99   0.000     5.888472    8.48735
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....
% of simulations completed: 11% 22% 33% 44% 55% 66% 77% 88% 100%


Simulating sigma-squared.  Please wait


Number of simulations  : 1000
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9 b10



. setx mean
. simqi, tfunc(exp) fd(ev) changex(pavg0090 -3.0848 2.210236)

First Difference: pavg0090 -3.0848 2.210236

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
          dE[exp(limrcom)] |  -4.941598     2.206439    -9.210365   -.5361042
```

Model 4-10: Robustness checks

Model 4-10: Robust Check 1.1: Change specification: Exclude fertility

```
. regress limrcom lgdph giniavni ethnl musl lpopd urbwdi pavg0090, r

Linear regression                                      Number of obs =     100
                                                       F(  7,    92) =   80.37
```

```
                                                      Prob > F      =  0.0000
                                                      R-squared     =  0.8316
                                                      Root MSE      =  .32906

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5223436   .0671313    -7.78   0.000    -.6556722   -.3890149
    giniavni |   .0130475   .0057818     2.26   0.026     .0015644    .0245305
       ethnl |   .3425167   .1204285     2.84   0.005     .1033353     .581698
        musl |    .394538   .1117015     3.53   0.001     .1726892    .6163869
       lpopd |  -.0726572   .0317757    -2.29   0.025    -.1357664    -.009548
      urbwdi |   -.006667   .0024515    -2.72   0.008    -.0115359    -.001798
    pavg0090 |  -.0208916   .0069883    -2.99   0.004    -.0347711   -.0070122
       _cons |   7.666085   .5540477    13.84   0.000     6.565699    8.766472
------------------------------------------------------------------------------
```

Model 4-10: Robust Ck 1.1a: Change specif.: Excl fertility & 2 Cook's D Outliers

```
. regress limrcom lgdph giniavni ethnl musl lpopd urbwdi pavg0090 if ctry ~= "Mongol
> ia" & ctry ~= "Cuba"

      Source |       SS       df       MS              Number of obs =      98
-------------+------------------------------           F(  7,    90) =   70.54
       Model |  47.4350421     7  6.77643459           Prob > F      =  0.0000
    Residual |  8.64529974    90  .096058886           R-squared     =  0.8458
-------------+------------------------------           Adj R-squared =  0.8339
       Total |  56.0803418    97  .578147854           Root MSE      =  .30993

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   -.551829   .0682269    -8.09   0.000    -.6873737   -.4162843
    giniavni |   .0133502   .0044193     3.02   0.003     .0045705      .02213
       ethnl |   .3631719   .1225142     2.96   0.004      .119776    .6065678
        musl |   .4204343   .1001325     4.20   0.000     .2215037    .6193649
       lpopd |  -.0515564   .0257097    -2.01   0.048    -.1026331   -.0004796
      urbwdi |  -.0056248   .0024584    -2.29   0.024    -.0105088   -.0007408
    pavg0090 |  -.0189825   .0067934    -2.79   0.006    -.0324788   -.0054863
       _cons |   7.745745   .5087402    15.23   0.000     6.735044    8.756446
------------------------------------------------------------------------------
```

Model 4-10: Robust Check 1.2: Change specification: Include mean years of female school

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 mysfx, r

Linear regression                                     Number of obs =     100
                                                      F(  9,    90) =   64.61
                                                      Prob > F      =  0.0000
                                                      R-squared     =  0.8518
                                                      Root MSE      =  .31214

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4265493   .0740883    -5.76   0.000    -.5737386   -.2793599
    giniavni |   .0112662     .00567     1.99   0.050     1.64e-06    .0225307
       ethnl |   .1951225   .1243758     1.57   0.120    -.0519718    .4422168
        musl |   .1992561   .1132231     1.76   0.082    -.0256814    .4241936
     fertwdi |   .0065446    .033829     0.19   0.847    -.0606627    .0737519
```

```
       lpopd |  -.0808616   .0346807    -2.33   0.022    -.1497608   -.0119623
      urbwdi |  -.0045263   .0023211    -1.95   0.054    -.0091376    .0000849
    pavg0090 |  -.0136667   .0073594    -1.86   0.067    -.0282873     .000954
       mysfx |  -.0879115   .0275981    -3.19   0.002      -.14274   -.033083
       _cons |   7.360314   .6736401    10.93   0.000      6.02201    8.698618
------------------------------------------------------------------------------
```

Model 4-10: Robust Check 1.3: Change specification: Include female literacy

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 litfewdi, r

Linear regression                               Number of obs =     100
                                                F(  9,    90) =   60.39
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8486
                                                Root MSE      =  .31543

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4491426   .0700496    -6.41   0.000    -.5883083   -.3099769
    giniavni |    .012107   .0058012     2.09   0.040      .000582    .023632
       ethnl |   .1815698   .1174675     1.55   0.126    -.0517999    .4149395
        musl |   .1960992   .1171183     1.67   0.098    -.0365767    .4287751
     fertwdi |   .0010444   .0377972     0.03   0.978    -.0740464    .0761352
       lpopd |  -.0794893   .0340983    -2.33   0.022    -.1472314   -.0117472
      urbwdi |   -.004945    .002353    -2.10   0.038    -.0096196   -.0002705
    pavg0090 |  -.0154342   .0068028    -2.27   0.026    -.0289493   -.0019192
    litfewdi |  -.0061393   .0020908    -2.94   0.004    -.0102931   -.0019855
       _cons |   7.561331   .6614835    11.43   0.000     6.247179    8.875484
------------------------------------------------------------------------------
```

Model 4-10: Robust Check 1.4: Change specification: Incl geographical variables

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 airdist popcrgs latcapab,
> r

Linear regression                               Number of obs =     100
                                                F( 11,    88) =   51.10
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8418
                                                Root MSE      =  .32612

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4792422    .072097    -6.65   0.000    -.6225199   -.3359646
    giniavni |   .0119698   .0054697     2.19   0.031     .0010999    .0228397
       ethnl |   .3350044   .1201434     2.79   0.006     .0962446    .5737641
        musl |   .2539141   .1268693     2.00   0.048     .0017879    .5060402
     fertwdi |   .0721321   .0352639     2.05   0.044     .0020524    .1422118
       lpopd |  -.0521884   .0328363    -1.59   0.116    -.1174437    .0130669
      urbwdi |  -.0054544   .0023364    -2.33   0.022    -.0100975   -.0008113
    pavg0090 |  -.0151893   .0076247    -1.99   0.049    -.0303418   -.0000369
     airdist |  -3.49e-06   .0000183    -0.19   0.849    -.0000398    .0000328
     popcrgs |  -.0004454    .001185    -0.38   0.708    -.0028004    .0019096
    latcapab |   .0061535   .0037865     1.63   0.108    -.0013714    .0136784
       _cons |   6.889243   .6237377    11.05   0.000     5.649696    8.128791
------------------------------------------------------------------------------
```

Model 4-10: Robust Check 1.5: Change specification: Include regional dummies

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 afri lati east sout, r

Linear regression                                      Number of obs =     100
                                                       F( 12,    87) =   51.11
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8385
                                                       Root MSE      =  .33141

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   -.503975   .0772518    -6.52   0.000    -.6575213   -.3504286
    giniavni |   .0130229   .0059628     2.18   0.032     .0011712    .0248746
       ethnl |   .3039527    .141339     2.15   0.034     .0230261    .5848793
        musl |   .2681298   .1008221     2.66   0.009      .067735    .4685247
     fertwdi |   .0618691   .0382498     1.62   0.109    -.0141565    .1378947
       lpopd |  -.0675648    .034583    -1.95   0.054    -.1363021    .0011726
      urbwdi |  -.0049994   .0027142    -1.84   0.069    -.0103941    .0003953
    pavg0090 |  -.0168447   .0075847    -2.22   0.029    -.0319202   -.0017692
        afri |  -.1198378   .1194716    -1.00   0.319    -.3573005     .117625
        lati |  -.0847863   .1465514    -0.58   0.564     -.376073    .2065003
        east |  -.0623005   .1557346    -0.40   0.690    -.3718398    .2472388
        sout |    .068822   .2172373     0.32   0.752    -.3629607    .5006048
       _cons |   7.262648   .6995098    10.38   0.000     5.872297       8.653
------------------------------------------------------------------------------
```

Model 4-10: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 gdphf giniavnf ethnlf, r

Linear regression                                      Number of obs =     100
                                                       F( 10,    89) =   54.67
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8447
                                                       Root MSE      =  .32129

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4717849    .069113    -6.83   0.000     -.609111   -.3344588
    giniavni |   .0078931   .0056451     1.40   0.166    -.0033235    .0191098
       ethnl |   .2271222    .125301     1.81   0.073    -.0218482    .4760926
        musl |   .3103134   .1132715     2.74   0.007     .0852452    .5353815
     fertwdi |    .079221   .0312439     2.54   0.013     .0171401     .141302
       lpopd |  -.0661185   .0318327    -2.08   0.041    -.1293695   -.0028676
      urbwdi |  -.0047582   .0023334    -2.04   0.044    -.0093947   -.0001217
    pavg0090 |  -.0150151   .0067092    -2.24   0.028    -.0283462   -.0016839
       gdphf |  (dropped)
    giniavnf |  -.0469706   .0801899    -0.59   0.560    -.2063061    .1123649
      ethnlf |  -.3075205   .1582787    -1.94   0.055    -.6220169    .0069759
       _cons |   7.135017   .5831598    12.24   0.000     5.976291    8.293743
------------------------------------------------------------------------------
```

Model 4-10: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090
```

```
   Huber iteration 1:  maximum difference in weights = .49567902
   Huber iteration 2:  maximum difference in weights = .0439988
Biweight iteration 3:  maximum difference in weights = .15500428
Biweight iteration 4:  maximum difference in weights = .02521086
Biweight iteration 5:  maximum difference in weights = .00482238

Robust regression                                       Number of obs =     100
                                                        F(  8,    91) =   49.46
                                                        Prob > F      =  0.0000

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4847177   .0807556    -6.00   0.000    -.6451287   -.3243066
    giniavni |   .0117637   .0047882     2.46   0.016     .0022526    .0212748
       ethnl |   .2882849   .1452082     1.99   0.050    -.0001534    .5767231
        musl |   .3277516   .1195025     2.74   0.007     .0903745    .5651286
     fertwdi |   .0619908    .039067     1.59   0.116     -.015611    .1395926
       lpopd |  -.0507803   .0280474    -1.81   0.074    -.1064929    .0049324
      urbwdi |  -.0058447   .0028024    -2.09   0.040    -.0114114   -.0002781
    pavg0090 |  -.0156753   .0083088    -1.89   0.062    -.0321797    .0008291
       _cons |   7.071096   .6428596    11.00   0.000     5.794135    8.348058
------------------------------------------------------------------------------
```

Model 4-10: Robust Check 3.2: Outlier checks: Median regression

```
. qreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090
Iteration  1:  WLS sum of weighted deviations =  25.578183

Iteration  1: sum of abs. weighted deviations =  26.898331
Iteration  2: sum of abs. weighted deviations =  25.847426
Iteration  3: sum of abs. weighted deviations =  25.133546
Iteration  4: sum of abs. weighted deviations =   24.99836
Iteration  5: sum of abs. weighted deviations =  24.969113
Iteration  6: sum of abs. weighted deviations =  24.964539
Iteration  7: sum of abs. weighted deviations =  24.951437
Iteration  8: sum of abs. weighted deviations =  24.948308

Median regression                                   Number of obs =       100
  Raw sum of deviations 62.56597 (about 4.1271343)
  Min sum of deviations 24.94831                    Pseudo R2     =    0.6012

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   -.411241   .0857345    -4.80   0.000    -.5815421   -.2409399
    giniavni |   .0093076     .00523     1.78   0.078    -.0010812    .0196965
       ethnl |   .2355762   .1574409     1.50   0.138    -.0771609    .5483133
        musl |   .2537386   .1278845     1.98   0.050    -.0002882    .5077654
     fertwdi |   .1066579   .0397748     2.68   0.009     .0276502    .1856656
       lpopd |  -.0672025   .0304846    -2.20   0.030    -.1277565   -.0066485
      urbwdi |   -.006564   .0028621    -2.29   0.024    -.0122492   -.0008788
    pavg0090 |  -.0078948   .0084511    -0.93   0.353     -.024682    .0088923
       _cons |   6.587478   .7038409     9.36   0.000     5.189385    7.985572
------------------------------------------------------------------------------
```

Model 4-10: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 if ctry ~= "Mongolia" &
ctry ~= "Cuba", r

Linear regression                                   Number of obs =      98
```

```
                                                F(  8,    89) =   64.69
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8499
                                                Root MSE      =  .30751

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5161132   .0656729    -7.86   0.000    -.6466039   -.3856225
    giniavni |   .0119774   .0049519     2.42   0.018     .0021381    .0218168
       ethnl |   .3062627   .1196158     2.56   0.012     .0685886    .5439368
        musl |   .3612784   .1035012     3.49   0.001     .1556238    .5669331
     fertwdi |   .0532885   .0295734     1.80   0.075    -.0054733    .1120503
       lpopd |  -.0417948   .0274498    -1.52   0.131    -.0963369    .0127474
      urbwdi |  -.0048982   .0021298    -2.30   0.024      -.00913   -.0006664
    pavg0090 |  -.0149006     .00705    -2.11   0.037    -.0289089   -.0008924
       _cons |   7.258305    .533492    13.61   0.000     6.198268    8.318343
------------------------------------------------------------------------------
```

Model 4-10: Robust Check 4.1: Endog ck: Corr cand. inst (fertwdin) & hyp endg reg (fertwdi)

```
. correlate fertwdi fertwdin
(obs=105)

             |  fertwdi fertwdin
-------------+------------------
     fertwdi |   1.0000
    fertwdin |   0.6135   1.0000
```

Model 4-10: Robust Check 4.2: Endog.: Assoc. Betw. Cand. Inst. & Hypth. Endog. Rgrssr.

```
. ivreg limrcom lgdph giniavni ethnl musl (fertwdi = fertwdin) lpopd urbwdi pavg0090, first

First-stage regressions
-----------------------

      Source |       SS       df       MS              Number of obs =     100
-------------+------------------------------           F(  8,    91) =   29.40
       Model |  185.605923     8  23.2007404           Prob > F      =  0.0000
    Residual |  71.8215788    91  .789248119           R-squared     =  0.7210
-------------+------------------------------           Adj R-squared =  0.6965
       Total |  257.427502    99   2.6002778           Root MSE      =   .8884

------------------------------------------------------------------------------
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4456846   .1998726    -2.23   0.028    -.8427069   -.0486623
    giniavni |   .0281041   .0116512     2.41   0.018     .0049605    .0512477
       ethnl |   .6386088   .3727631     1.71   0.090    -.1018393    1.379057
        musl |   .8688487   .2909379     2.99   0.004     .2909364    1.446761
       lpopd |  -.1918141   .0691602    -2.77   0.007    -.3291923   -.0544358
      urbwdi |  -.0202577   .0069826    -2.90   0.005    -.0341278   -.0063876
    pavg0090 |   -.056906   .0202591    -2.81   0.006    -.0971481   -.0166638
    fertwdin |   .2563807   .0710827     3.61   0.001     .1151836    .3975777
       _cons |   6.789762   1.461609     4.65   0.000     3.886454    9.693069
------------------------------------------------------------------------------
```

Model 4-10: Robust Check 4.3: Endog.: 2SLS Instrumenting for Hypoth. Endog. Regressor

```
Instrumental variables (2SLS) regression
```

```
      Source |       SS       df       MS              Number of obs =     100
-------------+------------------------------           F(  8,    91) =   55.55
       Model |  49.0885368     8   6.1360671           Prob > F      =  0.0000
    Residual |  10.0765878    91  .110731734           R-squared     =  0.8297
-------------+------------------------------           Adj R-squared =  0.8147
       Total |  59.1651246    99  .597627521           Root MSE      =  .33276

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
     fertwdi |  -.0113385   .1038503    -0.11   0.913    -.2176245    .1949474
       lgdph |  -.5295359   .0977781    -5.42   0.000    -.7237601   -.3353117
    giniavni |   .0134133   .0054849     2.45   0.016     .0025182    .0243083
       ethnl |   .3552952    .174988     2.03   0.045     .0077031    .7028873
        musl |   .4081836   .1621365     2.52   0.014     .0861193    .7302479
       lpopd |  -.0744772   .0306332    -2.43   0.017    -.1353263   -.0136282
      urbwdi |  -.0068443   .0030415    -2.25   0.027    -.0128859   -.0008028
    pavg0090 |  -.0217749   .0108755    -2.00   0.048    -.0433777   -.0001721
       _cons |   7.762767   1.025335     7.57   0.000     5.726065    9.799468
------------------------------------------------------------------------------
Instrumented:  fertwdi
Instruments:   lgdph giniavni ethnl musl lpopd urbwdi pavg0090 fertwdin
------------------------------------------------------------------------------
```

Model 4-10: Robust Check 4.4: Endog.: Hausman Test for Diff Betw. OLS & 2SLS Coeff.

```
. estimates store ivregfertns

. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090

      Source |       SS       df       MS              Number of obs =     100
-------------+------------------------------           F(  8,    91) =   57.98
       Model |   49.461641     8  6.18270513           Prob > F      =  0.0000
    Residual |  9.70348354    91  .106631687           R-squared     =  0.8360
-------------+------------------------------           Adj R-squared =  0.8216
       Total |  59.1651246    99  .597627521           Root MSE      =  .32655

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4867714   .0745012    -6.53   0.000    -.6347589   -.3387839
    giniavni |   .0112383   .0044173     2.54   0.013     .0024637    .0200128
       ethnl |   .2793156   .1339621     2.09   0.040     .0132163    .5454149
        musl |   .3270487   .1102473     2.97   0.004     .1080561    .5460414
     fertwdi |    .056079   .0360413     1.56   0.123    -.0155127    .1276707
       lpopd |  -.0636556   .0258752    -2.46   0.016    -.1150534   -.0122577
      urbwdi |  -.0057896   .0025854    -2.24   0.028    -.0109252   -.0006541
    pavg0090 |  -.0165231   .0076653    -2.16   0.034    -.0317493    -.001297
       _cons |   7.187911   .5930713    12.12   0.000     6.009848    8.365974
------------------------------------------------------------------------------

. hausman ivregfertns

                ---- Coefficients ----
             |      (b)          (B)            (b-B)     sqrt(diag(V_b-V_B))
             |  ivregfertns       .          Difference          S.E.
-------------+----------------------------------------------------------------
     fertwdi |   -.0113385      .056079       -.0674175        .0973957
       lgdph |   -.5295359    -.4867714       -.0427645        .0633256
    giniavni |    .0134133     .0112383         .002175        .0032514
       ethnl |    .3552952     .2793156        .0759796        .1125831
        musl |    .4081836     .3270487        .0811349        .1188856
```

```
       lpopd |   -.0744772    -.0636556       -.0108217        .0163972
      urbwdi |   -.0068443    -.0057896       -.0010547         .001602
    pavg0090 |   -.0217749    -.0165231       -.0052518        .0077149
------------------------------------------------------------------------------
                           b = consistent under Ho and Ha; obtained from ivreg
         B = inconsistent under Ha, efficient under Ho; obtained from regress

    Test:  Ho:  difference in coefficients not systematic

                  chi2(8) = (b-B)'[(V_b-V_B)^(-1)](b-B)
                          =        0.48
                Prob>chi2 =      0.9999
------------------------------------------------------------------------------
```

Model 4-10: Robust Check 4.2a: Endog: Assoc. Betw. Cand. Inst. & Hypth. Endog. Rgrssr

```
. ivreg limrcom lgdph giniavni ethnl musl (fertwdi = fertwdin) lpopd urbwdi pavg0090 if ctry ~=
"Mongolia" & ctry ~= "Cuba", first

First-stage regressions
-----------------------

      Source |       SS       df       MS              Number of obs =      98
-------------+------------------------------           F(  8,    89) =   27.63
       Model |  175.972422     8  21.9965528           Prob > F      =  0.0000
    Residual |  70.8496209    89  .796063156           R-squared     =  0.7130
-------------+------------------------------           Adj R-squared =  0.6872
       Total |  246.822043    97  2.54455715           Root MSE      =  .89222

------------------------------------------------------------------------------
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4826495    .203513    -2.37   0.020    -.8870255   -.0782736
    giniavni |   .0234178   .0127396     1.84   0.069    -.0018955    .0487312
       ethnl |   .6066413   .3762598     1.61   0.110    -.1409789    1.354262
        musl |   .8108511   .3005376     2.70   0.008     .2136894    1.408013
       lpopd |  -.2025743   .0742168    -2.73   0.008    -.3500415   -.0551072
      urbwdi |  -.0184295    .007207    -2.56   0.012    -.0327496   -.0041095
    pavg0090 |  -.0557026   .0204382    -2.73   0.008    -.0963128   -.0150924
    fertwdin |   .2530702   .0719102     3.52   0.001     .1101861    .3959544
       _cons |   7.293686   1.556362     4.69   0.000     4.201228    10.38614
------------------------------------------------------------------------------
```

Model 4-10: Robust Ck 4.3a: Endog ck: 2SLS using CI as instr for HER, disc 2 hi cooksd

```
Instrumental variables (2SLS) regression

      Source |       SS       df       MS              Number of obs =      98
-------------+------------------------------           F(  8,    89) =   61.89
       Model |  47.5529442     8  5.94411802           Prob > F      =  0.0000
    Residual |  8.52739768    89  .095813457           R-squared     =  0.8479
-------------+------------------------------           Adj R-squared =  0.8343
       Total |  56.0803418    97  .578147854           Root MSE      =  .30954

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
     fertwdi |   .0161559   .0985801     0.16   0.870    -.1797206    .2120324
       lgdph |  -.5410008   .0949131    -5.70   0.000     -.729591   -.3524105
    giniavni |    .012934   .0050922     2.54   0.013      .002816    .0230521
       ethnl |   .3459183   .1614153     2.14   0.035     .0251895    .6666471
        musl |   .4024996   .1482456     2.72   0.008     .1079386    .6970605
```

```
       lpopd |  -.0485969   .0313911    -1.55   0.125    -.1109702    .0137765
      urbwdi |  -.0054045   .0027991    -1.93   0.057    -.0109664    .0001573
    pavg0090 |   -.017745   .0101515    -1.75   0.084    -.0379159    .0024259
       _cons |   7.597964   1.035023     7.34   0.000     5.541395    9.654534
------------------------------------------------------------------------------
Instrumented:  fertwdi
Instruments:   lgdph giniavni ethnl musl lpopd urbwdi pavg0090 fertwdin
------------------------------------------------------------------------------
```

Model 4-10: Robust Check 4.4a: Endog ck: Hausman test, disc 2 hi cooksd

```
. estimates store fertpavgcooks

. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 if ctry ~=
>  "Mongolia" & ctry ~= "Cuba"

      Source |       SS       df       MS              Number of obs =      98
-------------+------------------------------           F(  8,    89) =   63.01
       Model |  47.6642281     8  5.95802851           Prob > F      =  0.0000
    Residual |  8.41611374    89  .094563076           R-squared     =  0.8499
-------------+------------------------------           Adj R-squared =  0.8364
       Total |  56.0803418    97  .578147854           Root MSE      =  .30751

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5161132   .0714755    -7.22   0.000    -.6581336   -.3740929
    giniavni |   .0119774   .0044726     2.68   0.009     .0030905    .0208644
       ethnl |   .3062627   .1269342     2.41   0.018     .0540471    .5584783
        musl |   .3612784   .1063685     3.40   0.001     .1499266    .5726303
     fertwdi |   .0532885   .0342294     1.56   0.123    -.0147247    .1213016
       lpopd |  -.0417948   .0262681    -1.59   0.115    -.0939889    .0103993
      urbwdi |  -.0048982   .0024834    -1.97   0.052    -.0098327    .0000363
    pavg0090 |  -.0149006   .0072323    -2.06   0.042    -.0292711   -.0005302
       _cons |   7.258305   .5939865    12.22   0.000     6.078067    8.438544
------------------------------------------------------------------------------

. hausman fertpavgcooks

                ---- Coefficients ----
             |      (b)          (B)            (b-B)     sqrt(diag(V_b-V_B))
             |  fertpavgco~s      .          Difference          S.E.
-------------+----------------------------------------------------------------
     fertwdi |    .0161559     .0532885       -.0371326        .0924466
       lgdph |   -.5410008    -.5161132       -.0248875        .0624479
    giniavni |     .012934     .0119774        .0009566        .0024344
       ethnl |    .3459183     .3062627        .0396557        .0997127
        musl |    .4024996     .3612784        .0412211        .1032595
       lpopd |   -.0485969    -.0417948       -.0068021        .0171868
      urbwdi |   -.0054045    -.0048982       -.0005063        .0012914
    pavg0090 |    -.017745    -.0149006       -.0028444        .0071237
------------------------------------------------------------------------------
                           b = consistent under Ho and Ha; obtained from ivreg
        B = inconsistent under Ha, efficient under Ho; obtained from regress

    Test:  Ho:  difference in coefficients not systematic

                  chi2(8) = (b-B)'[(V_b-V_B)^(-1)](b-B)
                          =        0.16
                Prob>chi2 =      1.0000
```

Model 4-10: Robust Check 5.1: DepV: change IMR to U5MR (limrcom to lu5mrcom)

```
. regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090, r

Linear regression                                       Number of obs =     100
                                                        F(  8,    91) =   75.51
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8424
                                                        Root MSE      =  .36901

------------------------------------------------------------------------------
             |               Robust
    lu5mrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5015725   .0883809    -5.68   0.000    -.6771303   -.3260146
    giniavni |   .0101864   .0062772     1.62   0.108    -.0022825    .0226554
       ethnl |   .3802363   .1497365     2.54   0.013     .0828031    .6776695
        musl |   .2630106   .1299437     2.02   0.046     .0048933    .5211278
     fertwdi |    .087186   .0373654     2.33   0.022     .0129642    .1614079
       lpopd |  -.0728668   .0363631    -2.00   0.048    -.1450976   -.0006361
      urbwdi |   -.006788   .0026343    -2.58   0.012    -.0120208   -.0015552
    pavg0090 |  -.0228395   .0082716    -2.76   0.007    -.0392701    -.006409
       _cons |   7.543587   .7801584     9.67   0.000     5.993898    9.093276
------------------------------------------------------------------------------
```

Model 4-10: Robust Check 5.2: DepV: Vary source: infant mortality (limrcom to limrwdi)

```
. regress limrwdi lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg0090, r

Linear regression                                       Number of obs =     100
                                                        F(  8,    91) =   74.86
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8538
                                                        Root MSE      =  .30524

------------------------------------------------------------------------------
             |               Robust
     limrwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4839027   .0683187    -7.08   0.000    -.6196093    -.348196
    giniavni |   .0126498   .0051723     2.45   0.016     .0023757    .0229238
       ethnl |    .228057   .1080903     2.11   0.038     .0133488    .4427652
        musl |   .2581117   .1090922     2.37   0.020     .0414134    .4748099
     fertwdi |   .0780943    .029298     2.67   0.009     .0198973    .1362913
       lpopd |  -.0387498   .0254856    -1.52   0.132    -.0893738    .0118742
      urbwdi |  -.0054019   .0023108    -2.34   0.022    -.0099921   -.0008118
    pavg0090 |  -.0156331    .006817    -2.29   0.024    -.0291743   -.0020919
       _cons |   6.937208   .6036286    11.49   0.000     5.738174    8.136242
------------------------------------------------------------------------------
```

Model 4-10: Robust Check 6.3: IndV: Vary source: pavg0090 to pavg7090

```
. regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg7090, r

Linear regression                                       Number of obs =      99
                                                        F(  8,    90) =   61.44
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8384
                                                        Root MSE      =  .32577

------------------------------------------------------------------------------
             |               Robust
```

limrcom	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
lgdpmx	-.5290723	.0768429	-6.89	0.000	-.6817341	-.3764105
giniavni	.0109561	.005088	2.15	0.034	.0008479	.0210642
ethnl	.2223035	.1243942	1.79	0.077	-.0248273	.4694343
musl	.2692508	.1117172	2.41	0.018	.0473051	.4911966
fertwdi	.0549004	.0356836	1.54	0.127	-.0159914	.1257921
lpopd	-.0779222	.0274216	-2.84	0.006	-.1324001	-.0234443
urbwdi	-.0060248	.0020896	-2.88	0.005	-.0101761	-.0018735
pavg7090	-.002637	.0079278	-0.33	0.740	-.018387	.013113
_cons	7.681189	.6830409	11.25	0.000	6.324209	9.038169

Model 4-10: Robust Check 6.4: IndV: Vary source: pavg0090 to free7290

```
. regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi free7290, r

Linear regression                               Number of obs =     103
                                                F(  8,    94) =   78.75
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8424
                                                Root MSE      =  .32466
```

limrcom	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
lgdpmx	-.5253519	.0765954	-6.86	0.000	-.6774338	-.3732699
giniavni	.0095945	.0049039	1.96	0.053	-.0001422	.0193313
ethnl	.2076797	.1204919	1.72	0.088	-.0315598	.4469191
musl	.2730244	.1048528	2.60	0.011	.0648367	.4812121
fertwdi	.077304	.0349021	2.21	0.029	.008005	.1466031
lpopd	-.0812623	.0273329	-2.97	0.004	-.1355324	-.0269923
urbwdi	-.0055939	.0020872	-2.68	0.009	-.009738	-.0014498
free7290	-.0071436	.015189	-0.47	0.639	-.0373016	.0230144
_cons	7.682059	.7264905	10.57	0.000	6.239595	9.124523

Model 4-10: Robust Check 7.1: CtrlV: Vary source: GDP/cap at PPP (lgdph to lgdpmx)

```
. regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg0090, r

Linear regression                               Number of obs =      99
                                                F(  8,    90) =   60.56
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8420
                                                Root MSE      =  .32213
```

limrcom	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
lgdpmx	-.5019397	.0761769	-6.59	0.000	-.6532785	-.3506009
giniavni	.0114217	.0049525	2.31	0.023	.0015828	.0212607
ethnl	.2550003	.1211722	2.10	0.038	.0142707	.49573
musl	.2513139	.1106348	2.27	0.025	.0315185	.4711093
fertwdi	.0430129	.0351706	1.22	0.225	-.0268596	.1128855
lpopd	-.0768658	.0273309	-2.81	0.006	-.1311634	-.0225681
urbwdi	-.0069042	.0021056	-3.28	0.001	-.0110873	-.002721
pavg0090	-.0115757	.0076672	-1.51	0.135	-.026808	.0036566
_cons	7.510387	.6747808	11.13	0.000	6.169817	8.850957

Model 4-10: Robust Check 7.2: CtrlV: Vary source: lgdph to lgdpmx, msg flags

```
. regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg0090 gdpmf, r

Linear regression                                       Number of obs =      99
                                                        F(  9,    89) =   53.55
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8420
                                                        Root MSE      =  .32391

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |  -.5010151   .0767482    -6.53   0.000    -.6535122   -.3485181
    giniavni |   .0113784    .005035     2.26   0.026     .0013739    .0213828
       ethnl |   .2569144   .1219352     2.11   0.038     .0146317     .499197
        musl |   .2518227   .1109953     2.27   0.026     .0312774    .4723681
     fertwdi |   .0422729   .0365693     1.16   0.251    -.0303895    .1149352
       lpopd |  -.0777312   .0293578    -2.65   0.010    -.1360644   -.0193979
      urbwdi |  -.0069709   .0022155    -3.15   0.002     -.011373   -.0025689
    pavg0090 |  -.0114247    .007972    -1.43   0.155    -.0272649    .0044155
       gdpmf |  -.0245773    .178789    -0.14   0.891    -.3798272    .3306726
       _cons |   7.515251    .685738    10.96   0.000     6.152705    8.877798
------------------------------------------------------------------------------
```

Model 4-10: Robust Check 7.3: CtrlV: Vary source: ethnic fragment (ethnl to ethnannx)

```
. regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg0090, r

Linear regression                                       Number of obs =     100
                                                        F(  8,    91) =   73.22
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8332
                                                        Root MSE      =  .32932

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4756842   .0777452    -6.12   0.000    -.6301156   -.3212528
    giniavni |   .0116995    .005693     2.06   0.043     .0003911     .023008
    ethnannx |   .2591176   .1597907     1.62   0.108    -.0582869    .5765222
        musl |   .3182152   .1162123     2.74   0.007     .0873736    .5490567
     fertwdi |   .0714872    .032155     2.22   0.029     .0076152    .1353592
       lpopd |  -.0596525   .0329902    -1.81   0.074    -.1251835    .0058785
      urbwdi |  -.0064106   .0024371    -2.63   0.010    -.0112516   -.0015697
    pavg0090 |   -.013858   .0074637    -1.86   0.067    -.0286838    .0009678
       _cons |   6.995371   .7068534     9.90   0.000     5.591293    8.399448
------------------------------------------------------------------------------
```

Model 4-10: Robust Check 7.4: CtrlV: Vary source: ethnl to ethnannx, msg flags

```
. regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg0090 ethnannf, r

Linear regression                                       Number of obs =     100
                                                        F(  9,    90) =   64.93
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8332
                                                        Root MSE      =   .3311
```

```
------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4799381   .0854265    -5.62   0.000    -.6496527   -.3102235
    giniavni |   .0115432   .0056954     2.03   0.046     .0002284    .0228581
    ethnannx |    .256579   .1627516     1.58   0.118    -.0667555    .5799135
        musl |   .3189059   .1168592     2.73   0.008     .0867446    .5510672
      fertwdi |    .070908   .0326157     2.17   0.032     .0061112    .1357048
       lpopd |  -.0599183   .0329251    -1.82   0.072    -.1253299    .0054932
      urbwdi |  -.0062774   .0025387    -2.47   0.015    -.0113209   -.0012339
    pavg0090 |  -.0138479   .0074976    -1.85   0.068    -.0287432    .0010475
    ethnannf |  -.0240342   .1920181    -0.13   0.901    -.4055118    .3574433
       _cons |   7.035315   .7654262     9.19   0.000     5.514663    8.555968
------------------------------------------------------------------------------
```

Table 2.5: Short-Term Democracy, Pub Health Sp, Service Utilization, and IMR

Table 2.5: Summary of Robustness checks for Models 4-1, 4-2, 5-4, 5-6, 5-7, 5-9, and 5-10

This table gives the t-score of the association between short-term democratic practice and the outcomes indicated at the top of each column, in the context of 16 checks for robustness. The statistical output follows the table. In each check for robustness the 7 socioeconomic "baseline"variables (Model 2-3) are controlled for, just as in the models in Table 2.5.

	Model 5-1	Model 5-2	Model 5-4	Model 5-6	Model 5-7	Model 5-9	Modl 4-10
Dependent variable	Public health spending	Attended births	Female schooling	Family planning	Fertility	Safe water	Infant mortality
Independent variable	Democ 1980-90	Democ 1980-90	Democ 1980-90	Democ 1980-90	Democ 1980-90	Democ 1980-90	Democ 1980-90
Basic Model	0.84	-0.81	0.33	**3.16	***-4.20	**3.20	-0.74
1.1. Specif: Excl fertility		0.34	*2.06			***4.54	-1.56
1.1. Specif: Excl fert, -2 outliers							†-1.75
1.1. Specif: Incl fertility				1.32			
1.2. Specif: Incl fem sch	0.35	-0.90		**2.68	***-4.46	**3.16	-0.64
1.3. Specif: Incl fem lit	0.23	-0.86		**2.64	***-3.78	**3.16	-0.69
1.4. Specif: Incl geogr	1.01	-0.81	0.45	**3.17	***-4.17	**2.98	-0.40
1.5. Specif: Incl reg dum	0.36	0.87	0.41	*2.01	**-2.73	*2.51	-0.49
1.6. Specif: Incl fam plan					†-1.97		
2.1. Imput: msg data flags	0.84	-0.31	0.12	1.22	**-3.24	*2.57	-0.95
3.1. Outliers: rreg	0.05	-0.52	0.44	*2.42	***-3.61	**2.95	-0.65
3.2. Outliers: qreg	0.43	0.25	0.47	**2.85	***-4.11	**2.77	-0.31
3.3. Outliers: cooksd	0.90	-0.51	0.53	**3.20	***-3.77	**3.24	-0.93
4.3. Endog: 2SLS							
4.3a. Endog: 2SLS, -2 outliers							
5.1. DV: lu5mrcom							-1.24

5.2. DV: limrwdi							-0.49
6.3. IV: pavg7090							
6.3a. IV: pavg7090, -2 outliers							
6.4. IV: free7290							
6.4a. IV: free7290, - 2 outliers							
6.5. IV: pol90	1.37	†-1.86	0.69	*2.50	***-3.98	**2.92	0.09
6.5a. IV: pol90, - 2 outliers		*-2.00					
6.6. IV: free8090	-0.88	*2.24	0.10	**-3.28	***3.46	**-3.23	0.32
6.6a. IV: free8090, - 2 outliers		†1.98					
6.7. IV: free90	-0.30	**2.75	-0.18	**-3.05	**2.94	**-2.80	-0.04
6.7a. IV: free90, - 2 outliers		*2.52					
7.1. IV: lgdpmx	0.86	-1.08	-0.18	**2.80	**-3.14	*2.52	0.06
7.2. IV: lgdpmx, mdf	0.82	-1.05	-0.12	**2.80	**-3.24	*2.48	0.04
7.3. IV: ethnannx		-0.83	0.21	**3.15	***-4.24	**3.22	-0.74
7.4. IV: ethnannx, mdf		-0.69	0.35	**3.16	***-4.40	**2.89	-0.28
Basic model clarify							

Table 2.5, Alternative Measures of Short-Term Democracy in Models 5-2 to 5-7
DV = 7 different social services
IV = Alternative measures of short-term democratic practice

Tscores of short-term democratic practice variable by social service predicted

With fertility	deliv	dtp3	mcv	mysf	rtot	wate	sani
pavg8090	-0.81	-1.09	-1.45	0.33		**3.20	-0.28
free8090	*2.24	0.30	0.65	0.10		**-3.23	-0.26
pol90	†-1.86	-1.45	†-1.94	0.69		**2.92	-0.66
free90	**2.75	0.72	0.53	-0.18		**-2.80	-0.10

Without fertility	deliv	dtp3	mcv	mysf	rtot	wate	sani
pavg8090	0.34	-0.32	-0.88	*2.06	**3.16	***4.54	0.48
free8090	1.00	-0.31	0.09	-1.58	**-3.28	***-4.04	-0.88
pol90	-0.50	-0.76	-1.34	*2.33	*2.50	***4.05	0.02
free90	1.59	0.14	0.04	-1.54	**-3.05	***-3.62	-0.69

Table 2.5, Model 5-1: Short-Term Democracy and Public Health Sp/GDP

Model 5-1: Bivariate correlations among independent variables

```
. correlate hlxpuwdi lgdph giniavni age65 lpopd urbwdi pavg8090
```

```
(obs=98)

             | hlxpuwdi    lgdph giniavni    age65    lpopd   urbwdi pavg8090
-------------+------------------------------------------------------------------
    hlxpuwdi |   1.0000
       lgdph |   0.2527   1.0000
    giniavni |   0.0521  -0.0349   1.0000
       age65 |   0.1621   0.2636  -0.1197   1.0000
       lpopd |  -0.1620   0.1550  -0.3009   0.1383   1.0000
      urbwdi |   0.3338   0.8263  -0.0281   0.3669   0.0310   1.0000
    pavg8090 |   0.1255   0.2748   0.2211   0.3051   0.1758   0.1718   1.0000
```

Model 5-1: 5 Socioeconomic variables and public health spending/GDP

```
. regress hlxpuwdi lgdph giniavni lpopd urbwdi age65, r

Linear regression                                      Number of obs =     104
                                                       F(  5,    98) =    4.51
                                                       Prob > F      =  0.0010
                                                       R-squared     =  0.1625
                                                       Root MSE      =  1.2022

------------------------------------------------------------------------------
             |               Robust
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .0001187   .2319224     0.00   1.000    -.4601239    .4603612
    giniavni |   .0031006   .0174605     0.18   0.859    -.0315492    .0377503
       lpopd |  -.1783791   .1034438    -1.72   0.088    -.3836601    .0269018
      urbwdi |   .0179372   .0091102     1.97   0.052    -.0001417    .0360162
       age65 |   .0525015   .0994139     0.53   0.599    -.1447821    .2497852
       _cons |   1.546655   1.637154     0.94   0.347    -1.702223    4.795534
------------------------------------------------------------------------------
```

Model 5-1: 5 socioeconomic variables, short-term democ, and public health spending/GDP

```
. regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg8090, r

Linear regression                                      Number of obs =      98
                                                       F(  6,    91) =    3.17
                                                       Prob > F      =  0.0072
                                                       R-squared     =  0.1536
                                                       Root MSE      =  1.2298

------------------------------------------------------------------------------
             |               Robust
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   -.044529   .2560632    -0.17   0.862    -.5531672    .4641092
    giniavni |  -.0023457   .0183555    -0.13   0.899    -.0388066    .0341152
       lpopd |  -.1728893   .1171897    -1.48   0.144    -.4056722    .0598937
      urbwdi |   .0187736   .0105751     1.78   0.079    -.0022325    .0397798
       age65 |   .0371421   .1098539     0.34   0.736    -.1810692    .2553535
    pavg8090 |   .0215951    .025591     0.84   0.401    -.0292383    .0724284
       _cons |   2.226504   1.919317     1.16   0.249    -1.585983    6.038991
------------------------------------------------------------------------------
```

Model 5-1: Robustness checks

Model 5-1: Robust Check 1.2: Change specification: Include female schooling

```
. regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg8090 mysfx, r

Linear regression                                       Number of obs =      98
                                                        F(  7,    90) =    3.40
                                                        Prob > F      =  0.0028
                                                        R-squared     =  0.2074
                                                        Root MSE      =  1.1966

------------------------------------------------------------------------------
             |               Robust
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   -.288231   .2909684    -0.99   0.325    -.8662905    .2898286
    giniavni |   -.004755   .0166355    -0.29   0.776    -.0378044    .0282945
       lpopd |  -.1764564    .102911    -1.71   0.090    -.3809071    .0279942
      urbwdi |    .016717   .0103307     1.62   0.109    -.0038068    .0372407
       age65 |  -.0574179   .1033721    -0.56   0.580    -.2627847    .1479489
    pavg8090 |   .0090874   .0258379     0.35   0.726    -.0422442     .060419
       mysfx |   .2189277    .090046     2.43   0.017     .0400356    .3978199
       _cons |   3.809034   2.040808     1.87   0.065    -.2453875    7.863456
------------------------------------------------------------------------------
```

Model 5-1: Robust Check 1.3: Change specification: Include female literacy

```
. regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg8090 litfewdi, r

Linear regression                                       Number of obs =      98
                                                        F(  7,    90) =    3.57
                                                        Prob > F      =  0.0020
                                                        R-squared     =  0.2243
                                                        Root MSE      =  1.1839

------------------------------------------------------------------------------
             |               Robust
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.2597415   .2846284    -0.91   0.364    -.8252054    .3057225
    giniavni |  -.0061427   .0164669    -0.37   0.710    -.0388571    .0265718
       lpopd |  -.1841081   .1004905    -1.83   0.070      -.38375    .0155337
      urbwdi |    .016429   .0103469     1.59   0.116    -.0041269    .0369849
       age65 |   -.055357   .1034316    -0.54   0.594    -.2608419    .1501278
    pavg8090 |   .0057214   .0244485     0.23   0.816    -.0428498    .0542925
    litfewdi |   .0178329   .0061175     2.92   0.004     .0056795    .0299863
       _cons |   3.467954   1.984464     1.75   0.084    -.4745312    7.410438
------------------------------------------------------------------------------
```

Model 5-1: Robust Check 1.4: Change specification: Incl geographical var

```
. regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg8090 airdist popcrgs latcap
> ab, r

Linear regression                                       Number of obs =      98
                                                        F(  9,    88) =    2.12
                                                        Prob > F      =  0.0357
                                                        R-squared     =  0.1836
                                                        Root MSE      =  1.2282

------------------------------------------------------------------------------
             |               Robust
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.1936786   .2784483    -0.70   0.489    -.7470361     .359679
```

```
    giniavni |   .0045584   .0177833     0.26   0.798    -.0307822     .039899
       lpopd |   -.199692   .1148581    -1.74   0.086    -.4279484    .0285644
      urbwdi |   .0183181   .0100807     1.82   0.073    -.0017153    .0383514
       age65 |   .0077994   .1122789     0.07   0.945    -.2153312    .2309301
    pavg8090 |   .0252643   .0249087     1.01   0.313    -.0242366    .0747651
     airdist |  -.0000146   .0000666    -0.22   0.826     -.000147    .0001177
     popcrgs |   .0045226   .0045199     1.00   0.320    -.0044598    .0135049
    latcapab |    .019193   .0119274     1.61   0.111    -.0045101    .0428961
       _cons |    2.79829   1.932301     1.45   0.151    -1.041753    6.638332
------------------------------------------------------------------------------
```

Model 5-1: Robust Check 1.5: Change specification: Include regional dummies

```
. regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg8090 afri lati east sout, r

Linear regression                                      Number of obs =      98
                                                       F( 10,    87) =    3.87
                                                       Prob > F      =  0.0002
                                                       R-squared     =  0.1803
                                                       Root MSE      =  1.2377

------------------------------------------------------------------------------
             |               Robust
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .0625732   .3108358     0.20   0.841    -.5552465    .6803929
    giniavni |  -.0109022   .0212212    -0.51   0.609    -.0530816    .0312771
       lpopd |  -.1698586   .1267575    -1.34   0.184    -.4218029    .0820857
      urbwdi |    .009999   .0122913     0.81   0.418    -.0144312    .0344293
       age65 |  -.0042552   .1252098    -0.03   0.973    -.2531234    .2446129
    pavg8090 |   .0096766   .0266008     0.36   0.717    -.0431953    .0625486
        afri |  -.0901388   .4506189    -0.20   0.842    -.9857927    .8055151
        lati |   .5580645   .6476556     0.86   0.391     -.729221     1.84535
        east |  -.0293935   .6276205    -0.05   0.963    -1.276857     1.21807
        sout |  -.4869436   .5116597    -0.95   0.344    -1.503923    .5300354
       _cons |    2.22429   2.237843     0.99   0.323    -2.223665    6.672245
------------------------------------------------------------------------------
```

Model 5-1: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg8090 gdphf, r

Linear regression                                      Number of obs =      98
                                                       F(  6,    91) =    3.17
                                                       Prob > F      =  0.0072
                                                       R-squared     =  0.1536
                                                       Root MSE      =  1.2298

------------------------------------------------------------------------------
             |               Robust
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   -.044529   .2560632    -0.17   0.862    -.5531672    .4641092
    giniavni |  -.0023457   .0183555    -0.13   0.899    -.0388066    .0341152
       lpopd |  -.1728893   .1171897    -1.48   0.144    -.4056722    .0598937
      urbwdi |   .0187736   .0105751     1.78   0.079    -.0022325    .0397798
       age65 |   .0371421   .1098539     0.34   0.736    -.1810692    .2553535
    pavg8090 |   .0215951    .025591     0.84   0.401    -.0292383    .0724284
       gdphf |  (dropped)
       _cons |   2.226504   1.919317     1.16   0.249    -1.585983    6.038991
------------------------------------------------------------------------------
```

Model 5-1: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg8090

   Huber iteration 1:  maximum difference in weights = .73435493
   Huber iteration 2:  maximum difference in weights = .18744406
   Huber iteration 3:  maximum difference in weights = .10170959
   Huber iteration 4:  maximum difference in weights = .02451339
Biweight iteration 5:  maximum difference in weights = .28389388
Biweight iteration 6:  maximum difference in weights = .03811621
Biweight iteration 7:  maximum difference in weights = .01789785
Biweight iteration 8:  maximum difference in weights = .00741461

Robust regression                                       Number of obs =      98
                                                        F(  6,    91) =    2.00
                                                        Prob > F      =  0.0733

------------------------------------------------------------------------------
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .1133537   .2155904     0.53   0.600    -.3148902    .5415976
    giniavni |   .0094053    .012784     0.74   0.464    -.0159885    .0347991
       lpopd |  -.0783364   .0770679    -1.02   0.312    -.2314224    .0747497
      urbwdi |   .0091218   .0085613     1.07   0.289    -.0078842    .0261278
       age65 |   .0479418   .0795686     0.60   0.548    -.1101115     .205995
    pavg8090 |   .0010579   .0194208     0.05   0.957    -.0375191     .039635
       _cons |   .2695327   1.601664     0.17   0.867    -2.911977    3.451042
------------------------------------------------------------------------------
```

Model 5-1: Robust Check 3.2: Outlier checks: Median regression

```
. qreg hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg8090
Iteration  1:  WLS sum of weighted deviations =  86.893729

Iteration  1: sum of abs. weighted deviations =   159.1117
Iteration  2: sum of abs. weighted deviations =  85.492554
Iteration  3: sum of abs. weighted deviations =  83.331953
Iteration  4: sum of abs. weighted deviations =  82.725568
Iteration  5: sum of abs. weighted deviations =  82.167993
Iteration  6: sum of abs. weighted deviations =  81.741041
Iteration  7: sum of abs. weighted deviations =  81.737696
Iteration  8: sum of abs. weighted deviations =  81.736664
Iteration  9: sum of abs. weighted deviations =  81.731174
Iteration 10: sum of abs. weighted deviations =  81.707722
Iteration 11: sum of abs. weighted deviations =  81.698392
Iteration 12: sum of abs. weighted deviations =   81.66782
Iteration 13: sum of abs. weighted deviations =  81.560354
Iteration 14: sum of abs. weighted deviations =  81.558538

Median regression                                   Number of obs =        98
  Raw sum of deviations     88.1 (about 1.7)
  Min sum of deviations 81.55854                    Pseudo R2     =    0.0743

------------------------------------------------------------------------------
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .2807596   .1893275     1.48   0.142    -.0953161    .6568354
    giniavni |   .0095522    .011475     0.83   0.407    -.0132414    .0323458
       lpopd |  -.1500619   .0695788    -2.16   0.034    -.2882716   -.0118522
      urbwdi |   .0031281   .0075611     0.41   0.680    -.0118912    .0181474
       age65 |   .0689822   .0730555     0.94   0.348    -.0761335     .214098
    pavg8090 |   .0076041   .0175104     0.43   0.665    -.0271782    .0423864
```

```
       _cons |  -.6280308   1.388653    -0.45   0.652    -3.386418    2.130357
------------------------------------------------------------------------------
```

Model 5-1: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd

```
. regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pavg8090 if ctry ~= "Mongolia" & ctry ~=
"Cuba", r

Linear regression                                       Number of obs =      96
                                                        F(  6,    89) =    3.12
                                                        Prob > F      =  0.0080
                                                        R-squared     =  0.1468
                                                        Root MSE      =  1.1341

------------------------------------------------------------------------------
             |               Robust
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .0586574   .2447327     0.24   0.811    -.4276214    .5449361
    giniavni |   .0179158   .0138126     1.30   0.198    -.0095294    .0453611
       lpopd |  -.0745465   .0844495    -0.88   0.380    -.2423459    .0932528
      urbwdi |   .0139234   .0101251     1.38   0.173     -.006195    .0340417
       age65 |  -.0282759   .0927554    -0.30   0.761    -.2125789     .156027
    pavg8090 |   .0219311    .024464     0.90   0.372    -.0266783    .0705404
       _cons |   .5632649   1.551867     0.36   0.717    -2.520262    3.646792
------------------------------------------------------------------------------
```

Model 5-1: Robust Check 6.5: Vary data source: IV: pavg8090 to pol90

```
. regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 pol90, r

Linear regression                                       Number of obs =     101
                                                        F(  6,    94) =    3.53
                                                        Prob > F      =  0.0034
                                                        R-squared     =  0.1811
                                                        Root MSE      =  1.2013

------------------------------------------------------------------------------
             |               Robust
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   -.090496   .2589425    -0.35   0.728    -.6046324    .4236404
    giniavni |   -.005136   .0177147    -0.29   0.773     -.040309     .030037
       lpopd |  -.1782962   .1116742    -1.60   0.114     -.400028    .0434355
      urbwdi |   .0197008   .0103917     1.90   0.061    -.0009322    .0403338
       age65 |   .0039295   .1159426     0.03   0.973    -.2262773    .2341363
       pol90 |   .0334189   .0244057     1.37   0.174    -.0150392    .0818769
       _cons |   2.779153   2.058157     1.35   0.180    -1.307366    6.865672
------------------------------------------------------------------------------
```

Model 5-1: Robust Check 6.6: Vary data source: IV: pavg8090 to free8090

```
. regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 free8090, r

Linear regression                                       Number of obs =     103
                                                        F(  6,    96) =    3.87
                                                        Prob > F      =  0.0017
                                                        R-squared     =  0.1751
                                                        Root MSE      =  1.2048

------------------------------------------------------------------------------
```

```
             |               Robust
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.0798614   .2283283    -0.35   0.727    -.5330894    .3733666
    giniavni |  -.0008902   .0178076    -0.05   0.960    -.0362381    .0344577
       lpopd |  -.1838466   .1112816    -1.65   0.102    -.4047387    .0370456
      urbwdi |   .0195495    .009032     2.16   0.033     .0016212    .0374778
       age65 |   .0432443   .1052226     0.41   0.682     -.165621    .2521096
    free8090 |  -.0480627   .0546636    -0.88   0.381    -.1565691    .0604437
       _cons |   2.794521   1.976555     1.41   0.161     -1.12891    6.717953
------------------------------------------------------------------------------
```

Model 5-1: Robust Check 6.7: Vary data source: IV: pavg8090 to free90

```
. regress hlxpuwdi lgdph giniavni lpopd urbwdi age65 free90, r

Linear regression                                      Number of obs =     103
                                                       F(  6,    96) =    3.76
                                                       Prob > F      =  0.0021
                                                       R-squared     =  0.1671
                                                       Root MSE      =  1.2107

------------------------------------------------------------------------------
             |               Robust
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.0203339   .2253783    -0.09   0.928    -.4677063    .4270386
    giniavni |   .0025084   .0176833     0.14   0.887    -.0325926    .0376094
       lpopd |  -.1674122   .1113446    -1.50   0.136    -.3884294    .0536051
      urbwdi |   .0185797   .0090033     2.06   0.042     .0007082    .0364511
       age65 |   .0552707   .1095711     0.50   0.615    -.1622262    .2727676
      free90 |  -.0140546   .0476043    -0.30   0.768    -.1085483    .0804392
       _cons |   1.793869   1.870899     0.96   0.340    -1.919837    5.507575
------------------------------------------------------------------------------
```

Model 5-1: Robust Check 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)

```
. regress hlxpuwdi lgdpmx giniavni lpopd urbwdi age65 pavg8090, r

Linear regression                                      Number of obs =      97
                                                       F(  6,    90) =    3.20
                                                       Prob > F      =  0.0068
                                                       R-squared     =  0.1539
                                                       Root MSE      =  1.2359

------------------------------------------------------------------------------
             |               Robust
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |  -.0867604   .2934125    -0.30   0.768    -.6696755    .4961548
    giniavni |  -.0018155   .0185925    -0.10   0.922    -.0387528    .0351217
       lpopd |  -.1689137   .1154923    -1.46   0.147    -.3983594     .060532
      urbwdi |   .0200474   .0112677     1.78   0.079    -.0023379    .0424327
       age65 |   .0392516   .1107518     0.35   0.724    -.1807763    .2592794
    pavg8090 |   .0234944   .0272446     0.86   0.391    -.0306318    .0776207
       _cons |   2.450877   2.259653     1.08   0.281    -2.038317    6.940072
------------------------------------------------------------------------------
```

Model 5-1: Robust Check 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

```
. regress hlxpuwdi lgdpmx giniavni lpopd urbwdi age65 pavg8090 gdpmf, r

Linear regression                                      Number of obs =      97
                                                       F(  7,    89) =    3.50
                                                       Prob > F      =  0.0023
                                                       R-squared     =  0.1635
                                                       Root MSE      =  1.2357

------------------------------------------------------------------------------
             |               Robust
    hlxpuwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |  -.1583885   .2997231    -0.53   0.599    -.7539319    .4371548
    giniavni |  -.0004555   .0189753    -0.02   0.981     -.038159     .037248
       lpopd |  -.1472429   .1216319    -1.21   0.229    -.3889228     .094437
      urbwdi |   .0228887   .0114668     2.00   0.049     .0001043    .0456731
       age65 |   .0419482   .1102737     0.38   0.705    -.1771633    .2610596
    pavg8090 |   .0224727   .0275446     0.82   0.417    -.0322578    .0772033
       gdpmf |    .776802   .4878888     1.59   0.115    -.1926227    1.746227
       _cons |   2.695819   2.269219     1.19   0.238     -1.81307    7.204708
------------------------------------------------------------------------------
```

Table 2.5, Model 5-2: Short-Term Democracy and Trained Attendance at Birth

Model 5-2: Bivariate correlations among independent variables

```
. correlate delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090
(obs=97)

             | delivcom    lgdph giniavni    ethnl     musl  fertwdi    lpopd   urbwdi pavg8090
-------------+---------------------------------------------------------------------------
    delivcom |   1.0000
       lgdph |   0.7105   1.0000
    giniavni |  -0.0672  -0.0360   1.0000
       ethnl |  -0.4199  -0.5240   0.2062   1.0000
        musl |   0.0747   0.3170  -0.3042  -0.2994   1.0000
     fertwdi |  -0.6711  -0.6473   0.1553   0.4799   0.0925   1.0000
       lpopd |   0.0784   0.1585  -0.2976  -0.1534  -0.0957  -0.3710   1.0000
      urbwdi |   0.7028   0.8266  -0.0309  -0.5101   0.3170  -0.5688   0.0375   1.0000
    pavg8090 |   0.2471   0.2775   0.2262  -0.0590  -0.2907  -0.4697   0.1680   0.1772
```

Model 5-2: Trained attendance at birth predicted by 7 baseline var only

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi

      Source |       SS       df       MS              Number of obs =     103
-------------+------------------------------           F(  7,    95) =   25.02
       Model |  51477.8811     7  7353.98302           Prob > F      =  0.0000
    Residual |  27921.3227    95   293.90866           R-squared     =  0.6483
-------------+------------------------------           Adj R-squared =  0.6224
       Total |  79399.2039   102  778.423567           Root MSE      =  17.144

------------------------------------------------------------------------------
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   7.711868   3.846366     2.00   0.048     .0758649    15.34787
    giniavni |   -.234277   .2269607    -1.03   0.305     -.684851    .2162971
       ethnl |   .9348624   6.572201     0.14   0.887    -12.11261    13.98233
        musl |  -8.358008   5.744649    -1.45   0.149    -19.76258    3.046562
     fertwdi |  -6.312923   1.733646    -3.64   0.000    -9.754646   -2.871199
       lpopd |  -2.495193   1.288191    -1.94   0.056    -5.052575    .0621895
      urbwdi |   .3812785   .1301847     2.93   0.004     .1228292    .6397277
```

```
       _cons |   35.74748   30.51346     1.17   0.244     -24.8294    96.32436
------------------------------------------------------------------------------
```

Model 5-2: Trained attendance at birth predicted by 7 baseline var. and short-term democ.

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090, r

Linear regression                                      Number of obs =      97
                                                       F(  8,    88) =   29.36
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6394
                                                       Root MSE      =  17.136

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   9.487938   4.378062     2.17   0.033     .7874607    18.18842
    giniavni |  -.1788285   .2249228    -0.80   0.429    -.6258153    .2681583
       ethnl |   2.078078   6.670037     0.31   0.756    -11.17722    15.33338
        musl |  -8.879308   5.380572    -1.65   0.102    -19.57206    1.813448
     fertwdi |  -6.206583   2.126444    -2.92   0.004    -10.43244   -1.980723
       lpopd |  -2.492514   1.299569    -1.92   0.058    -5.075134    .0901062
      urbwdi |   .3605062   .1391683     2.59   0.011     .0839385    .6370739
    pavg8090 |   -.296606   .3643896    -0.81   0.418    -1.020754    .4275417
       _cons |   18.79472   34.82103     0.54   0.591    -50.40476    87.99421
------------------------------------------------------------------------------
```

Model 5-2: Robustness checks

Model 5-2: Robust Check 1.1: Change specification: Exclude fertility

```
. regress delivcom lgdph giniavni ethnl musl lpopd urbwdi pavg8090, r

Linear regression                                      Number of obs =      97
                                                       F(  7,    89) =   26.93
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.5966
                                                       Root MSE      =  18.023

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   13.74868    3.89886     3.53   0.001     6.001731    21.49563
    giniavni |  -.4076472   .2318324    -1.76   0.082    -.8682932    .0529989
       ethnl |  -4.063432   6.620533    -0.61   0.541    -17.21829    9.091425
        musl |  -16.68023   4.666718    -3.57   0.001     -25.9529   -7.407556
       lpopd |  -1.530946   1.410447    -1.09   0.281    -4.333473    1.271582
      urbwdi |   .4458228   .1467065     3.04   0.003     .1543201    .7373254
    pavg8090 |   .1115355   .3294875     0.34   0.736    -.5431491    .7662201
       _cons |  -35.04968   27.94609    -1.25   0.213    -90.57797    20.47862
------------------------------------------------------------------------------
```

Model 5-2: Robust Check 1.2: Change specification: Include mean years of female school

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 mysfx, r

Linear regression                                      Number of obs =      97
                                                       F(  9,    87) =   29.60
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6690
```

```
                                                      Root MSE      =  16.513

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   6.681606   4.347886     1.54   0.128    -1.960289     15.3235
    giniavni |  -.1931298   .2144897    -0.90   0.370    -.6194514    .2331918
       ethnl |   5.757942   5.963945     0.97   0.337    -6.096044    17.61193
        musl |   -2.92416   5.138555    -0.57   0.571    -13.13759    7.289274
     fertwdi |  -3.556324   2.521275    -1.41   0.162    -8.567632    1.454983
       lpopd |  -1.743985   1.189884    -1.47   0.146    -4.109007    .6210381
      urbwdi |   .3060443   .1228674     2.49   0.015     .0618321    .5502565
    pavg8090 |  -.3341238    .370949    -0.90   0.370    -1.071425    .4031775
       mysfx |   4.196973   1.470049     2.85   0.005     1.275091    7.118856
       _cons |   9.783117   35.78809     0.27   0.785    -61.34958    80.91582
------------------------------------------------------------------------------
```

Model 5-2: Robust Check 1.3: Change specification: Include female literacy

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 litfewdi, r

Linear regression                                     Number of obs =      97
                                                      F(  9,    87) =   32.32
                                                      Prob > F      =  0.0000
                                                      R-squared     =  0.6894
                                                      Root MSE      =  15.996

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   7.036601   4.051881     1.74   0.086    -1.016951    15.09015
    giniavni |  -.2449186   .2113314    -1.16   0.250    -.6649626    .1751254
       ethnl |   8.795772   6.143264     1.43   0.156     -3.41463    21.00617
        musl |    .066868    5.04242     0.01   0.989    -9.955488    10.08922
     fertwdi |  -2.224167   2.069175    -1.07   0.285    -6.336876    1.888542
       lpopd |  -1.460916   1.113254    -1.31   0.193    -3.673629    .7517963
      urbwdi |   .3026299   .1269034     2.38   0.019     .0503956    .5548642
    pavg8090 |  -.3285479   .3803575    -0.86   0.390     -1.08455    .4274539
    litfewdi |    .426059   .1171972     3.64   0.000     .1931168    .6590012
       _cons |  -8.431968   32.00366    -0.26   0.793     -72.0427    55.17876
------------------------------------------------------------------------------
```

Model 5-2: Robust Check 1.4: Change specification: Incl geographical variables

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 airdist popcrgs latcapab,
r

Linear regression                                     Number of obs =      97
                                                      F( 11,    85) =   23.65
                                                      Prob > F      =  0.0000
                                                      R-squared     =  0.6481
                                                      Root MSE      =  17.225

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   7.903426   4.540214     1.74   0.085    -1.123735    16.93059
    giniavni |  -.2368601   .2343243    -1.01   0.315    -.7027594    .2290393
       ethnl |   .9941119   6.661139     0.15   0.882    -12.25002    14.23824
```

```
       musl |  -8.463365   6.198475    -1.37   0.176    -20.78759    3.860864
    fertwdi |  -6.100811   2.448678    -2.49   0.015    -10.96944   -1.232185
      lpopd |  -2.452378   1.479031    -1.66   0.101    -5.393089    .4883324
     urbwdi |   .4021579   .1437964     2.80   0.006     .1162522    .6880636
   pavg8090 |  -.3011965   .3723551    -0.81   0.421    -1.041538    .4391451
    airdist |   .0014441   .0009607     1.50   0.136    -.0004659    .0033541
    popcrgs |   .0323843   .0714677     0.45   0.652    -.1097126    .1744811
   latcapab |   .0815715   .2017662     0.40   0.687    -.3195937    .4827367
      _cons |   20.82473    38.0072     0.55   0.585    -54.74376    96.39322
------------------------------------------------------------------------------
```

Model 5-2: Robust Check 1.5: Change specification: Include regional dummies

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 afri lati east sout, r

Linear regression                                      Number of obs =      97
                                                       F( 12,    84) =   27.23
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7025
                                                       Root MSE      =  15.933

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   5.295262   5.314289     1.00   0.322    -5.272784    15.86331
    giniavni |  -.1711253   .2277936    -0.75   0.455    -.6241179    .2818672
       ethnl |  -12.58931   7.697787    -1.64   0.106     -27.8972    2.718588
        musl |  -17.10664   8.012163    -2.14   0.036     -33.0397   -1.173575
     fertwdi |  -7.903362    2.46647    -3.20   0.002    -12.80821   -2.998516
       lpopd |   -2.64811   1.182095    -2.24   0.028    -4.998836   -.2973844
      urbwdi |   .4998334   .1591317     3.14   0.002     .1833827    .8162842
    pavg8090 |   .3147804   .3604982     0.87   0.385    -.4021099    1.031671
        afri |   1.213623   9.318198     0.13   0.897    -17.31664    19.74388
        lati |  -24.93689   11.14395    -2.24   0.028    -47.09786   -2.775913
        east |  -8.391321   10.51461    -0.80   0.427    -29.30078    12.51814
        sout |   -17.2238   14.28616    -1.21   0.231     -45.6334     11.1858
       _cons |   69.96475   45.04697     1.55   0.124    -19.61609    159.5456
------------------------------------------------------------------------------
```

Model 5-2: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 gdphf giniavnf ethnlf, r

Linear regression                                      Number of obs =      97
                                                       F( 10,    86) =   27.37
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6602
                                                       Root MSE      =  16.827

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   8.342504   3.958529     2.11   0.038     .4732095     16.2118
    giniavni |  -.0504416   .2356084    -0.21   0.831    -.5188157    .4179325
       ethnl |   3.882999   6.854012     0.57   0.573    -9.742325    17.50832
        musl |  -7.953942   5.524671    -1.44   0.154    -18.93662     3.02874
     fertwdi |  -7.289499   1.997973    -3.65   0.000    -11.26134   -3.317659
       lpopd |  -2.417676   1.354251    -1.79   0.078    -5.109839    .2744865
      urbwdi |   .3091891   .1424784     2.17   0.033     .0259515    .5924267
    pavg8090 |  -.1100846   .3597407    -0.31   0.760    -.8252253    .6050562
```

```
       gdphf |  (dropped)
    giniavnf |   7.647577   5.295365     1.44   0.152    -2.879259    18.17441
      ethnlf |   9.671626   5.135091     1.88   0.063    -.5365971    19.87985
       _cons |   26.13918    32.1083     0.81   0.418       -37.69    89.96837
------------------------------------------------------------------------------
```

Model 5-2: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090

   Huber iteration 1:  maximum difference in weights = .49275005
   Huber iteration 2:  maximum difference in weights = .06942038
   Huber iteration 3:  maximum difference in weights = .04776574
Biweight iteration 4:  maximum difference in weights = .15831064
Biweight iteration 5:  maximum difference in weights = .0210404
Biweight iteration 6:  maximum difference in weights = .0062135

Robust regression                                     Number of obs =      97
                                                      F(  8,    88) =   17.36
                                                      Prob > F      =  0.0000

------------------------------------------------------------------------------
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   10.83778   4.289634     2.53   0.013     2.313032    19.36252
    giniavni |  -.2420362   .2545878    -0.95   0.344    -.7479759    .2639034
       ethnl |   1.931389    7.57556     0.25   0.799    -13.12344    16.98622
        musl |  -9.494007   6.325604    -1.50   0.137    -22.06482    3.076803
     fertwdi |  -5.876962   2.060976    -2.85   0.005    -9.972719   -1.781205
       lpopd |  -2.534856   1.477337    -1.72   0.090    -5.470753    .4010415
      urbwdi |   .3302358   .1526119     2.16   0.033     .0269516    .6335199
    pavg8090 |  -.1991118   .3820793    -0.52   0.604     -.958414    .5601905
       _cons |   12.26399   33.87863     0.36   0.718    -55.06267    79.59066
------------------------------------------------------------------------------
```

Model 5-2: Robust Check 3.2: Outlier checks: Median regression

```
. qreg delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090
Iteration  1:  WLS sum of weighted deviations =  1267.2664

Iteration  1: sum of abs. weighted deviations =  1250.3876
Iteration  2: sum of abs. weighted deviations =  1244.7952
Iteration  3: sum of abs. weighted deviations =  1234.8299
Iteration  4: sum of abs. weighted deviations =  1227.7493
Iteration  5: sum of abs. weighted deviations =  1226.2955
Iteration  6: sum of abs. weighted deviations =   1226.198
Iteration  7: sum of abs. weighted deviations =  1226.1856
Iteration  8: sum of abs. weighted deviations =  1225.8541
Iteration  9: sum of abs. weighted deviations =   1225.804
Iteration 10: sum of abs. weighted deviations =  1225.6361
Iteration 11: sum of abs. weighted deviations =  1225.2593
Iteration 12: sum of abs. weighted deviations =  1225.2548

Median regression                                   Number of obs =        97
  Raw sum of deviations     2243 (about 61)
  Min sum of deviations 1225.255                    Pseudo R2     =    0.4537

------------------------------------------------------------------------------
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   10.90491   4.726652     2.31   0.023     1.511684    20.29814
    giniavni |  -.3310151     .28487    -1.16   0.248    -.8971344    .2351042
```

```
       ethnl |  -.2529939   8.357133    -0.03   0.976    -16.86104    16.35505
        musl |  -8.285492   6.749325    -1.23   0.223    -21.69836    5.127374
     fertwdi |  -5.866495   2.248195    -2.61   0.011    -10.33431   -1.39868
       lpopd |  -3.723847    1.59909    -2.33   0.022    -6.901703   -.5459915
      urbwdi |   .2963646   .1697762     1.75   0.084    -.0410299    .6337592
    pavg8090 |   .1003085   .4043293     0.25   0.805     -.703211     .903828
       _cons |    24.4296   37.48725     0.65   0.516    -50.06843    98.92763
------------------------------------------------------------------------------
```

Model 5-2: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 if ctry ~= "Oman" & ctry
~= "Myanmar", r

Linear regression                               Number of obs =      95
                                                F(  8,    86) =   29.45
                                                Prob > F      =  0.0000
                                                R-squared     =  0.6656
                                                Root MSE      =  16.438

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   9.225436   3.947293     2.34   0.022     1.378476     17.0724
    giniavni |  -.1847457   .2154604    -0.86   0.394    -.6130667    .2435754
       ethnl |   3.824271   6.655702     0.57   0.567    -9.406827    17.05537
        musl |  -9.168614   5.191271    -1.77   0.081    -19.48852    1.151291
     fertwdi |   -6.03315   1.855144    -3.25   0.002    -9.721053   -2.345247
       lpopd |  -2.315702   1.331822    -1.74   0.086    -4.963277    .3318739
      urbwdi |   .3908782    .139891     2.79   0.006      .112784    .6689724
    pavg8090 |  -.1819486   .3545516    -0.51   0.609    -.8867739    .5228767
       _cons |   17.20979   31.50633     0.55   0.586    -45.42272     79.8423
------------------------------------------------------------------------------
```

Model 5-2: Robust Check 6.5: IndV: Vary source: pavg8090 to pol90

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pol90, r

Linear regression                               Number of obs =     100
                                                F(  8,    91) =   32.42
                                                Prob > F      =  0.0000
                                                R-squared     =  0.6483
                                                Root MSE      =  17.116

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   8.885029   4.285265     2.07   0.041     .3728761    17.39718
    giniavni |  -.1076134   .2227663    -0.48   0.630    -.5501114    .3348845
       ethnl |   1.076919    6.23556     0.17   0.863    -11.30926    13.46309
        musl |  -9.786274   5.559826    -1.76   0.082    -20.83019    1.257638
     fertwdi |  -7.444659   2.060387    -3.61   0.000    -11.53737   -3.351954
       lpopd |  -2.377928   1.301591    -1.83   0.071    -4.963379    .2075238
      urbwdi |    .350498    .131447     2.67   0.009     .0893947    .6116013
       pol90 |  -.5717053   .3074487    -1.86   0.066    -1.182414    .0390036
       _cons |   27.02874   33.87398     0.80   0.427    -40.25775    94.31524
------------------------------------------------------------------------------
```

Model 5-2: Robust Ck 6.5a: IndV: Vary source: pavg8090 to pol90, disc 2 highst cooksd

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pol90 if ctry ~= "Oman" & ctry ~=
"Bangladesh", r

Linear regression                                       Number of obs =      98
                                                        F(  8,    89) =   32.37
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.6682
                                                        Root MSE      =   16.41

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   5.356492   4.123879     1.30   0.197    -2.837567    13.55055
    giniavni |  -.0441928   .2263185    -0.20   0.846    -.4938829    .4054972
       ethnl |  -.0993243   5.785725    -0.02   0.986    -11.59544    11.39679
        musl |  -8.991848    5.75786    -1.56   0.122    -20.43259    2.448897
     fertwdi |  -8.768573   2.006824    -4.37   0.000    -12.75609   -4.781056
       lpopd |  -1.503897   1.288519    -1.17   0.246    -4.064156    1.056363
      urbwdi |   .3688475   .1287791     2.86   0.005     .1129661    .6247288
       pol90 |  -.6013814   .3001658    -2.00   0.048    -1.197804   -.0049584
       _cons |   53.69549   32.50057     1.65   0.102    -10.88246    118.2734
------------------------------------------------------------------------------
```

Model 5-2: Robust Check 6.6: IndV: Vary source: pavg8090 to free8090

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi free8090, r

Linear regression                                       Number of obs =     102
                                                        F(  8,    93) =   35.52
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.6626
                                                        Root MSE      =  16.792

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   9.765679   4.114634     2.37   0.020     1.594831    17.93653
    giniavni |  -.0821479   .2178631    -0.38   0.707    -.5147808    .3504851
       ethnl |   2.916046   6.234581     0.47   0.641    -9.464596    15.29669
        musl |  -9.512671   5.239754    -1.82   0.073    -19.91778    .8924417
     fertwdi |  -7.595529   1.967473    -3.86   0.000    -11.50254   -3.688518ddd
       lpopd |  -1.897593    1.27334    -1.49   0.140    -4.426194    .6310087
      urbwdi |    .358417   .1198503     2.99   0.004      .120418     .596416
    free8090 |   1.66682   .7451324     2.24   0.028     .1871344    3.146505
       _cons |   1.644578   34.54008     0.05   0.962    -66.94517    70.23433
------------------------------------------------------------------------------
```

Model 5-2: Robust Ck 6.6a: IndV: Vary source: pavg8090 to free8090, - 2 highst cooksd

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi free8090 if ctry ~= "Oman" & ctry
~= "Myanmar", r

Linear regression                                       Number of obs =     100
                                                        F(  8,    91) =   35.53
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.6828
                                                        Root MSE      =  16.225

------------------------------------------------------------------------------
```

```
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   8.764798   3.694607     2.37   0.020     1.425916    16.10368
    giniavni |    -.07911   .2064449    -0.38   0.702    -.4891875    .3309675
       ethnl |   4.306073   6.167613     0.70   0.487    -7.945132    16.55728
        musl |  -9.576064   5.090271    -1.88   0.063    -19.68726    .5351341
     fertwdi |  -7.691235   1.718499    -4.48   0.000    -11.10482   -4.277648
       lpopd |  -1.703448   1.302483    -1.31   0.194    -4.290671    .8837748
      urbwdi |   .3851703    .118837     3.24   0.002     .1491152    .6212254
    free8090 |   1.422841   .7189345     1.98   0.051    -.0052344    2.850916
       _cons |   8.869735    32.3331     0.27   0.784    -55.35599    73.09546
------------------------------------------------------------------------------
```

Model 5-2: Robust Check 6.7: IndV: Vary source: pavg8090 to free90

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi free90, r

Linear regression                                      Number of obs =     102
                                                       F(  8,    93) =   33.93
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6705
                                                       Root MSE      =  16.596

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   9.319689   4.007977     2.33   0.022     1.360641    17.27874
    giniavni |  -.0443747   .2117794    -0.21   0.834    -.4649268    .3761773
       ethnl |   2.540852   6.163883     0.41   0.681    -9.699398     14.7811
        musl |  -8.738945    5.29871    -1.65   0.102    -19.26113    1.783242
     fertwdi |  -7.674228   1.942223    -3.95   0.000     -11.5311   -3.817358
       lpopd |  -1.842929   1.244081    -1.48   0.142    -4.313428    .6275699
      urbwdi |   .3798942   .1154408     3.29   0.001     .1506516    .6091369
      free90 |   1.648433   .5987814     2.75   0.007     .4593714    2.837494
       _cons |   3.024597   33.02241     0.09   0.927    -62.55137    68.60057
------------------------------------------------------------------------------
```

Model 5-2: Robust Ck 6.7a: IndV: Vary source: pavg8090 to free90, disc 2 highst cooksd

```
. regress delivcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi free90 if ctry ~= "Oman" & ctry ~=
"Myanmar", r

Linear regression                                      Number of obs =     100
                                                       F(  8,    91) =   34.23
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6899
                                                       Root MSE      =  16.042

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   8.383285   3.552004     2.36   0.020     1.327665    15.43891
    giniavni |  -.0409187   .2000934    -0.20   0.838    -.4383796    .3565423
       ethnl |   4.011298   6.116853     0.66   0.514    -8.139079    16.16168
        musl |  -8.890945   5.141974    -1.73   0.087    -19.10484    1.322954
     fertwdi |  -7.816379     1.7017    -4.59   0.000     -11.1966   -4.436161
       lpopd |  -1.644843   1.272243    -1.29   0.199    -4.171999    .8823121
      urbwdi |   .4031708   .1146867     3.52   0.001     .1753599    .6309818
      free90 |   1.451834   .5764639     2.52   0.014     .3067596    2.596909
```

```
       _cons |   9.604206   30.51034     0.31   0.754    -51.00083    70.20925
------------------------------------------------------------------------------
```

Model 5-2: Robust Check 7.1: CtrlV: Vary source: GDP/cap at PPP (lgdph to lgdpmx)

```
. regress delivcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg8090, r

Linear regression                                      Number of obs =      96
                                                       F(  8,    87) =   28.31
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6290
                                                       Root MSE      =  17.214

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |   8.608286   4.478649     1.92   0.058    -.2935141    17.51009
    giniavni |  -.2033526   .2225254    -0.91   0.363    -.6456459    .2389407
       ethnl |   1.455551   6.802329     0.21   0.831    -12.06481    14.97592
        musl |  -7.527917   5.154824    -1.46   0.148    -17.77369    2.717853
     fertwdi |  -6.340346   2.111616    -3.00   0.003    -10.53741   -2.143282
       lpopd |  -2.552635   1.349917    -1.89   0.062    -5.235741    .1304702
      urbwdi |   .3733298   .1347404     2.77   0.007     .1055186    .6411409
    pavg8090 |  -.4009975   .3716803    -1.08   0.284    -1.139752    .3377574
       _cons |   26.56069   36.95508     0.72   0.474    -46.89153    100.0129
------------------------------------------------------------------------------
```

Model 5-2: Robust Check 7.2: CtrlV: Vary source: lgdph to lgdpmx, msg flags

```
. regress delivcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 gdpmf, r

Linear regression                                      Number of obs =      96
                                                       F(  9,    86) =   25.45
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6297
                                                       Root MSE      =  17.297

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |   8.281187   4.421949     1.87   0.065    -.5093565    17.07173
    giniavni |  -.1988394   .2252152    -0.88   0.380    -.6465524    .2488736
       ethnl |    .973788   6.752023     0.14   0.886    -12.44879    14.39637
        musl |  -7.558589   5.162456    -1.46   0.147    -17.82121    2.704033
     fertwdi |  -6.147602   2.212297    -2.78   0.007     -10.5455   -1.749701
       lpopd |  -2.387257   1.397341    -1.71   0.091    -5.165079    .3905645
      urbwdi |   .3910866   .1343134     2.91   0.005     .1240804    .6580927
    pavg8090 |  -.3899552   .3731358    -1.05   0.299    -1.131725    .3518141
       gdpmf |   4.586995   15.15097     0.30   0.763    -25.53214    34.70613
       _cons |   26.64124   37.45981     0.71   0.479    -47.82639    101.1089
------------------------------------------------------------------------------
```

Model 5-2: Robust Check 7.3: CtrlV: Vary source: ethnic fragment (ethnl to ethnannx)

```
. regress delivcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg8090, r

Linear regression                                      Number of obs =      97
                                                       F(  8,    88) =   29.53
                                                       Prob > F      =  0.0000
```

```
                                                R-squared     =  0.6399
                                                Root MSE      =  17.124

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   9.835356    4.48928     2.19   0.031     .9138553    18.75686
    giniavni |  -.1736234   .2258811    -0.77   0.444    -.6225146    .2752677
    ethnannx |   3.789342   7.222425     0.52   0.601    -10.56371    18.14239
        musl |  -8.780584   5.260717    -1.67   0.099    -19.23515    1.673984
     fertwdi |  -6.180925   2.037567    -3.03   0.003    -10.23016   -2.131688
       lpopd |  -2.423061   1.278822    -1.89   0.061    -4.964451    .1183284
      urbwdi |   .3496861    .138146     2.53   0.013       .07515    .6242222
    pavg8090 |   -.303937   .3646694    -0.83   0.407    -1.028641    .4207668
       _cons |   14.65624   36.52552     0.40   0.689    -57.93055    87.24303
------------------------------------------------------------------------------
```

Model 5-2: Robust Check 7.4: CtrlV: Vary source: ethnl to ethnannx, msg flags

```
. regress delivcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg8090 ethnan
> nf, r

Linear regression                               Number of obs =      97
                                                F(  9,    87) =   29.44
                                                Prob > F      =  0.0000
                                                R-squared     =  0.6455
                                                Root MSE      =  17.089

------------------------------------------------------------------------------
             |               Robust
    delivcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    11.1729   4.694973     2.38   0.020     1.841136    20.50467
    giniavni |  -.1209891   .2379922    -0.51   0.612    -.5940244    .3520461
    ethnannx |   4.491166   7.171785     0.63   0.533    -9.763533    18.74586
        musl |  -9.142075   5.446909    -1.68   0.097     -19.9684    1.684246
     fertwdi |  -5.821786   2.154333    -2.70   0.008    -10.10376   -1.539816
       lpopd |  -2.232575    1.34589    -1.66   0.101    -4.907677    .4425272
      urbwdi |   .3143506   .1408594     2.23   0.028     .0343774    .5943239
    pavg8090 |  -.2539759   .3705447    -0.69   0.495    -.9904737    .4825218
    ethnannf |   10.14294   8.790141     1.15   0.252    -7.328421    27.61429
       _cons |   .5833441   40.68796     0.01   0.989    -80.28838    81.45507
------------------------------------------------------------------------------
```

Table 2.5, Model 5-3: Short-Term Democ. & Trained Att. at Birth (Excl. Outliers)

(Same as Model 5-2, Robustness Check 3.3)

Table 2.5, Model 5-4: Short-Term Democracy and Female Schooling

Model 5-4: Bivariate correlations among independent variables

```
. correlate mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090
(obs=98)

             |    mysfx    lgdph giniavni    ethnl     musl  fertwdi    lpopd
-------------+---------------------------------------------------------------
       mysfx |   1.0000
       lgdph |   0.6710   1.0000
    giniavni |   0.0236  -0.0349   1.0000
```

```
       ethnl |  -0.4677  -0.5203   0.2094   1.0000
        musl |  -0.1369   0.3155  -0.3059  -0.3021   1.0000
     fertwdi |  -0.7711  -0.6401   0.1598   0.4848   0.0859   1.0000
       lpopd |   0.1423   0.1550  -0.3009  -0.1614  -0.0893  -0.3794   1.0000
      urbwdi |   0.6205   0.8263  -0.0281  -0.5030   0.3134  -0.5576   0.0310
    pavg8090 |   0.4104   0.2748   0.2211  -0.0655  -0.2853  -0.4745   0.1758

             |   urbwdi pavg8090
-------------+------------------
      urbwdi |   1.0000
    pavg8090 |   0.1718   1.0000
```

Model 5-4: Female schooling predicted by 7 baseline variables only

```
. regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r

Linear regression                                      Number of obs =     105
                                                       F(  7,    97) =   45.30
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7479
                                                       Root MSE      =  1.1486

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .7211628   .2190056     3.29   0.001     .2864973    1.155828
    giniavni |   .0042383   .0147551     0.29   0.775    -.0250466    .0335232
       ethnl |  -.8494354   .4832254    -1.76   0.082    -1.808504    .1096333
        musl |  -1.510806   .3488769    -4.33   0.000     -2.20323   -.8183819
     fertwdi |  -.6436932   .0976878    -6.59   0.000    -.8375764   -.4498101
       lpopd |  -.1657724   .0853429    -1.94   0.055    -.3351544    .0036097
      urbwdi |   .0119389   .0078403     1.52   0.131    -.0036219    .0274998
       _cons |   1.785791   1.722436     1.04   0.302    -1.632768    5.204351
------------------------------------------------------------------------------
```

Model 5-4: Female schooling predicted by 7 baseline var. and short-term democracy

```
. regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090, r

Linear regression                                      Number of obs =      98
                                                       F(  8,    89) =   31.62
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7274
                                                       Root MSE      =  1.1726

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .6999611   .2310969     3.03   0.003     .2407765    1.159146
    giniavni |   .0023205   .0165747     0.14   0.889    -.0306132    .0352541
       ethnl |  -.8432276   .5396323    -1.56   0.122    -1.915466    .2290103
        musl |   -1.49712    .364235    -4.11   0.000    -2.220847    -.773393
     fertwdi |  -.6063477   .1127476    -5.38   0.000    -.8303748   -.3823206
       lpopd |  -.1847869   .0954586    -1.94   0.056    -.3744611    .0048872
      urbwdi |   .0140488   .0093757     1.50   0.138    -.0045806    .0326781
    pavg8090 |   .0073595   .0222281     0.33   0.741    -.0368072    .0515262
       _cons |   1.825578   1.771865     1.03   0.306     -1.69508    5.346236
------------------------------------------------------------------------------
```

Model 5-4: Robustness checks

Model 5-4: Robust Check 1.1: Change specification: Exclude fertility

Same as Model 5-6

```
. regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg8090, r

Linear regression                                       Number of obs =      98
                                                        F(  7,    90) =   27.73
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.6606
                                                        Root MSE      =  1.3011

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   1.108003   .2895879     3.83   0.000     .5326862     1.68332
    giniavni |  -.0199399    .017287    -1.15   0.252    -.0542836    .0144039
       ethnl |  -1.477326   .5616921    -2.63   0.010    -2.593226   -.3614268
        musl |     -2.232   .3576052    -6.24   0.000    -2.942445   -1.521555
       lpopd |  -.0848166    .113217    -0.75   0.456    -.3097419    .1401086
      urbwdi |   .0219593   .0109118     2.01   0.047     .0002811    .0436375
    pavg8090 |   .0491194   .0238947     2.06   0.043     .0016484    .0965904
       _cons |  -3.374195   2.028423    -1.66   0.100    -7.404012    .6556216
------------------------------------------------------------------------------
```

Model 5-4: Robust Check 1.4: Change specification: Include geographical variables

```
. regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 airdist popc
> rgs latcapab, r

Linear regression                                       Number of obs =      98
                                                        F( 11,    86) =   25.39
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.7479
                                                        Root MSE      =  1.1471

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .5461558   .2197393     2.49   0.015     .1093286     .982983
    giniavni |   -.003054   .0157415    -0.19   0.847    -.0343472    .0282391
       ethnl |  -.9327436   .5730099    -1.63   0.107     -2.07185    .2063623
        musl |  -1.488793   .3869479    -3.85   0.000     -2.25802   -.7195661
     fertwdi |  -.6001574   .1274452    -4.71   0.000    -.8535101   -.3468046
       lpopd |   -.136318   .1026641    -1.33   0.188    -.3404075    .0677716
      urbwdi |   .0197243   .0083185     2.37   0.020     .0031877    .0362608
    pavg8090 |   .0097928   .0216987     0.45   0.653    -.0333427    .0529284
     airdist |   .0001547   .0000773     2.00   0.049     1.02e-06    .0003084
     popcrgs |  -.0004551   .0047627    -0.10   0.924     -.009923    .0090127
    latcapab |   .0135613    .014072     0.96   0.338     -.014413    .0415355
       _cons |   1.806837   1.758955     1.03   0.307    -1.689849    5.303523
------------------------------------------------------------------------------
```

Model 5-4: Robust Check 1.5: Change specification: Include regional dummies

```
. regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 afri lati ea
> st sout, r

Linear regression                                       Number of obs =      98
```

```
                                                F( 12,    85) =   21.58
                                                Prob > F      =  0.0000
                                                R-squared     =  0.7393
                                                Root MSE      =  1.1733

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .7241546   .3217296     2.25   0.027     .0844699    1.363839
    giniavni |   .0013489   .0176556     0.08   0.939    -.0337551    .0364529
       ethnl |  -1.094872   .6616397    -1.65   0.102    -2.410389    .2206452
        musl |   -.900412   .4332057    -2.08   0.041    -1.761741    -.039083
     fertwdi |  -.5611681   .1247009    -4.50   0.000    -.8091069   -.3132294
       lpopd |  -.1710444   .1001727    -1.71   0.091    -.3702146    .0281258
      urbwdi |   .0156391   .0135943     1.15   0.253    -.0113901    .0426683
    pavg8090 |   .0116955   .0283649     0.41   0.681    -.0447015    .0680925
        afri |   .9088044   .5666596     1.60   0.112    -.2178667    2.035476
        lati |   .7239105   .7131014     1.02   0.313    -.6939261    2.141747
        east |   1.240187    .669971     1.85   0.068    -.0918954    2.572268
        sout |   .4668929   .7747308     0.60   0.548    -1.073479    2.007265
       _cons |   .6159886   2.619005     0.24   0.815    -4.591296    5.823273
------------------------------------------------------------------------------
```

Model 5-4: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 gdphf giniav
> nf ethnlf, r

Linear regression                               Number of obs =      98
                                                F( 10,    87) =   27.64
                                                Prob > F      =  0.0000
                                                R-squared     =  0.7285
                                                Root MSE      =  1.1837

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    .712253   .2260812     3.15   0.002     .2628921    1.161614
    giniavni |   .0024912    .017698     0.14   0.888    -.0326855    .0376679
       ethnl |  -.8303999   .5512311    -1.51   0.136    -1.926031    .2652316
        musl |  -1.495727   .3720674    -4.02   0.000    -2.235251   -.7562022
     fertwdi |  -.5959902   .1257598    -4.74   0.000    -.8459515   -.3460289
       lpopd |   -.185108   .0955399    -1.94   0.056    -.3750039    .0047879
      urbwdi |    .014495    .010054     1.44   0.153    -.0054884    .0344784
    pavg8090 |   .0029783   .0247671     0.12   0.905    -.0462491    .0522056
       gdphf |  (dropped)
    giniavnf |  -.1917296   .3381807    -0.57   0.572    -.8639004    .4804412
      ethnlf |    .145621    .395093     0.37   0.713    -.6396692    .9309112
       _cons |   1.675586   1.759958     0.95   0.344    -1.822521    5.173693
------------------------------------------------------------------------------
```

Model 5-4: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090

   Huber iteration 1:  maximum difference in weights = .54488417
   Huber iteration 2:  maximum difference in weights = .11336654
   Huber iteration 3:  maximum difference in weights = .0209069
Biweight iteration 4:  maximum difference in weights = .16477713
Biweight iteration 5:  maximum difference in weights = .00798088
```

```
Robust regression                                       Number of obs =      98
                                                        F(  8,    89) =   27.75
                                                        Prob > F      =  0.0000

------------------------------------------------------------------------------
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |     .67052   .2828272     2.37   0.020     .1085483    1.232492
    giniavni |   .0024085   .0168327     0.14   0.887    -.0310378    .0358548
       ethnl |  -.9514247   .5008219    -1.90   0.061    -1.946547    .0436979
        musl |  -1.483832   .4137213    -3.59   0.001    -2.305887   -.6617762
     fertwdi |  -.6087434   .1348435    -4.51   0.000    -.8766746   -.3408121
       lpopd |  -.2252001   .0976721    -2.31   0.023    -.4192725   -.0311278
      urbwdi |   .0143169   .0100653     1.42   0.158    -.0056826    .0343163
    pavg8090 |   .0111296   .0252644     0.44   0.661    -.0390703    .0613295
       _cons |   2.181405   2.227103     0.98   0.330    -2.243801    6.606611
------------------------------------------------------------------------------
```

Model 5-4: Robust Check 3.2: Outlier checks: Median regression

```
. qreg mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090
Iteration  1:  WLS sum of weighted deviations =  87.012833

Iteration  1: sum of abs. weighted deviations =  87.112652
Iteration  2: sum of abs. weighted deviations =  86.654305
Iteration  3: sum of abs. weighted deviations =  85.683837
Iteration  4: sum of abs. weighted deviations =  85.670854
Iteration  5: sum of abs. weighted deviations =  85.600891
Iteration  6: sum of abs. weighted deviations =  85.496022
Iteration  7: sum of abs. weighted deviations =  85.243714
Iteration  8: sum of abs. weighted deviations =  85.166678
Iteration  9: sum of abs. weighted deviations =  85.120942
Iteration 10: sum of abs. weighted deviations =   85.09844
Iteration 11: sum of abs. weighted deviations =  85.043819
Iteration 12: sum of abs. weighted deviations =  85.030341
Iteration 13: sum of abs. weighted deviations =  84.992735
Iteration 14: sum of abs. weighted deviations =  84.877515
Iteration 15: sum of abs. weighted deviations =  84.877022

Median regression                                   Number of obs =        98
  Raw sum of deviations 177.3172 (about 3.2690001)
  Min sum of deviations 84.87702                    Pseudo R2     =    0.5213

------------------------------------------------------------------------------
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .4922551   .3786887     1.30   0.197    -.2601913    1.244702
    giniavni |  -.0064946    .022205    -0.29   0.771    -.0506154    .0376261
       ethnl |    -.66971   .6820973    -0.98   0.329    -2.025023    .6856028
        musl |  -1.346279   .5573507    -2.42   0.018    -2.453723   -.2388356
     fertwdi |  -.6734124    .174985    -3.85   0.000    -1.021104   -.3257209
       lpopd |  -.3480465   .1309123    -2.66   0.009    -.6081664   -.0879266
      urbwdi |   .0194175   .0135562     1.43   0.156    -.0075184    .0463534
    pavg8090 |   .0162519   .0344757     0.47   0.639    -.0522507    .0847544
       _cons |   4.283272   2.841575     1.51   0.135    -1.362876     9.92942
------------------------------------------------------------------------------
```

Model 5-4: Robust Check 3.3: Outlier checks: Discard 2 cases highst cooksd

```
. regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 if ctry ~= "
> Singapore" & ctry ~= "Swaziland", r
```

```
Linear regression                                       Number of obs =      96
                                                        F(  8,    87) =   33.90
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.7393
                                                        Root MSE      =  1.1496

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .6522742    .215104     3.03   0.003     .2247318    1.079817
    giniavni |  -.0046835   .0169654    -0.28   0.783    -.0384041    .0290372
       ethnl |  -.5448182    .553061    -0.99   0.327    -1.644087    .5544504
        musl |  -1.537448   .3612399    -4.26   0.000    -2.255452   -.8194451
     fertwdi |  -.5909335   .1118735    -5.28   0.000    -.8132942   -.3685729
       lpopd |  -.1377571   .0967473    -1.42   0.158    -.3300528    .0545387
      urbwdi |   .0212842   .0090265     2.36   0.021      .003343    .0392255
    pavg8090 |   .0120024   .0225783     0.53   0.596    -.0328743    .0568792
       _cons |   1.839797   1.629092     1.13   0.262      -1.3982    5.077793
------------------------------------------------------------------------------
```

Model 5-4: Robust Check 6.5: IndV: Vary source: pavg8090 to pol90

```
. regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pol90, r

Linear regression                                       Number of obs =     101
                                                        F(  8,    92) =   34.14
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.7322
                                                        Root MSE      =  1.1706

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .6706266   .2300962     2.91   0.004     .2136357    1.127618
    giniavni |   .0001835   .0162633     0.01   0.991    -.0321169    .0324838
       ethnl |  -.8711456   .5047461    -1.73   0.088    -1.873615    .1313238
        musl |  -1.471773   .3521521    -4.18   0.000    -2.171177   -.7723682
     fertwdi |  -.6160518    .106251    -5.80   0.000    -.8270756   -.4050281
       lpopd |  -.1812358   .0912149    -1.99   0.050    -.3623965    -.000075
      urbwdi |   .0128889   .0092819     1.39   0.168    -.0055457    .0313236
       pol90 |   .0150253   .0217895     0.69   0.492    -.0282505    .0583011
       _cons |   2.249285     1.7644     1.27   0.206    -1.254966    5.753535
------------------------------------------------------------------------------
```

Model 5-4: Robust Check 6.6: IndV: Vary source: pavg8090 to free8090

```
. regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi free8090, r

Linear regression                                       Number of obs =     104
                                                        F(  8,    95) =   36.85
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.7373
                                                        Root MSE      =  1.1567

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .7169232    .228715     3.13   0.002     .2628665     1.17098
```

```
    giniavni |   .0038997   .0153282     0.25   0.800    -.0265306    .0343301
       ethnl |  -.8717592   .4856402    -1.80   0.076    -1.835877    .0923585
        musl |  -1.500404   .3520462    -4.26   0.000    -2.199304   -.8015036
     fertwdi |  -.6521338   .1076906    -6.06   0.000    -.8659267    -.438341
       lpopd |  -.1859195   .0901685    -2.06   0.042    -.3649266   -.0069123
      urbwdi |   .0109755   .0081059     1.35   0.179    -.0051167    .0270676
    free8090 |   .0043199   .0450859     0.10   0.924    -.0851869    .0938267
       _cons |   1.945207   1.936673     1.00   0.318    -1.899575    5.789989
------------------------------------------------------------------------------
```

Model 5-4: Robust Check 6.7: IndV: Vary source: pavg8090 to free90

```
. regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi free90, r

Linear regression                                      Number of obs =     104
                                                       F(  8,    95) =   37.39
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7374
                                                       Root MSE      =  1.1566

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    .704944   .2279783     3.09   0.003     .2523498    1.157538
    giniavni |   .0025885   .0157597     0.16   0.870    -.0286983    .0338754
       ethnl |  -.8817587   .4865216    -1.81   0.073    -1.847626    .0841087
        musl |  -1.498328   .3484655    -4.30   0.000     -2.19012   -.8065368
     fertwdi |  -.6413487   .1118412    -5.73   0.000    -.8633816   -.4193159
       lpopd |  -.1890662   .0873406    -2.16   0.033    -.3624591   -.0156732
      urbwdi |   .0111454   .0080253     1.39   0.168    -.0047869    .0270777
      free90 |  -.0079757   .0445046    -0.18   0.858    -.0963284     .080377
       _cons |   2.169306   1.907534     1.14   0.258    -1.617627    5.956238
------------------------------------------------------------------------------
```

Model 5-4: Robust Ck 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)

```
. regress mysfx lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg8090, r

Linear regression                                      Number of obs =      97
                                                       F(  8,    88) =   33.09
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7338
                                                       Root MSE      =    1.16

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |   .8730542   .2504588     3.49   0.001     .3753199    1.370789
    giniavni |  -.0004689   .0161604    -0.03   0.977    -.0325842    .0316464
       ethnl |  -.8171085   .5455999    -1.50   0.138    -1.901374    .2671567
        musl |  -1.448734   .3617314    -4.00   0.000    -2.167599   -.7298688
     fertwdi |  -.5717816    .116039    -4.93   0.000    -.8023846   -.3411785
       lpopd |  -.1831335   .0985435    -1.86   0.066    -.3789679    .0127009
      urbwdi |   .0113261   .0089227     1.27   0.208    -.0064058     .029058
    pavg8090 |  -.0041016   .0227142    -0.18   0.857    -.0492414    .0410381
       _cons |   .5111319   2.083433     0.25   0.807    -3.629254    4.651518
------------------------------------------------------------------------------
```

Model 5-4: Robust Ck 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

```
. regress mysfx lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 gdpmf, r

Linear regression                                       Number of obs =      97
                                                        F(  9,    87) =   29.74
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.7355
                                                        Root MSE      =   1.163

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |   .8332169   .2460923     3.39   0.001     .3440818    1.322352
    giniavni |   .0000779   .0163416     0.00   0.996    -.0324029    .0325587
       ethnl |  -.8758733   .5222735    -1.68   0.097    -1.913948    .1622018
        musl |  -1.452814   .3600251    -4.04   0.000    -2.168403   -.7372252
     fertwdi |  -.5480941   .1215235    -4.51   0.000    -.7896353   -.3065529
       lpopd |  -.1629355    .106017    -1.54   0.128    -.3736558    .0477848
      urbwdi |    .013502   .0091008     1.48   0.142     -.004587    .0315909
    pavg8090 |  -.0027602   .0232804    -0.12   0.906    -.0490325    .0435122
       gdpmf |   .5609687   .9951019     0.56   0.574    -1.416904    2.538842
       _cons |   .5193461   2.133199     0.24   0.808    -3.720618    4.759311
------------------------------------------------------------------------------
```

Model 5-4: Robust Ck 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)

```
. regress mysfx lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg8090, r

Linear regression                                       Number of obs =      98
                                                        F(  8,    89) =   29.80
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.7196
                                                        Root MSE      =  1.1893

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .6870147   .2325497     2.95   0.004     .2249434    1.149086
    giniavni |   .0007663   .0170578     0.04   0.964    -.0331273    .0346598
    ethnannx |  -.3983736   .5589507    -0.71   0.478    -1.508997    .7122495
        musl |  -1.401479   .3740002    -3.75   0.000     -2.14461   -.6583487
     fertwdi |  -.6565728   .1123914    -5.84   0.000    -.8798921   -.4332536
       lpopd |  -.1898555   .1005567    -1.89   0.062    -.3896595    .0099484
      urbwdi |   .0164416   .0094629     1.74   0.086    -.0023609     .035244
    pavg8090 |   .0047232   .0229243     0.21   0.837     -.040827    .0502733
       _cons |     2.0061   1.922897     1.04   0.300    -1.814656    5.826855
------------------------------------------------------------------------------
```

Model 5-4: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

```
. regress mysfx lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg8090 ethnannf,
>  r

Linear regression                                       Number of obs =      98
                                                        F(  9,    88) =   26.24
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.7198
                                                        Root MSE      =  1.1955

------------------------------------------------------------------------------
```

```
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .7104361   .2614345     2.72   0.008       .19089    1.229982
    giniavni |    .001683    .017494     0.10   0.924    -.0330827    .0364486
    ethnannx |   -.386082   .5614334    -0.69   0.493    -1.501813    .7296489
        musl |  -1.407969   .3758028    -3.75   0.000    -2.154798   -.6611402
     fertwdi |  -.6502437    .114883    -5.66   0.000    -.8785495   -.4219379
       lpopd |  -.1865435   .1015141    -1.84   0.069    -.3882814    .0151944
      urbwdi |   .0158268   .0100244     1.58   0.118    -.0040946    .0357482
    pavg8090 |   .0055922   .0231031     0.24   0.809    -.0403204    .0515048
    ethnannf |   .1770786   .5092398     0.35   0.729    -.8349285    1.189086
       _cons |   1.759686   2.212177     0.80   0.428     -2.63655    6.155922
------------------------------------------------------------------------------
```

Table 2.5, Model 5-5: Short-Term Democracy and Female Schooling, Excl. Fertility

Model 5-5: Bivariate correlations among the independent variables

```
. correlate mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090
(obs=98)
             |    mysfx    lgdph giniavni    ethnl     musl  fertwdi    lpopd
-------------+---------------------------------------------------------------
       mysfx |   1.0000
       lgdph |   0.6710   1.0000
    giniavni |   0.0236  -0.0349   1.0000
       ethnl |  -0.4677  -0.5203   0.2094   1.0000
        musl |  -0.1369   0.3155  -0.3059  -0.3021   1.0000
     fertwdi |  -0.7711  -0.6401   0.1598   0.4848   0.0859   1.0000
       lpopd |   0.1423   0.1550  -0.3009  -0.1614  -0.0893  -0.3794   1.0000
      urbwdi |   0.6205   0.8263  -0.0281  -0.5030   0.3134  -0.5576   0.0310
    pavg8090 |   0.4104   0.2748   0.2211  -0.0655  -0.2853  -0.4745   0.1758

             |   urbwdi pavg8090
-------------+------------------
      urbwdi |   1.0000
    pavg8090 |   0.1718   1.0000
```

Model 5-5: Female schooling predicted by 6 baseline variables excluding fertility

```
. regress mysfx lgdph giniavni ethnl musl lpopd urbwdi, r

Linear regression                                      Number of obs =     105
                                                       F(  6,    98) =   34.11
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6652
                                                       Root MSE      =  1.3169

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   1.290357   .2726067     4.73   0.000      .749378    1.831336
    giniavni |  -.0130063   .0165241    -0.79   0.433    -.0457979    .0197853
       ethnl |  -1.395689   .5300826    -2.63   0.010     -2.44762    -.343757
        musl |  -2.542096   .3397031    -7.48   0.000    -3.216226   -1.867967
       lpopd |  -.0428688   .1060032    -0.40   0.687    -.2532286     .167491
      urbwdi |    .020806   .0092118     2.26   0.026     .0025255    .0390866
       _cons |  -5.292901   1.818562    -2.91   0.004    -8.901778   -1.684023
------------------------------------------------------------------------------
```

Model 5-5: Female schooling pred. by 6 baseline var. (excl. fert.) and short-term democracy
(same as Model 5-4 Robustness check 1.1)

```
. regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg8090, r

Linear regression                                       Number of obs =      98
                                                        F(  7,    90) =   27.73
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.6606
                                                        Root MSE      =  1.3011

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   1.108003   .2895879     3.83   0.000     .5326862     1.68332
    giniavni |  -.0199399    .017287    -1.15   0.252    -.0542836    .0144039
       ethnl |  -1.477326   .5616921    -2.63   0.010    -2.593226   -.3614268
        musl |      -2.232   .3576052    -6.24   0.000    -2.942445   -1.521555
       lpopd |  -.0848166    .113217    -0.75   0.456    -.3097419    .1401086
      urbwdi |   .0219593   .0109118     2.01   0.047     .0002811    .0436375
    pavg8090 |   .0491194   .0238947     2.06   0.043     .0016484    .0965904
       _cons |  -3.374195   2.028423    -1.66   0.100    -7.404012    .6556216
------------------------------------------------------------------------------
```

Model 5-5: Means and SDs of mean years of female schooling and short-term democracy

```
. summarize mysfx

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
       mysfx |       105     3.64511    2.209273   .1377345      9.045

. summarize pavg8090

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    pavg8090 |        98    -3.05551    6.120606        -10         10
```

Model 5-5: How much would female schooling rise if short-term democracy rose 1 SD?

```
. estsimp regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg8090, r

Linear regression                                       Number of obs =      98
                                                        F(  7,    90) =   27.73
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.6606
                                                        Root MSE      =  1.3011

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   1.108003   .2895879     3.83   0.000     .5326862     1.68332
    giniavni |  -.0199399    .017287    -1.15   0.252    -.0542836    .0144039
       ethnl |  -1.477326   .5616921    -2.63   0.010    -2.593226   -.3614268
        musl |      -2.232   .3576052    -6.24   0.000    -2.942445   -1.521555
       lpopd |  -.0848166    .113217    -0.75   0.456    -.3097419    .1401086
      urbwdi |   .0219593   .0109118     2.01   0.047     .0002811    .0436375
    pavg8090 |   .0491194   .0238947     2.06   0.043     .0016484    .0965904
```

```
       _cons |  -3.374195   2.028423    -1.66   0.100    -7.404012    .6556216
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....
% of simulations completed: 12% 25% 37% 50% 62% 75% 87% 100%


Simulating sigma-squared.  Please wait


Number of simulations  : 1000
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9

. setx mean
. simqi, fd(ev) changex(pavg8090 -3.05551 3.065096)

First Difference: pavg8090 -3.05551 3.065096

      Quantity of Interest |      Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
                dE(mysfx) |   .3015735     .1456323     .0089934    .5791454
```

Model 5-5: Robustness checks

Model 5-5: Robust Check 1.1: Change specification: Include fertility
(Same as Model 5-4)

```
. regress mysfx lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090, r

Linear regression                                      Number of obs =      98
                                                       F(  8,    89) =   31.62
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7274
                                                       Root MSE      =  1.1726

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   .6999611   .2310969     3.03   0.003     .2407765    1.159146
    giniavni |   .0023205   .0165747     0.14   0.889    -.0306132    .0352541
       ethnl |  -.8432276   .5396323    -1.56   0.122    -1.915466    .2290103
        musl |   -1.49712    .364235    -4.11   0.000    -2.220847    -.773393
     fertwdi |  -.6063477   .1127476    -5.38   0.000    -.8303748   -.3823206
       lpopd |  -.1847869   .0954586    -1.94   0.056    -.3744611    .0048872
      urbwdi |   .0140488   .0093757     1.50   0.138    -.0045806    .0326781
    pavg8090 |   .0073595   .0222281     0.33   0.741    -.0368072    .0515262
       _cons |   1.825578   1.771865     1.03   0.306     -1.69508    5.346236
------------------------------------------------------------------------------
```

Model 5-5: Robust Check 1.4: Change specification: Include geographical variables

```
. regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg8090 airdist popcrgs latc
> apab, r

Linear regression                                      Number of obs =      98
                                                       F( 10,    87) =   26.91
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6925
                                                       Root MSE      =  1.2596

------------------------------------------------------------------------------
             |               Robust
```

```
      mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
------------+----------------------------------------------------------------
      lgdph |   .8769817   .2857632     3.07   0.003     .3089965    1.444967
   giniavni |  -.0206016   .0159977    -1.29   0.201    -.0523988    .0111956
      ethnl |  -1.228304   .6012854    -2.04   0.044    -2.423424   -.0331844
       musl |  -2.390483   .3617013    -6.61   0.000    -3.109404   -1.671563
      lpopd |  -.0676979   .1181834    -0.57   0.568    -.3026002    .1672045
     urbwdi |   .0272006   .0101566     2.68   0.009     .0070134    .0473879
   pavg8090 |    .049026    .022496     2.18   0.032     .0043129    .0937392
    airdist |   .0001339   .0000797     1.68   0.097    -.0000245    .0002924
    popcrgs |    .003906   .0054049     0.72   0.472    -.0068368    .0146488
   latcapab |   .0341545   .0139047     2.46   0.016     .0065174    .0617916
      _cons |  -3.443309   1.804483    -1.91   0.060    -7.029915    .1432963
------------------------------------------------------------------------------
```

Model 5-5: Robust Check 1.5: Change specification: Include regional dummies

```
. regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg8090 afri lati east sout,
>  r

Linear regression                                      Number of obs =      98
                                                       F( 11,    86) =   19.14
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6917
                                                       Root MSE      =  1.2686

------------------------------------------------------------------------------
             |               Robust
      mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
------------+----------------------------------------------------------------
      lgdph |   .9896531    .362711     2.73   0.008     .2686076    1.710699
   giniavni |  -.0109361    .019278    -0.57   0.572    -.0492596    .0273874
      ethnl |  -1.445285   .6868105    -2.10   0.038    -2.810619   -.0799509
       musl |  -1.273453   .3864692    -3.30   0.001    -2.041728   -.5051774
      lpopd |  -.0865498   .1112118    -0.78   0.439    -.3076315    .1345319
     urbwdi |   .0240372   .0150407     1.60   0.114    -.0058627     .053937
   pavg8090 |   .0434782   .0309945     1.40   0.164    -.0181368    .1050931
       afri |   .7846867   .5453357     1.44   0.154    -.2994048    1.868778
       lati |   1.045201    .749694     1.39   0.167    -.4451415    2.535543
       east |   1.892724   .6223373     3.04   0.003     .6555586     3.12989
       sout |   .7496327   .7008951     1.07   0.288    -.6437007    2.142966
      _cons |  -4.042612   2.662443    -1.52   0.133    -9.335374    1.250149
------------------------------------------------------------------------------
```

Model 5-5: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg8090 gdphf giniavnf ethnl
> f, r

Linear regression                                      Number of obs =      98
                                                       F(  9,    88) =   23.65
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6680
                                                       Root MSE      =  1.3013

------------------------------------------------------------------------------
             |               Robust
      mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
------------+----------------------------------------------------------------
      lgdph |   1.128101   .2816234     4.01   0.000     .5684338    1.687768
   giniavni |  -.0225247   .0175444    -1.28   0.203    -.0573904     .012341
      ethnl |  -1.476029   .5559549    -2.65   0.009    -2.580873   -.3711856
```

```
        musl |  -2.208035   .3530838    -6.25   0.000    -2.909715   -1.506355
       lpopd |  -.0960163   .1097905    -0.87   0.384    -.3142019    .1221693
      urbwdi |   .0235758   .0113065     2.09   0.040     .0011065    .0460451
    pavg8090 |   .0351858   .0282684     1.24   0.217    -.0209917    .0913632
       gdphf |  (dropped)
    giniavnf |  -.4424846   .3663341    -1.21   0.230    -1.170497    .2855274
      ethnlf |  -.2025234   .6824781    -0.30   0.767    -1.558805    1.153758
       _cons |  -3.368093   2.046245    -1.65   0.103    -7.434575     .698388
------------------------------------------------------------------------------
```

Model 5-5: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg8090

   Huber iteration 1:  maximum difference in weights = .51489811
   Huber iteration 2:  maximum difference in weights = .10457651
   Huber iteration 3:  maximum difference in weights = .01155807
Biweight iteration 4:  maximum difference in weights = .14832631
Biweight iteration 5:  maximum difference in weights = .02347507
Biweight iteration 6:  maximum difference in weights = .00921083

Robust regression                                     Number of obs =      98
                                                      F(  7,    90) =   22.13
                                                      Prob > F      =  0.0000

------------------------------------------------------------------------------
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   1.083629   .3025007     3.58   0.001     .4826588      1.6846
    giniavni |  -.0228814   .0181679    -1.26   0.211    -.0589752    .0132123
       ethnl |  -1.544663   .5426771    -2.85   0.005    -2.622786   -.4665399
        musl |  -2.153231   .4292036    -5.02   0.000    -3.005919   -1.300543
       lpopd |  -.1182183    .107402    -1.10   0.274    -.3315912    .0951545
      urbwdi |   .0219068   .0111914     1.96   0.053    -.0003268    .0441404
    pavg8090 |   .0522821   .0265328     1.97   0.052    -.0004299     .104994
       _cons |  -2.967873   2.149403    -1.38   0.171    -7.238036     1.30229
------------------------------------------------------------------------------
```

Model 5-5: Robust Check 3.2: Outlier checks: Median regression

```
. qreg mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg8090
Iteration  1:  WLS sum of weighted deviations =  99.540985

Iteration  1: sum of abs. weighted deviations =  98.306809
Iteration  2: sum of abs. weighted deviations =  98.021706
Iteration  3: sum of abs. weighted deviations =   97.97369
Iteration  4: sum of abs. weighted deviations =  97.452403
Iteration  5: sum of abs. weighted deviations =  96.735303
Iteration  6: sum of abs. weighted deviations =  95.940417
Iteration  7: sum of abs. weighted deviations =  95.885536

Median regression                                   Number of obs =        98
  Raw sum of deviations 177.3172 (about 3.2690001)
  Min sum of deviations 95.88554                    Pseudo R2     =    0.4592

------------------------------------------------------------------------------
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   1.168485   .3665991     3.19   0.002     .4401717    1.896798
    giniavni |  -.0361891   .0219021    -1.65   0.102    -.0797013    .0073232
       ethnl |   -.990245   .6685448    -1.48   0.142    -2.318426    .3379359
        musl |  -2.079038   .5262581    -3.95   0.000    -3.124542   -1.033535
```

```
       lpopd |  -.2175916   .1256833    -1.73   0.087    -.4672835    .0321003
      urbwdi |    .030534   .0137293     2.22   0.029     .0032584    .0578095
    pavg8090 |   .0453114   .0312461     1.45   0.150    -.0167643    .1073872
       _cons |   -3.38138   2.537244    -1.33   0.186    -8.422058    1.659298
------------------------------------------------------------------------------
```

Model 5-5: Robust Check 3.3: Outlier checks: Discard 2 cases highst cooksd

```
. regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pavg8090 if ctry ~= "Singapor
> e" & ctry ~= "Oman", r

Linear regression                                      Number of obs =      96
                                                       F(  7,    88) =   30.39
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6794
                                                       Root MSE      =  1.2712

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   1.262706   .2832687     4.46   0.000     .6997686    1.825642
    giniavni |  -.0207982   .0170372    -1.22   0.225     -.054656    .0130596
       ethnl |  -1.382581   .5595122    -2.47   0.015    -2.494494   -.2706681
        musl |  -2.262868   .3545648    -6.38   0.000    -2.967491   -1.558245
       lpopd |  -.0570424   .1150643    -0.50   0.621    -.2857084    .1716237
      urbwdi |   .0218088    .010547     2.07   0.042     .0008487    .0427688
    pavg8090 |    .037762   .0239915     1.57   0.119    -.0099161      .08544
       _cons |  -4.619028   1.982886    -2.33   0.022    -8.559597   -.6784595
------------------------------------------------------------------------------
```

Model 5-5: Robust Check 6.5: IndV: Vary source: pavg8090 to pol90

```
. regress mysfx lgdph giniavni ethnl musl lpopd urbwdi pol90, r

Linear regression                                      Number of obs =     101
                                                       F(  7,    93) =   30.38
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6617
                                                       Root MSE      =  1.3085

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   1.108955   .2864676     3.87   0.000     .5400872    1.677823
    giniavni |  -.0222544    .017276    -1.29   0.201    -.0565611    .0120522
       ethnl |   -1.34289   .5644313    -2.38   0.019    -2.463739   -.2220411
        musl |  -2.265721   .3390606    -6.68   0.000    -2.939028   -1.592413
       lpopd |  -.0731982   .1059555    -0.69   0.491    -.2836049    .1372085
      urbwdi |    .021392   .0109121     1.96   0.053    -.0002772    .0430612
       pol90 |   .0524364   .0225032     2.33   0.022     .0077494    .0971234
       _cons |  -3.411517   1.955161    -1.74   0.084     -7.29408    .4710462
------------------------------------------------------------------------------
```

Model 5-5: Robust Check 6.6: IndV: Vary source: pavg8090 to free8090

```
. regress mysfx lgdph giniavni ethnl musl lpopd urbwdi free8090, r

Linear regression                                      Number of obs =     104
                                                       F(  7,    96) =   29.87
```

```
                                                Prob > F      =  0.0000
                                                R-squared     =  0.6581
                                                Root MSE      =  1.3126

------------------------------------------------------------------------------
             |               Robust
      mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdph |   1.135936   .2863982     3.97   0.000     .5674401    1.704432
   giniavni |  -.0192541   .0169019    -1.14   0.257    -.0528042    .0142959
      ethnl |  -1.431768   .5331903    -2.69   0.009    -2.490143    -.373394
       musl |  -2.397527   .3470893    -6.91   0.000    -3.086494    -1.70856
      lpopd |  -.0869013   .1112685    -0.78   0.437    -.3077675    .1339649
     urbwdi |   .0212664   .0093321     2.28   0.025     .0027423    .0397906
   free8090 |  -.0797871   .0504838    -1.58   0.117    -.1799967    .0204224
      _cons |  -2.938784    2.31953    -1.27   0.208    -7.543014    1.665447
------------------------------------------------------------------------------
```

Model 5-5: Robust Check 6.7: IndV: Vary source: pavg8090 to free90

```
. regress mysfx lgdph giniavni ethnl musl lpopd urbwdi free90, r

Linear regression                               Number of obs =     104
                                                F(  7,    96) =   32.68
                                                Prob > F      =  0.0000
                                                R-squared     =  0.6592
                                                Root MSE      =  1.3106

------------------------------------------------------------------------------
             |               Robust
      mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdph |   1.166287   .2984094     3.91   0.000     .5739487    1.758625
   giniavni |  -.0200686   .0171864    -1.17   0.246    -.0541832    .0140461
      ethnl |  -1.415902   .5386589    -2.63   0.010    -2.485132   -.3466726
       musl |  -2.433182   .3406739    -7.14   0.000    -3.109415    -1.75695
      lpopd |  -.0885398   .1072027    -0.83   0.411    -.3013354    .1242558
     urbwdi |   .0199833   .0092615     2.16   0.033     .0015994    .0383672
     free90 |  -.0722257   .0468262    -1.54   0.126     -.165175    .0207237
      _cons |  -3.157103   2.428752    -1.30   0.197    -7.978138    1.663932
------------------------------------------------------------------------------
```

Model 5-5: Robust Ck 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)

```
. regress mysfx lgdpmx giniavni ethnl musl lpopd urbwdi pavg8090, r

Linear regression                               Number of obs =      97
                                                F(  7,    89) =   28.56
                                                Prob > F      =  0.0000
                                                R-squared     =  0.6755
                                                Root MSE      =  1.2736

------------------------------------------------------------------------------
             |               Robust
      mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |   1.311258   .2952765     4.44   0.000     .7245504    1.897967
   giniavni |  -.0216292   .0170439    -1.27   0.208     -.055495    .0122366
      ethnl |  -1.377769   .5699185    -2.42   0.018    -2.510185   -.2453529
       musl |  -2.082758   .3516605    -5.92   0.000      -2.7815   -1.384016
      lpopd |  -.0863523   .1164491    -0.74   0.460    -.3177342    .1450296
     urbwdi |   .0181101   .0102953     1.76   0.082    -.0023465    .0385666
```

```
    pavg8090 |   .0290092   .0259013     1.12   0.266    -.0224562    .0804745
       _cons |  -4.827634   2.207658    -2.19   0.031    -9.214203   -.4410657
------------------------------------------------------------------------------
```

Model 5-5: Robust Ck 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

```
. regress mysfx lgdpmx giniavni ethnl musl lpopd urbwdi pavg8090 gdpmf, r

Linear regression                                      Number of obs =      97
                                                       F(  8,    88) =   25.24
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6849
                                                       Root MSE      =  1.2621

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |   1.178479   .2921165     4.03   0.000     .5979587    1.758999
    giniavni |  -.0183701   .0172541    -1.06   0.290     -.052659    .0159189
       ethnl |  -1.459139   .5406344    -2.70   0.008    -2.533536   -.3847413
        musl |   -2.03196   .3493424    -5.82   0.000    -2.726204   -1.337715
       lpopd |   -.049286   .1195402    -0.41   0.681     -.286847    .1882749
      urbwdi |   .0224486   .0106693     2.10   0.038     .0012455    .0436517
    pavg8090 |     .02894   .0254812     1.14   0.259    -.0216986    .0795785
       gdpmf |   1.284426   1.095118     1.17   0.244    -.8918919    3.460744
       _cons |  -4.302419   2.221055    -1.94   0.056    -8.716299    .1114614
------------------------------------------------------------------------------
```

Model 5-5: Robust Ck 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)

```
. regress mysfx lgdph giniavni ethnann musl lpopd urbwdi pavg8090, r

Linear regression                                      Number of obs =      93
                                                       F(  7,    85) =   24.25
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6329
                                                       Root MSE      =  1.3423

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   1.285469   .3073321     4.18   0.000     .6744106    1.896528
    giniavni |  -.0197815   .0199042    -0.99   0.323    -.0593563    .0197933
     ethnann |  -.6789114   .6088232    -1.12   0.268    -1.889415    .5315921
        musl |  -1.989388   .4177191    -4.76   0.000    -2.819926   -1.158851
       lpopd |  -.1199672   .1265893    -0.95   0.346    -.3716606    .1317262
      urbwdi |   .0223145   .0123316     1.81   0.074     -.002204     .046833
    pavg8090 |   .0571938   .0245133     2.33   0.022     .0084549    .1059327
       _cons |  -4.891496   2.298496    -2.13   0.036    -9.461522   -.3214704
------------------------------------------------------------------------------
```

Model 5-5: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

```
. regress mysfx lgdph giniavni ethnann musl lpopd urbwdi pavg8090, r

Linear regression                                      Number of obs =      93
                                                       F(  7,    85) =   24.25
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6329
```

```
                                                      Root MSE      =  1.3423

------------------------------------------------------------------------------
             |               Robust
       mysfx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   1.285469   .3073321     4.18   0.000     .6744106    1.896528
    giniavni |  -.0197815   .0199042    -0.99   0.323    -.0593563    .0197933
     ethnann |  -.6789114   .6088232    -1.12   0.268    -1.889415    .5315921
        musl |  -1.989388   .4177191    -4.76   0.000    -2.819926   -1.158851
       lpopd |  -.1199672   .1265893    -0.95   0.346    -.3716606    .1317262
      urbwdi |   .0223145   .0123316     1.81   0.074     -.002204     .046833
    pavg8090 |   .0571938   .0245133     2.33   0.022     .0084549    .1059327
       _cons |  -4.891496   2.298496    -2.13   0.036    -9.461522   -.3214704
------------------------------------------------------------------------------
```

Table 2.5, Model 5-6: Short-Term Democracy and Family Planning, Excl. Fertility

Model 5-6: Bivariate correlations among independent variables

```
. correlate rtot lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090
(obs=84)

             |     rtot    lgdph giniavni    ethnl     musl  fertwdi    lpopd
-------------+---------------------------------------------------------------
        rtot |   1.0000
       lgdph |   0.1480   1.0000
    giniavni |  -0.0800  -0.0072   1.0000
       ethnl |  -0.1574  -0.5424   0.2174   1.0000
        musl |  -0.2613   0.3318  -0.3085  -0.2644   1.0000
     fertwdi |  -0.5864  -0.6209   0.1348   0.5209   0.0701   1.0000
       lpopd |   0.4740   0.1486  -0.4034  -0.1876  -0.1198  -0.3987   1.0000
      urbwdi |   0.0099   0.8278   0.0075  -0.5413   0.3222  -0.5544   0.0361
    pavg8090 |   0.4190   0.3129   0.2506  -0.1253  -0.2744  -0.4823   0.1419

             |   urbwdi pavg8090
-------------+------------------
      urbwdi |   1.0000
    pavg8090 |   0.2145   1.0000
```

Model 5-6: Family planning effort predicted by six baseline variables excluding fertility

```
. regress rtot lgdph giniavni ethnl musl lpopd urbwdi, r

Linear regression                                      Number of obs =      88
                                                       F(  6,    81) =    7.87
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.3014
                                                       Root MSE      =  21.895

------------------------------------------------------------------------------
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   8.625587   5.000478     1.72   0.088    -1.323795    18.57497
    giniavni |   .0952713   .3219923     0.30   0.768    -.5453923     .735935
       ethnl |  -5.887607   8.551977    -0.69   0.493    -22.90336    11.12814
        musl |  -16.76848   8.490191    -1.98   0.052    -33.66129    .1243384
       lpopd |   7.168345   2.222191     3.23   0.002     2.746883    11.58981
      urbwdi |  -.2102159   .1816032    -1.16   0.250    -.5715492    .1511174
       _cons |  -28.16287    29.7166    -0.95   0.346    -87.28958    30.96385
```

Model 5-6: Family planning effort predicted by 6 baseline var and short-term democracy

```
. regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg8090, r

Linear regression                                       Number of obs =      84
                                                        F(  7,    76) =   12.40
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.3860
                                                        Root MSE      =  20.608

------------------------------------------------------------------------------
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   4.900089   5.067059     0.97   0.337    -5.191834    14.99201
    giniavni |  -.1016534    .319615    -0.32   0.751    -.7382218     .534915
       ethnl |  -9.078219   7.809371    -1.16   0.249    -24.63193    6.475492
        musl |  -10.37814   8.169842    -1.27   0.208     -26.6498    5.893508
       lpopd |   6.348603   2.051138     3.10   0.003     2.263406     10.4338
      urbwdi |  -.2461498   .1918586    -1.28   0.203    -.6282692    .1359697
    pavg8090 |   1.276579   .4033969     3.16   0.002     .4731445    2.080014
       _cons |   17.69767    32.2722     0.55   0.585    -46.57798    81.97332
------------------------------------------------------------------------------
```

Model 5-6: Means and SDs of family planning effort and short-term democracy

```
. summarize rtot

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        rtot |        88       53.85    25.27719          0        104

. summarize pavg8090

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    pavg8090 |        98    -3.05551    6.120606        -10         10
```

Model 5-6: How much would family planning rise if short-term democracy rose 1 SD?

```
. estsimp regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg8090, r

Linear regression                                       Number of obs =      84
                                                        F(  7,    76) =   12.40
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.3860
                                                        Root MSE      =  20.608

------------------------------------------------------------------------------
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   4.900089   5.067059     0.97   0.337    -5.191834    14.99201
    giniavni |  -.1016534    .319615    -0.32   0.751    -.7382218     .534915
       ethnl |  -9.078219   7.809371    -1.16   0.249    -24.63193    6.475492
        musl |  -10.37814   8.169842    -1.27   0.208     -26.6498    5.893508
       lpopd |   6.348603   2.051138     3.10   0.003     2.263406     10.4338
      urbwdi |  -.2461498   .1918586    -1.28   0.203    -.6282692    .1359697
    pavg8090 |   1.276579   .4033969     3.16   0.002     .4731445    2.080014
```

```
       _cons |   17.69767    32.2722     0.55   0.585    -46.57798    81.97332
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....
% of simulations completed: 12% 25% 37% 50% 62% 75% 87% 100%


Simulating sigma-squared.  Please wait


Number of simulations  : 1000
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9

. setx mean
. simqi, fd(ev) changex(pavg8090 -3.05551 3.065096)

First Difference: pavg8090 -3.05551 3.065096

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+-----------------------------------------------
                  dE(rtot) |    7.88511     2.416456      2.89913    12.73159
```

Model 5-6: Robustness checks

Model 5-6: Robust Check 1.1: Change specification: Include fertility

```
. regress rtot lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090, r

Linear regression                                      Number of obs =      84
                                                       F(  8,    75) =   22.83
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.5434
                                                       Root MSE      =  17.889

------------------------------------------------------------------------------
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -1.221856   4.614111    -0.26   0.792    -10.41364    7.969924
    giniavni |   .2061779    .285537     0.72   0.472     -.362641    .7749968
       ethnl |   2.155171   6.232105     0.35   0.730    -10.25982    14.57016
        musl |   .7089324    6.97226     0.10   0.919    -13.18052    14.59839
     fertwdi |  -10.28262    2.06473    -4.98   0.000    -14.39577   -6.169469
       lpopd |    4.29801   1.733953     2.48   0.015     .8437996    7.752221
      urbwdi |  -.3929787   .1511975    -2.60   0.011    -.6941795   -.0917778
    pavg8090 |   .5643264   .4265672     1.32   0.190    -.2854391    1.414092
       _cons |   104.6731   35.17814     2.98   0.004     34.59468    174.7516
------------------------------------------------------------------------------
```

Model 5-6: Robust Check 1.2: Change specification: Include mean years female schooling

```
. regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg8090 mysfx, r

Linear regression                                      Number of obs =      84
                                                       F(  8,    75) =   14.11
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.4288
                                                       Root MSE      =  20.009

------------------------------------------------------------------------------
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
```

```
       lgdph |    1.07615   4.808437     0.22   0.824    -8.502747    10.65505
    giniavni |  -.0208722    .318923    -0.07   0.948    -.6561994     .614455
       ethnl |  -3.741909   7.863782    -0.48   0.636    -19.40737    11.92355
        musl |  -1.616265   8.244025    -0.20   0.845     -18.0392    14.80667
       lpopd |   6.673852   1.930185     3.46   0.001     2.828726    10.51898
      urbwdi |  -.3739554   .1851653    -2.02   0.047    -.7428235   -.0050873
    pavg8090 |   1.059006   .3944913     2.68   0.009     .2731393    1.844873
       mysfx |   4.168147   1.425285     2.92   0.005     1.328834     7.00746
       _cons |   27.92589   30.66813     0.91   0.365    -33.16816    89.01993
------------------------------------------------------------------------------
```

Model 5-6: Robust Check 1.3: Change specification: Include female literacy

```
. regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg8090 litfewdi, r

Linear regression                               Number of obs =      84
                                                F(  8,    75) =   12.22
                                                Prob > F      =  0.0000
                                                R-squared     =  0.4038
                                                Root MSE      =  20.443

------------------------------------------------------------------------------
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   2.456164   5.254218     0.47   0.642    -8.010776     12.9231
    giniavni |  -.0894832   .3099967    -0.29   0.774    -.7070283    .5280619
       ethnl |  -4.131233   8.409298    -0.49   0.625    -20.88341    12.62095
        musl |  -4.134177   8.803175    -0.47   0.640      -21.671    13.40265
       lpopd |   6.486839    2.00611     3.23   0.002     2.490463    10.48321
      urbwdi |  -.2983126   .1844826    -1.62   0.110    -.6658209    .0691956
    pavg8090 |   1.121392    .424913     2.64   0.010     .2749217    1.967862
    litfewdi |   .2028678   .1259208     1.61   0.111    -.0479793     .453715
       _cons |   22.38911   31.61419     0.71   0.481    -40.58959    85.36781
------------------------------------------------------------------------------
```

Model 5-6: Robust Check 1.4: Change specification: Include geographical variables

```
. regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg8090 airdist popcrgs latca
> pab, r

Linear regression                               Number of obs =      84
                                                F( 10,    73) =    8.98
                                                Prob > F      =  0.0000
                                                R-squared     =  0.4346
                                                Root MSE      =  20.178

------------------------------------------------------------------------------
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   5.698705   5.237613     1.09   0.280    -4.739844    16.13725
    giniavni |  -.0543743   .3126661    -0.17   0.862    -.6775169    .5687683
       ethnl |   1.489304   8.140458     0.18   0.855    -14.73461    17.71321
        musl |  -17.90009   8.145492    -2.20   0.031    -34.13403   -1.666148
       lpopd |   4.904825   2.155795     2.28   0.026     .6083315    9.201319
      urbwdi |  -.2969647   .1983141    -1.50   0.139    -.6922041    .0982748
    pavg8090 |    1.31831   .4164489     3.17   0.002     .4883285    2.148292
     airdist |  -.0022918   .0011925    -1.92   0.059    -.0046684    .0000847
     popcrgs |   .0600824   .0868235     0.69   0.491    -.1129565    .2331214
    latcapab |   .4182402   .2173049     1.92   0.058    -.0148479    .8513284
       _cons |   15.61034   30.61688     0.51   0.612    -45.40901    76.62969
```

```
------------------------------------------------------------------------------
```

Model 5-6: Robust Check 1.5: Change specification: Include regional dummies

```
. regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg8090 afri lati east sout,
> r

Linear regression                                      Number of obs =      84
                                                       F( 11,    72) =   15.16
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.3952
                                                       Root MSE      =  21.015

------------------------------------------------------------------------------
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    5.053272   6.083149     0.83   0.409    -7.073263    17.17981
    giniavni |   -.0331412   .3431751    -0.10   0.923    -.7172482    .6509658
       ethnl |   -6.670186   10.65399    -0.63   0.533    -27.90853    14.56816
        musl |   -5.880357   5.730816    -1.03   0.308    -17.30453    5.543817
       lpopd |    5.995274   2.271226     2.64   0.010     1.467667    10.52288
      urbwdi |   -.2464515   .2085358    -1.18   0.241      -.66216     .169257
    pavg8090 |    1.079127    .536426     2.01   0.048     .0097811    2.148472
        afri |    2.915093   10.66673     0.27   0.785    -18.34864    24.17883
        lati |    7.934906    11.5111     0.69   0.493    -15.01206    30.88187
        east |    8.046995   11.65863     0.69   0.492    -15.19406    31.28805
        sout |    11.91171   11.07307     1.08   0.286    -10.16206    33.98548
       _cons |    7.507818   44.78932     0.17   0.867    -81.77805    96.79369
------------------------------------------------------------------------------
```

Model 5-6: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg8090 gdphf giniavnf ethnlf
> , r

Linear regression                                      Number of obs =      84
                                                       F(  9,    74) =   12.59
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.4872
                                                       Root MSE      =  19.087

------------------------------------------------------------------------------
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    6.668227   4.567991     1.46   0.149    -2.433693    15.77015
    giniavni |   -.2016574   .3434199    -0.59   0.559    -.8859364    .4826217
       ethnl |   -12.41902   8.026661    -1.55   0.126    -28.41249    3.574454
        musl |   -12.69634   7.554171    -1.68   0.097    -27.74835    2.355673
       lpopd |    5.880314   2.077543     2.83   0.006     1.740719    10.01991
      urbwdi |   -.1828945   .1976227    -0.93   0.358    -.5766662    .2108773
    pavg8090 |    .5302944    .434939     1.22   0.227    -.3363404    1.396929
       gdphf |  (dropped)
    giniavnf |   -24.87322    6.80534    -3.65   0.000    -38.43316   -11.31329
      ethnlf |   -.6547976   10.44159    -0.06   0.950    -21.46011    20.15052
       _cons |    11.64302   31.89822     0.37   0.716    -51.91557    75.20161
------------------------------------------------------------------------------
```

Model 5-6: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg rtot lgdph giniavni ethnl musl lpopd urbwdi pavg8090

   Huber iteration 1:  maximum difference in weights = .49965157
   Huber iteration 2:  maximum difference in weights = .03750808
Biweight iteration 3:  maximum difference in weights = .15918678
Biweight iteration 4:  maximum difference in weights = .0176741
Biweight iteration 5:  maximum difference in weights = .00685786

Robust regression                                       Number of obs =      84
                                                        F(  7,    76) =    5.00
                                                        Prob > F      =  0.0001

------------------------------------------------------------------------------
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    4.893745   5.631926     0.87   0.388    -6.323208     16.1107
    giniavni |   -.0891737   .3582013    -0.25   0.804    -.8025935    .6242461
       ethnl |   -9.101264   10.29723    -0.88   0.380    -29.60997    11.40744
        musl |   -8.653598    8.31976    -1.04   0.302    -25.22384     7.91664
       lpopd |     6.37159   2.159371     2.95   0.004     2.070831    10.67235
      urbwdi |   -.2272677   .2065868    -1.10   0.275     -.638721    .1841856
    pavg8090 |    1.173534   .4853766     2.42   0.018     .2068227    2.140245
       _cons |    16.04105   40.15111     0.40   0.691    -63.92682    96.00892
------------------------------------------------------------------------------
```

Model 5-6: Robust Check 3.2: Outlier checks: Median regression

```
. qreg rtot lgdph giniavni ethnl musl lpopd urbwdi pavg8090
Iteration  1:  WLS sum of weighted deviations =  1309.9987

Iteration  1: sum of abs. weighted deviations =  1326.3541
Iteration  2: sum of abs. weighted deviations =  1311.3114
Iteration  3: sum of abs. weighted deviations =  1287.9175
Iteration  4: sum of abs. weighted deviations =  1285.7612
Iteration  5: sum of abs. weighted deviations =  1282.8098
Iteration  6: sum of abs. weighted deviations =  1282.7428
Iteration  7: sum of abs. weighted deviations =  1282.6759

Median regression                                   Number of obs =        84
  Raw sum of deviations   1710.3 (about 54.200001)
  Min sum of deviations 1282.676                    Pseudo R2     =    0.2500

------------------------------------------------------------------------------
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    .0230779   5.553569     0.00   0.997    -11.03781    11.08397
    giniavni |   -.0014156   .3612083    -0.00   0.997    -.7208243    .7179932
       ethnl |   -8.529832   10.52344    -0.81   0.420    -29.48907    12.42941
        musl |   -8.519999   8.002781    -1.06   0.290    -24.45892    7.418921
       lpopd |    5.968677   2.208742     2.70   0.008     1.569586    10.36777
      urbwdi |   -.1893715   .2034968    -0.93   0.355    -.5946705    .2159275
    pavg8090 |    1.359336   .4776791     2.85   0.006     .4079554    2.310716
       _cons |    50.12046   39.61588     1.27   0.210    -28.78141    129.0223
------------------------------------------------------------------------------
```

Model 5-6: Robust Check 3.3: Outlier checks: Discard 2 cases highst cooksd

```
. regress rtot lgdph giniavni ethnl musl lpopd urbwdi pavg8090 if ctry ~= "Kuwait" &
>  ctry ~= "Namibia", r

Linear regression                                       Number of obs =      82
                                                        F(  7,    74) =   11.95
```

```
                                                Prob > F      =  0.0000
                                                R-squared     =  0.4017
                                                Root MSE      =  19.663

------------------------------------------------------------------------------
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    6.060818   5.237136     1.16   0.251    -4.374404    16.49604
    giniavni |    .0436759   .3167299     0.14   0.891    -.5874223     .674774
       ethnl |   -8.344043   7.696069    -1.08   0.282    -23.67879     6.99071
        musl |   -7.224396   7.829676    -0.92   0.359    -22.82536    8.376573
       lpopd |    6.394308   2.041994     3.13   0.002     2.325546    10.46307
      urbwdi |   -.2495373   .1936551    -1.29   0.202    -.6354035     .136329
    pavg8090 |    1.258735   .3932941     3.20   0.002     .4750793     2.04239
       _cons |    2.532386   31.86868     0.08   0.937    -60.96735    66.03212
------------------------------------------------------------------------------
```

Model 5-6: Robust Check 6.5: IndV: Vary source: pavg8090 to pol90

```
. regress rtot lgdph giniavni ethnl musl lpopd urbwdi pol90, r

Linear regression                               Number of obs =      86
                                                F(  7,    78) =   10.90
                                                Prob > F      =  0.0000
                                                R-squared     =  0.3761
                                                Root MSE      =  20.727

------------------------------------------------------------------------------
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    5.991375   5.246648     1.14   0.257    -4.453899    16.43665
    giniavni |   -.1233327   .3227037    -0.38   0.703    -.7657865    .5191211
       ethnl |   -7.871241   7.853045    -1.00   0.319    -23.50545     7.76297
        musl |   -13.44185   7.896332    -1.70   0.093    -29.16224    2.278539
       lpopd |    6.421305   2.146742     2.99   0.004      2.14747    10.69514
      urbwdi |   -.2677838   .1894745    -1.41   0.162    -.6449985    .1094308
       pol90 |    .9319856   .3733496     2.50   0.015     .1887037    1.675267
       _cons |    8.762994   33.20117     0.26   0.793    -57.33546    74.86144
------------------------------------------------------------------------------
```

Model 5-6: Robust Check 6.6: IndV: Vary source: pavg8090 to free8090

```
. regress rtot lgdph giniavni ethnl musl lpopd urbwdi free8090, r

Linear regression                               Number of obs =      88
                                                F(  7,    80) =   12.20
                                                Prob > F      =  0.0000
                                                R-squared     =  0.3813
                                                Root MSE      =  20.735

------------------------------------------------------------------------------
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    3.701048    4.93948     0.75   0.456     -6.12883    13.53093
    giniavni |   -.0974979   .3186072    -0.31   0.760    -.7315463    .5365506
       ethnl |   -5.216325   7.970219    -0.65   0.515    -21.07757    10.64492
        musl |   -11.87052    7.76764    -1.53   0.130    -27.32861    3.587578
       lpopd |    6.361763   1.960216     3.25   0.002      2.46081    10.26272
      urbwdi |   -.1960466   .1769236    -1.11   0.271    -.5481357    .1560425
```

```
    free8090 |  -2.747897   .8385657    -3.28   0.002    -4.416696   -1.079098
       _cons |   45.41188   37.03451     1.23   0.224    -28.28914    119.1129
------------------------------------------------------------------------------
```

Model 5-6: Robust Check 6.7: IndV: Vary source: pavg8090 to free90

```
. regress rtot lgdph giniavni ethnl musl lpopd urbwdi free90, r

Linear regression                                      Number of obs =      88
                                                       F(  7,    80) =   13.05
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.3812
                                                       Root MSE      =  20.735

------------------------------------------------------------------------------
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   4.377618   4.924894     0.89   0.377    -5.423232    14.17847
    giniavni |  -.1245348   .3257737    -0.38   0.703    -.7728452    .5237756
       ethnl |  -4.907145   8.109115    -0.61   0.547     -21.0448    11.23051
        musl |  -13.85781   7.679392    -1.80   0.075    -29.14029    1.424669
       lpopd |   6.403779   1.965192     3.26   0.002     2.492923    10.31464
      urbwdi |  -.2220025    .180468    -1.23   0.222    -.5811453    .1371402
      free90 |  -2.379458    .78099    -3.05   0.003    -3.933677   -.8252379
       _cons |   38.57987   38.53937     1.00   0.320    -38.11592    115.2756
------------------------------------------------------------------------------
```

Model 5-6: Robust Ck 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)

```
. regress rtot lgdpmx giniavni ethnl musl lpopd urbwdi pavg8090, r

Linear regression                                      Number of obs =      84
                                                       F(  7,    76) =   12.33
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.3974
                                                       Root MSE      =  20.415

------------------------------------------------------------------------------
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |   8.044794   5.298571     1.52   0.133    -2.508225    18.59781
    giniavni |  -.0977097   .3138629    -0.31   0.756    -.7228218    .5274024
       ethnl |  -7.646181   7.925844    -0.96   0.338    -23.43187    8.139506
        musl |  -10.31112   7.873003    -1.31   0.194    -25.99157    5.369319
       lpopd |   6.304586   2.028815     3.11   0.003     2.263851    10.34532
      urbwdi |  -.3254018   .2089027    -1.56   0.123    -.7414675     .090664
    pavg8090 |   1.104275   .3944817     2.80   0.006      .318596    1.889953
       _cons |  -4.226218   34.58408    -0.12   0.903    -73.10637    64.65394
------------------------------------------------------------------------------
```

Model 5-6: Robust Ck 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

```
. regress rtot lgdpmx giniavni ethnl musl lpopd urbwdi pavg8090 gdpmf, r

Linear regression                                      Number of obs =      84
                                                       F(  8,    75) =   10.77
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.3974
                                                       Root MSE      =  20.551
```

```
------------------------------------------------------------------------------
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |    7.997989   5.610116     1.43   0.158    -3.177936    19.17391
    giniavni |   -.0963734   .3173715    -0.30   0.762    -.7286098     .535863
       ethnl |   -7.645661   7.978064    -0.96   0.341    -23.53878    8.247457
        musl |   -10.27745   7.989934    -1.29   0.202    -26.19421    5.639319
       lpopd |    6.323677   2.159359     2.93   0.005     2.022013    10.62534
      urbwdi |   -.3237115   .2215239    -1.46   0.148    -.7650096    .1175867
    pavg8090 |    1.105397   .3946432     2.80   0.006     .3192275    1.891566
       gdpmf |    .5248816   20.60636     0.03   0.980    -40.52509    41.57485
       _cons |   -4.087701   35.21175    -0.12   0.908    -74.23311    66.05771
------------------------------------------------------------------------------
```

Model 5-6: Robust Ck 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)

```
. regress rtot lgdph giniavni ethnannx musl lpopd urbwdi pavg8090, r

Linear regression                                      Number of obs =      84
                                                       F(  7,    76) =   11.82
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.3811
                                                       Root MSE      =   20.69

------------------------------------------------------------------------------
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    4.893494   5.506893     0.89   0.377    -6.074435    15.86142
    giniavni |    -.152001   .3184147    -0.48   0.634    -.7861787    .4821768
    ethnannx |   -6.194187   10.60032    -0.58   0.561    -27.30655    14.91818
        musl |   -10.46747    8.18952    -1.28   0.205    -26.77831    5.843375
       lpopd |    6.295557   2.150195     2.93   0.005     2.013072    10.57804
      urbwdi |   -.2054376   .1870902    -1.10   0.276      -.57806    .1671849
    pavg8090 |    1.305677    .414785     3.15   0.002     .4795612    2.131793
       _cons |    18.34983   40.07042     0.46   0.648    -61.45734    98.15699
------------------------------------------------------------------------------
```

Model 5-6: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

```
. regress rtot lgdph giniavni ethnannx musl lpopd urbwdi pavg8090 ethnannf, r

Linear regression                                      Number of obs =      84
                                                       F(  8,    75) =   10.50
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.3936
                                                       Root MSE      =  20.616

------------------------------------------------------------------------------
             |               Robust
        rtot |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    6.075625   5.437502     1.12   0.267    -4.756434    16.90768
    giniavni |   -.0183321   .3449972    -0.05   0.958    -.7056016    .6689375
    ethnannx |   -4.424997   10.66392    -0.41   0.679    -25.66862    16.81863
        musl |   -7.771277   8.551063    -0.91   0.366    -24.80587    9.263313
       lpopd |     6.39335   2.115986     3.02   0.003      2.17809    10.60861
      urbwdi |   -.2779193   .1913736    -1.45   0.151     -.659155    .1033165
    pavg8090 |    1.379521   .4361817     3.16   0.002     .5106023    2.248439
    ethnannf |    21.10128   11.67771     1.81   0.075    -2.161903    44.36447
```

```
       _cons |   4.418821   39.61241     0.11   0.911    -74.49314    83.33078
------------------------------------------------------------------------------
```

Table 2.5, Model 5-7: Short-Term Democracy and Fertility

Model 5-7: Bivariate correlations among independent variables

```
. correlate fertwdi lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090
(obs=98)

             |  fertwdi    lgdph giniavni    ethnl     musl  fertwdi    lpopd
-------------+------------------------------------------------------------------
     fertwdi |   1.0000
       lgdph |  -0.6401   1.0000
    giniavni |   0.1598  -0.0349   1.0000
       ethnl |   0.4848  -0.5203   0.2094   1.0000
        musl |   0.0859   0.3155  -0.3059  -0.3021   1.0000
     fertwdi |   1.0000  -0.6401   0.1598   0.4848   0.0859   1.0000
       lpopd |  -0.3794   0.1550  -0.3009  -0.1614  -0.0893  -0.3794   1.0000
      urbwdi |  -0.5576   0.8263  -0.0281  -0.5030   0.3134  -0.5576   0.0310
    pavg8090 |  -0.4745   0.2748   0.2211  -0.0655  -0.2853  -0.4745   0.1758

             |   urbwdi pavg8090
-------------+------------------
      urbwdi |   1.0000
    pavg8090 |   0.1718   1.0000
```

Model 5-7: Fertility predicted by 6 baseline variables

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi, r

Linear regression                                      Number of obs =     105
                                                       F(  6,    98) =   55.85
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6525
                                                       Root MSE      =  1.0167

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.8842633   .2458682    -3.60   0.001    -1.372181   -.3963459
    giniavni |   .0267901   .0119369     2.24   0.027     .0031016    .0504785
       ethnl |   .8486236   .3501207     2.42   0.017     .1538205    1.543427
        musl |   1.602146     .30901     5.18   0.000     .9889256    2.215366
       lpopd |   -.190935   .0812749    -2.35   0.021    -.3522224   -.0296476
      urbwdi |  -.0137753   .0079538    -1.73   0.086    -.0295594    .0020087
       _cons |     10.997   1.455255     7.56   0.000      8.10909     13.8849
------------------------------------------------------------------------------
```

Model 5-7: Fertility predicted by 6 baseline variables and short-term democracy

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg8090, r

Linear regression                                      Number of obs =      98
                                                       F(  7,    90) =   56.67
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6792
```

```
                                                      Root MSE      =  .95189

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.6729504   .2571806    -2.62   0.010    -1.183885   -.1620163
    giniavni |   .0367122   .0112079     3.28   0.001     .0144456    .0589787
       ethnl |   1.045767    .357099     2.93   0.004     .3363279    1.755207
        musl |   1.211978   .3001865     4.04   0.000     .6156049    1.808351
       lpopd |  -.1648729   .0782613    -2.11   0.038    -.3203526   -.0093931
      urbwdi |  -.0130461    .008731    -1.49   0.139    -.0303918    .0042995
    pavg8090 |  -.0688712   .0163922    -4.20   0.000    -.1014372   -.0363053
       _cons |   8.575563   1.522065     5.63   0.000     5.551716    11.59941
------------------------------------------------------------------------------
```

Model 5-7: Means and SDs of fertility and short-term democracy

```
. summarize fertwdi

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     fertwdi |       105    4.795238    1.674089        1.3        7.6

. summarize pavg8090

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    pavg8090 |        98    -3.05551    6.120606       -10         10
```

Model 5-7: How much would fertility rise if short-term democracy rose one SD?

```
. estsimp regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg8090, r

Linear regression                                      Number of obs =      98
                                                       F(  7,    90) =   56.67
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6792
                                                       Root MSE      =  .95189

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.6729504   .2571806    -2.62   0.010    -1.183885   -.1620163
    giniavni |   .0367122   .0112079     3.28   0.001     .0144456    .0589787
       ethnl |   1.045767    .357099     2.93   0.004     .3363279    1.755207
        musl |   1.211978   .3001865     4.04   0.000     .6156049    1.808351
       lpopd |  -.1648729   .0782613    -2.11   0.038    -.3203526   -.0093931
      urbwdi |  -.0130461    .008731    -1.49   0.139    -.0303918    .0042995
    pavg8090 |  -.0688712   .0163922    -4.20   0.000    -.1014372   -.0363053
       _cons |   8.575563   1.522065     5.63   0.000     5.551716    11.59941
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....
% of simulations completed: 12% 25% 37% 50% 62% 75% 87% 100%


Simulating sigma-squared.  Please wait


Number of simulations  : 1000
```

```
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9

. setx mean
. simqi, fd(ev) changex(pavg8090 -3.05551 3.065096)

First Difference: pavg8090 -3.05551 3.065096

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+--------------------------------------------------
               dE(fertwdi) |  -.4225245     .0978594    -.6059124    -.231426
```

Model 5-7: Robustness checks

Model 5-7: Robust Check 1.2: Change specification: Include mean years female schooling

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg8090 mysfx, r

Linear regression                                      Number of obs =      98
                                                       F(  8,    89) =   69.85
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7423
                                                       Root MSE      =  .85788

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.3133375   .2477882    -1.26   0.209    -.8056874    .1790125
    giniavni |   .0302405    .009685     3.12   0.002     .0109966    .0494844
       ethnl |    .566287   .3619144     1.56   0.121    -.1528292    1.285403
        musl |   .4875609   .2950999     1.65   0.102    -.0987964    1.073918
       lpopd |  -.1924009   .0657098    -2.93   0.004     -.322965   -.0618369
      urbwdi |   -.005919   .0073639    -0.80   0.424     -.020551    .0087129
    pavg8090 |  -.0529291   .0136664    -3.87   0.000    -.0800838   -.0257743
       mysfx |  -.3245596   .0727723    -4.46   0.000    -.4691566   -.1799625
       _cons |   7.480436   1.395889     5.36   0.000     4.706835    10.25404
------------------------------------------------------------------------------
```

Model 5-7: Robust Check 1.3: Change specification: Include female literacy

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg8090 litfewdi, r

Linear regression                                      Number of obs =      98
                                                       F(  8,    89) =   69.22
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7610
                                                       Root MSE      =   .8261

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.3332571   .2230963    -1.49   0.139    -.7765448    .1100305
    giniavni |   .0314226   .0094489     3.33   0.001     .0126478    .0501974
       ethnl |   .3463512   .3539747     0.98   0.330     -.356989    1.049691
        musl |    .298101   .2726634     1.09   0.277    -.2436755    .8398774
       lpopd |  -.1919119   .0629787    -3.05   0.003    -.3170493   -.0667745
      urbwdi |  -.0056739   .0070224    -0.81   0.421    -.0196272    .0082794
    pavg8090 |  -.0495685   .0130988    -3.78   0.000    -.0755954   -.0235415
    litfewdi |  -.0279274   .0052583    -5.31   0.000    -.0383755   -.0174792
       _cons |    8.09699   1.286137     6.30   0.000     5.541464    10.65252
------------------------------------------------------------------------------
```

Model 5-7: Robust Check 1.4: Change specification: Include geographical variables

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg8090 airdist popcrgs la
> tcapab, r

Linear regression                                      Number of obs =      98
                                                       F( 10,    87) =   45.83
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7284
                                                       Root MSE      =  .89077

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   -.551232   .2749364    -2.00   0.048    -1.097698   -.0047661
    giniavni |   .0292383    .011833     2.47   0.015     .0057189    .0527576
       ethnl |    .492472   .3815869     1.29   0.200    -.2659733    1.250917
        musl |   1.502423   .2674689     5.62   0.000     .9707992    2.034046
       lpopd |  -.1143369   .0882396    -1.30   0.198    -.2897226    .0610489
      urbwdi |  -.0124573     .00887    -1.40   0.164    -.0300875    .0051728
    pavg8090 |  -.0653716   .0156724    -4.17   0.000    -.0965221    -.034221
     airdist |   .0000346   .0000484     0.72   0.476    -.0000615    .0001308
     popcrgs |  -.0072667   .0035262    -2.06   0.042    -.0142754   -.0002579
    latcapab |   -.034313   .0106584    -3.22   0.002    -.0554978   -.0131283
       _cons |   8.747949   1.495726     5.85   0.000     5.775033    11.72087
------------------------------------------------------------------------------
```

Model 5-7: Robust Check 1.5: Change specification: Include regional dummies

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg8090 afri lati east sou
> t, r

Linear regression                                      Number of obs =      98
                                                       F( 11,    86) =   40.12
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7328
                                                       Root MSE      =  .88863

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4731177   .2916912    -1.62   0.108    -1.052981    .1067453
    giniavni |   .0218919   .0152422     1.44   0.155    -.0084086    .0521923
       ethnl |   .6244351   .3628575     1.72   0.089    -.0969017    1.345772
        musl |   .6647577   .3402572     1.95   0.054    -.0116513    1.341167
       lpopd |  -.1505691   .0754029    -2.00   0.049     -.300465   -.0006731
      urbwdi |  -.0149653   .0107033    -1.40   0.166    -.0362427    .0063122
    pavg8090 |  -.0566366   .0207084    -2.73   0.008    -.0978035   -.0154698
        afri |   .2211773   .4559413     0.49   0.629    -.6852039    1.127559
        lati |  -.5725386   .5895258    -0.97   0.334    -1.744477    .5993999
        east |   -1.16282   .5008355    -2.32   0.023    -2.158448   -.1671925
        sout |  -.5038415   .5564679    -0.91   0.368    -1.610063      .60238
       _cons |   8.301614    1.74467     4.76   0.000     4.833325     11.7699
------------------------------------------------------------------------------
```

Model 5-7: Robust Check 1.6: Change specification: Include family planning effort

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg8090 rtot, r
```

```
Linear regression                                       Number of obs =      84
                                                        F(  8,    75) =   43.44
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.7400
                                                        Root MSE      =  .88084

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4732143   .2555092    -1.85   0.068    -.9822147    .0357862
    giniavni |   .0274029   .0124961     2.19   0.031     .0025095    .0522964
       ethnl |   .8661536   .3991546     2.17   0.033     .0709969     1.66131
        musl |   .8195186   .2753447     2.98   0.004      .271004    1.368033
       lpopd |  -.0411594   .1148134    -0.36   0.721    -.2698795    .1875607
      urbwdi |  -.0204156   .0087397    -2.34   0.022    -.0378259   -.0030052
    pavg8090 |  -.0374439   .0190546    -1.97   0.053    -.0754025    .0005147
        rtot |  -.0249289    .006367    -3.92   0.000    -.0376127   -.0122451
       _cons |   8.899674   1.520591     5.85   0.000     5.870501    11.92885
------------------------------------------------------------------------------
```

Model 5-7: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg8090 gdphf giniavnf eth
> nlf, r

Linear regression                                       Number of obs =      98
                                                        F(  9,    88) =   44.64
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.6997
                                                        Root MSE      =  .93139

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.6977433   .2431153    -2.87   0.005    -1.180884   -.2146026
    giniavni |   .0419737   .0113697     3.69   0.000     .0193788    .0645686
       ethnl |   1.083288   .3692833     2.93   0.004     .3494153    1.817161
        musl |   1.195168    .294492     4.06   0.000     .6099268    1.780409
       lpopd |  -.1494852   .0707107    -2.11   0.037    -.2900079   -.0089625
      urbwdi |  -.0152365   .0088799    -1.72   0.090    -.0328834    .0024103
    pavg8090 |  -.0540403   .0167037    -3.24   0.002    -.0872353   -.0208452
       gdphf |  (dropped)
    giniavnf |   .4207368   .2529847     1.66   0.100    -.0820172    .9234908
      ethnlf |   .5841445   .6742519     0.87   0.389    -.7557895    1.924078
       _cons |   8.462688   1.604996     5.27   0.000     5.273096    11.65228
------------------------------------------------------------------------------
```

Model 5-7: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg8090

   Huber iteration 1:  maximum difference in weights = .6454307
   Huber iteration 2:  maximum difference in weights = .10571776
   Huber iteration 3:  maximum difference in weights = .02829593
Biweight iteration 4:  maximum difference in weights = .2783343
Biweight iteration 5:  maximum difference in weights = .0399464
Biweight iteration 6:  maximum difference in weights = .02270171
Biweight iteration 7:  maximum difference in weights = .02093661
Biweight iteration 8:  maximum difference in weights = .00334287
```

```
Robust regression                                       Number of obs =      98
                                                        F(  7,    90) =   33.24
                                                        Prob > F      =  0.0000

------------------------------------------------------------------------------
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.9140966   .1943888    -4.70   0.000    -1.300284   -.5279094
    giniavni |   .0390812   .0116748     3.35   0.001     .0158871    .0622752
       ethnl |   1.079456   .3487276     3.10   0.003     .3866475    1.772264
        musl |    1.02895   .2758088     3.73   0.000     .4810078    1.576893
       lpopd |    -.11022   .0690172    -1.60   0.114    -.2473347    .0268946
      urbwdi |  -.0074737   .0071916    -1.04   0.301    -.0217611    .0068138
    pavg8090 |  -.0616358   .0170501    -3.61   0.000    -.0955088   -.0277628
       _cons |   9.887153   1.381219     7.16   0.000      7.14312    12.63119
------------------------------------------------------------------------------
```

Model 5-7: Robust Check 3.2: Outlier checks: Median regression

```
. qreg fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg8090
Iteration  1:  WLS sum of weighted deviations =  67.768307

Iteration  1: sum of abs. weighted deviations =  70.106268
Iteration  2: sum of abs. weighted deviations =    67.1852
Iteration  3: sum of abs. weighted deviations =   66.70868
Iteration  4: sum of abs. weighted deviations =  66.247292
Iteration  5: sum of abs. weighted deviations =  66.148053
Iteration  6: sum of abs. weighted deviations =  66.138463
Iteration  7: sum of abs. weighted deviations =  66.023568
Iteration  8: sum of abs. weighted deviations =  66.016933
Iteration  9: sum of abs. weighted deviations =  65.990317
Iteration 10: sum of abs. weighted deviations =  65.989948
Iteration 11: sum of abs. weighted deviations =    65.9899

Median regression                                   Number of obs =        98
  Raw sum of deviations    136.9 (about 5.0999999)
  Min sum of deviations  65.9899                    Pseudo R2     =    0.5180

------------------------------------------------------------------------------
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.8431991   .1840441    -4.58   0.000    -1.208835   -.4775634
    giniavni |   .0391146   .0108082     3.62   0.000     .0176422     .060587
       ethnl |   1.203195   .3299903     3.65   0.000     .5476112    1.858778
        musl |   1.257808   .2670969     4.71   0.000     .7271737    1.788443
       lpopd |  -.0473943   .0589475    -0.80   0.424    -.1645039    .0697152
      urbwdi |  -.0084241   .0067361    -1.25   0.214    -.0218066    .0049585
    pavg8090 |  -.0672443   .0163656    -4.11   0.000    -.0997575   -.0347311
       _cons |   9.190659   1.298816     7.08   0.000     6.610334    11.77098
------------------------------------------------------------------------------
```

Model 5-7: Robust Check 3.3: Outlier checks: Discard 2 cases highst cooksd

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pavg8090 if ctry ~= "Oman" & ctry ~=
"Rwanda", r

Linear regression                                       Number of obs =      96
                                                        F(  7,    88) =   57.82
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.7255
                                                        Root MSE      =  .86924
```

```
------------------------------------------------------------------------------
             |               Robust
    fertwdi  |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdph  |  -.8335204    .227316    -3.67   0.000    -1.285263   -.3817777
   giniavni  |    .043106   .0104931     4.11   0.000     .0222531    .0639589
      ethnl  |   1.307302   .3205191     4.08   0.000     .6703379    1.944267
       musl  |     1.2067   .2823034     4.27   0.000      .645681    1.767718
      lpopd  |  -.1334904   .0686068    -1.95   0.055    -.2698319    .0028512
     urbwdi  |  -.0055878   .0073752    -0.76   0.451    -.0202444    .0090688
   pavg8090  |  -.0607356   .0161262    -3.77   0.000     -.092783   -.0286882
      _cons  |   8.928413   1.372586     6.50   0.000     6.200687    11.65614
------------------------------------------------------------------------------
```

Model 5-7: Robust Check 6.5: IndV: Vary source: pavg8090 to pol90

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi pol90, r

Linear regression                                      Number of obs =     101
                                                       F(  7,    93) =   62.39
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6723
                                                       Root MSE      =  .96916

------------------------------------------------------------------------------
             |               Robust
    fertwdi  |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdph  |  -.7115122   .2524873    -2.82   0.006    -1.212902   -.2101225
   giniavni  |   .0364221   .0110174     3.31   0.001     .0145436    .0583005
      ethnl  |   .7657542    .353235     2.17   0.033     .0642995    1.467209
       musl  |   1.288768   .3214587     4.01   0.000     .6504147    1.927121
      lpopd  |  -.1753709   .0776437    -2.26   0.026    -.3295559   -.0211859
     urbwdi  |  -.0138026   .0085447    -1.62   0.110    -.0307706    .0031655
      pol90  |  -.0607271   .0152597    -3.98   0.000      -.09103   -.0304243
      _cons  |   9.188839   1.511291     6.08   0.000     6.187715    12.18996
------------------------------------------------------------------------------
```

Model 5-7: Robust Check 6.6: IndV: Vary source: pavg8090 to free8090

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi free8090, r

Linear regression                                      Number of obs =     104
                                                       F(  7,    96) =   61.18
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6774
                                                       Root MSE      =  .96844

------------------------------------------------------------------------------
             |               Robust
    fertwdi  |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdph  |  -.6425258   .2562763    -2.51   0.014     -1.15123   -.1338215
   giniavni  |   .0355048   .0117146     3.03   0.003     .0122514    .0587581
      ethnl  |   .8587333   .3400338     2.53   0.013     .1837715    1.533695
       musl  |   1.375674   .2955751     4.65   0.000     .7889619    1.962386
      lpopd  |  -.1518371   .0765133    -1.98   0.050    -.3037148    .0000405
     urbwdi  |  -.0157805   .0077097    -2.05   0.043     -.031084   -.0004769
   free8090  |    .128972   .0372919     3.46   0.001     .0549483    .2029958
      _cons  |   7.489246    1.89384     3.95   0.000     3.730004    11.24849
------------------------------------------------------------------------------
```

Model 5-7: Robust Check 6.7: IndV: Vary source: pavg8090 to free90

```
. regress fertwdi lgdph giniavni ethnl musl lpopd urbwdi free90, r

Linear regression                                       Number of obs =     104
                                                        F(  7,    96) =   64.54
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.6706
                                                        Root MSE      =  .97873

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.7193319   .2536048    -2.84   0.006    -1.222733   -.2159304
    giniavni |   .0353273   .0119315     2.96   0.004     .0116434    .0590111
       ethnl |    .832844   .3467501     2.40   0.018     .1445504    1.521138
        musl |   1.457638   .2952329     4.94   0.000     .8716053     2.04367
       lpopd |  -.1567422   .0776984    -2.02   0.046    -.3109722   -.0025121
      urbwdi |  -.0137801   .0076434    -1.80   0.075    -.0289522    .0013919
      free90 |   .1001795    .034025     2.94   0.004     .0326404    .1677185
       _cons |   8.305011   1.861573     4.46   0.000     4.609819     12.0002
------------------------------------------------------------------------------
```

Model 5-7: Robust Ck 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)

```
. regress fertwdi lgdpmx giniavni ethnl musl lpopd urbwdi pavg8090, r

Linear regression                                       Number of obs =      97
                                                        F(  7,    89) =   56.06
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.6863
                                                        Root MSE      =  .94431

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |  -.7663841   .2515885    -3.05   0.003    -1.266285   -.2664831
    giniavni |   .0370077   .0115603     3.20   0.002     .0140376    .0599778
       ethnl |   .9805498   .3600996     2.72   0.008     .2650396     1.69606
        musl |   1.108858   .2927673     3.79   0.000     .5271352     1.69058
       lpopd |  -.1692625   .0769908    -2.20   0.031    -.3222416   -.0162834
      urbwdi |  -.0118646   .0086476    -1.37   0.174    -.0290472    .005318
    pavg8090 |  -.0579082   .0184654    -3.14   0.002    -.0945985   -.0212179
       _cons |   9.337073   1.479162     6.31   0.000     6.398009    12.27614
------------------------------------------------------------------------------
```

Model 5-7: Robust Ck 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

```
. regress fertwdi lgdpmx giniavni ethnl musl lpopd urbwdi pavg8090 gdpmf, r

Linear regression                                       Number of obs =      97
                                                        F(  8,    88) =   52.49
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.7038
                                                        Root MSE      =  .92282

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
```

```
-------------+----------------------------------------------------------------
      lgdpmx |  -.6299321   .2736255    -2.30   0.024    -1.173705   -.0861588
    giniavni |   .0336584   .0114042     2.95   0.004     .0109949    .056322
       ethnl |    1.06417   .3521051     3.02   0.003     .3644352    1.763905
        musl |   1.056654   .2776088     3.81   0.000     .5049649    1.608343
       lpopd |   -.207354   .0677678    -3.06   0.003    -.3420283   -.0726797
      urbwdi |  -.0163231   .0093843    -1.74   0.085    -.0349724    .0023261
    pavg8090 |   -.057837   .0178382    -3.24   0.002    -.0932866   -.0223874
       gdpmf |  -1.319951   .6758127    -1.95   0.054    -2.662986    .0230852
       _cons |   8.797331   1.605298     5.48   0.000     5.607137    11.98752
------------------------------------------------------------------------------
```

Model 5-7: Robust Ck 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)

```
. regress fertwdi lgdph giniavni ethnannx musl lpopd urbwdi pavg8090, r

Linear regression                                      Number of obs =      98
                                                       F(  7,    90) =   55.48
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6598
                                                       Root MSE      =  .98025

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.6782538   .2694705    -2.52   0.014    -1.213604   -.1429036
    giniavni |   .0410523   .0120463     3.41   0.001     .0171202    .0649843
    ethnannx |   .6864437   .4302503     1.60   0.114    -.1683236    1.541211
        musl |   1.178559   .3001461     3.93   0.000     .5822666    1.774852
       lpopd |  -.1649005   .0844694    -1.95   0.054    -.3327137    .0029128
      urbwdi |  -.0172636   .0087699    -1.97   0.052    -.0346865    .0001592
    pavg8090 |  -.0703734   .0165913    -4.24   0.000    -.1033349   -.0374119
       _cons |   8.641879   1.692438     5.11   0.000     5.279555     12.0042
------------------------------------------------------------------------------
```

Model 5-7: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

```
. regress fertwdi lgdph giniavni ethnannx musl lpopd urbwdi pavg8090 ethnannf, r

Linear regression                                      Number of obs =      98
                                                       F(  8,    89) =   54.41
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6692
                                                       Root MSE      =    .972

------------------------------------------------------------------------------
             |               Robust
     fertwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   -.761904   .2623265    -2.90   0.005    -1.283141   -.2406669
    giniavni |   .0359074   .0120066     2.99   0.004     .0120506    .0597643
    ethnannx |   .6136935   .4301378     1.43   0.157    -.2409811    1.468368
        musl |    1.17432   .3000709     3.91   0.000     .5780857    1.770555
       lpopd |  -.1748199   .0879947    -1.99   0.050    -.3496635    .0000236
      urbwdi |  -.0140974   .0081795    -1.72   0.088    -.0303499     .002155
    pavg8090 |  -.0722258   .0164285    -4.40   0.000    -.1048689   -.0395826
    ethnannf |  -.7743698   .3819287    -2.03   0.046    -1.533254   -.0154855
       _cons |   9.480268    1.67758     5.65   0.000     6.146952    12.81358
------------------------------------------------------------------------------
```

Table 2.5, Model 5-8: Family Planning Effort and Fertility

Identical to Model 4-8

Table 2.5, Model 5-9: Short-Term Democracy and Access to Improved Water

Model 5-9: Bivariate correlations among independent variables

```
. correlate watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090
(obs=98)

             |  watecom    lgdph giniavni    ethnl     musl  fertwdi    lpopd
-------------+------------------------------------------------------------------
     watecom |   1.0000
       lgdph |   0.7460   1.0000
    giniavni |  -0.1597  -0.0349   1.0000
       ethnl |  -0.5026  -0.5203   0.2094   1.0000
        musl |   0.2571   0.3155  -0.3059  -0.3021   1.0000
     fertwdi |  -0.7050  -0.6401   0.1598   0.4848   0.0859   1.0000
       lpopd |   0.2910   0.1550  -0.3009  -0.1614  -0.0893  -0.3794   1.0000
      urbwdi |   0.6817   0.8263  -0.0281  -0.5030   0.3134  -0.5576   0.0310
    pavg8090 |   0.4047   0.2748   0.2211  -0.0655  -0.2853  -0.4745   0.1758

             |   urbwdi pavg8090
-------------+------------------
      urbwdi |   1.0000
    pavg8090 |   0.1718   1.0000
```

Model 5-9: Safe water predicted by 7 baseline variables only

```
. regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r

Linear regression                                      Number of obs =     105
                                                       F(  7,    97) =   39.61
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6630
                                                       Root MSE      =  14.112

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   6.747359   3.154281     2.14   0.035     .4869837    13.00773
    giniavni |  -.0095592   .1924176    -0.05   0.960    -.3914549    .3723365
       ethnl |   -4.22441   5.694025    -0.74   0.460    -15.52547    7.076654
        musl |   9.860655   6.411555     1.54   0.127    -2.864507    22.58582
     fertwdi |  -5.317322   1.289151    -4.12   0.000    -7.875931   -2.758714
       lpopd |   1.416057   1.017448     1.39   0.167    -.6032962     3.43541
      urbwdi |   .1548265   .1077148     1.44   0.154    -.0589575    .3686105
       _cons |   30.53144   23.48419     1.30   0.197    -16.07818    77.14106
------------------------------------------------------------------------------
```

Model 5-9: Safe water predicted by 7 baseline variables and short-term demoracy

```
. regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090, r

Linear regression                                      Number of obs =      98
                                                       F(  8,    89) =   42.74
```

```
                                                Prob > F      =  0.0000
                                                R-squared     =  0.7104
                                                Root MSE      =  13.199

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   6.199762   3.080384     2.01   0.047      .079105    12.32042
    giniavni |  -.1399799   .1742423    -0.80   0.424    -.4861957    .2062358
       ethnl |  -2.918215   5.327857    -0.55   0.585    -13.50455    7.668123
        musl |   10.83491   6.704524     1.62   0.110    -2.486833    24.15666
     fertwdi |  -4.218291   1.374751    -3.07   0.003    -6.949892   -1.48669
       lpopd |   1.511713   1.008476     1.50   0.137    -.4921075    3.515534
      urbwdi |   .2112081   .1094456     1.93   0.057     -.006258    .4286741
    pavg8090 |   .8102921   .2534861     3.20   0.002     .3066206    1.313964
       _cons |   34.27764   23.96873     1.43   0.156    -13.34771    81.90299
------------------------------------------------------------------------------
```

Model 5-9: Means and SDs of access to improved water and short-term democracy

```
. summarize watecom

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     watecom |       105    68.07619    23.47613          4        100

. summarize pavg8090

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    pavg8090 |        98    -3.05551    6.120606        -10         10
```

Model 5-9: How much would access to water rise if short-term democracy rose 1 SD?

```
. estsimp regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090,
>  r

Linear regression                               Number of obs =      98
                                                F(  8,    89) =   42.74
                                                Prob > F      =  0.0000
                                                R-squared     =  0.7104
                                                Root MSE      =  13.199

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   6.199762   3.080384     2.01   0.047      .079105    12.32042
    giniavni |  -.1399799   .1742423    -0.80   0.424    -.4861957    .2062358
       ethnl |  -2.918215   5.327857    -0.55   0.585    -13.50455    7.668123
        musl |   10.83491   6.704524     1.62   0.110    -2.486833    24.15666
     fertwdi |  -4.218291   1.374751    -3.07   0.003    -6.949892   -1.48669
       lpopd |   1.511713   1.008476     1.50   0.137    -.4921075    3.515534
      urbwdi |   .2112081   .1094456     1.93   0.057     -.006258    .4286741
    pavg8090 |   .8102921   .2534861     3.20   0.002     .3066206    1.313964
       _cons |   34.27764   23.96873     1.43   0.156    -13.34771    81.90299
------------------------------------------------------------------------------

Simulating main parameters.  Please wait....
% of simulations completed: 11% 22% 33% 44% 55% 66% 77% 88% 100%
```

```
Simulating sigma-squared.  Please wait


Number of simulations  : 1000
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9 b10

. setx mean
. simqi, fd(ev) changex(pavg8090 -3.05551 3.065096)

First Difference: pavg8090 -3.05551 3.065096

      Quantity of Interest |     Mean       Std. Err.    [95% Conf. Interval]
---------------------------+-----------------------------------------------
               dE(watecom) |   4.928731     1.534727     2.034966    7.881142
```

Model 5-9: Robustness checks

Model 5-9: Robust Check 1.1: Change specification: Exclude fertility

```
. regress watecom lgdph giniavni ethnl musl lpopd urbwdi pavg8090, r

Linear regression                                      Number of obs =      98
                                                       F(  7,    90) =   45.06
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6833
                                                       Root MSE      =  13.726

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   9.038462   2.987671     3.03   0.003     3.102932    14.97399
    giniavni |  -.2948425   .1748309    -1.69   0.095    -.6421746    .0524896
       ethnl |  -7.329566   5.389027    -1.36   0.177    -18.03581    3.376676
        musl |   5.722438   6.219745     0.92   0.360     -6.63417    18.07905
       lpopd |   2.207195   1.068806     2.07   0.042     .0838243    4.330565
      urbwdi |   .2662405   .1145486     2.32   0.022     .0386696    .4938113
    pavg8090 |   1.100811   .2425209     4.54   0.000     .6190009    1.582621
       _cons |   -1.89658   20.96981    -0.09   0.928    -43.55677    39.76361
------------------------------------------------------------------------------
```

Model 5-9: Robust Check 1.2: Change specification: Include mean years female schooling

```
. regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 mysfx, r

Linear regression                                      Number of obs =      98
                                                       F(  9,    88) =   37.60
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7104
                                                       Root MSE      =  13.273

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   6.264834   3.200342     1.96   0.053    -.0951739    12.62484
    giniavni |  -.1397642   .1745072    -0.80   0.425    -.4865607    .2070323
       ethnl |  -2.996607   5.253166    -0.57   0.570    -13.43617    7.442956
        musl |   10.69573   6.950842     1.54   0.127    -3.117605    24.50907
     fertwdi |   -4.27466   1.545356    -2.77   0.007    -7.345731   -1.203589
       lpopd |   1.494534   1.054883     1.42   0.160    -.6018237    3.590892
```

```
      urbwdi |   .2125141   .1116025     1.90   0.060    -.0092724    .4343006
    pavg8090 |   .8109763    .256951     3.16   0.002     .3003401    1.321612
       mysfx |  -.0929657   1.181889    -0.08   0.937    -2.441722     2.25579
       _cons |   34.44736   24.24016     1.42   0.159    -13.72487    82.61958
------------------------------------------------------------------------------
```

Model 5-9: Robust Check 1.3: Change specification: Include female literacy

```
. regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 litfewdi,
> r

Linear regression                                      Number of obs =      98
                                                       F(  9,    88) =   37.78
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7104
                                                       Root MSE      =  13.273

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   6.124588   3.146204     1.95   0.055    -.1278325    12.37701
    giniavni |  -.1418059   .1737316    -0.82   0.417    -.4870608    .2034491
       ethnl |   -2.72462   5.374451    -0.51   0.613    -13.40521    7.955971
        musl |   11.10551   7.005584     1.59   0.116    -2.816613    25.02764
     fertwdi |  -4.104066   1.521432    -2.70   0.008    -7.127593   -1.080539
       lpopd |   1.542648   1.045095     1.48   0.143    -.5342594    3.619555
      urbwdi |   .2093985   .1104952     1.90   0.061    -.0101874    .4289845
    pavg8090 |   .8095193   .2562019     3.16   0.002     .3003718    1.318667
    litfewdi |   .0124999   .0774985     0.16   0.872    -.1415121    .1665119
       _cons |    33.5123   24.65068     1.36   0.177    -15.47574    82.50034
------------------------------------------------------------------------------
```

Model 5-9: Robust Check 1.4: Change specification: Include geographical variables

```
. regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 airdist po
> pcrgs latcapab, r

Linear regression                                      Number of obs =      98
                                                       F( 11,    86) =   30.95
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7126
                                                       Root MSE      =  13.377

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   6.332334   3.293151     1.92   0.058    -.2142331     12.8789
    giniavni |  -.1436018   .1658938    -0.87   0.389    -.4733879    .1861842
       ethnl |   -3.98821   6.275586    -0.64   0.527    -16.46366    8.487243
        musl |   12.23691   7.379318     1.66   0.101    -2.432692    26.90651
     fertwdi |  -4.606996   1.446696    -3.18   0.002    -7.482933    -1.73106
       lpopd |   1.344816   1.207282     1.11   0.268    -1.055181    3.744814
      urbwdi |   .1971477   .1080157     1.83   0.071    -.0175805    .4118759
    pavg8090 |   .7764269   .2608451     2.98   0.004     .2578839     1.29497
     airdist |  -.0000535   .0007571    -0.07   0.944    -.0015586    .0014517
     popcrgs |  -.0023178   .0496336    -0.05   0.963    -.1009862    .0963505
    latcapab |  -.1247813   .1848114    -0.68   0.501    -.4921742    .2426115
       _cons |   39.20676   26.29316     1.49   0.140    -13.06231    91.47583
------------------------------------------------------------------------------
```

Model 5-9: Robust Check 1.5: Change specification: Include regional dummies

```
. regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 afri lati
> east sout, r

Linear regression                                      Number of obs =      98
                                                       F( 12,    85) =   29.73
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7117
                                                       Root MSE      =  13.476

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   6.827273   3.607882     1.89   0.062     -.346164    14.00071
    giniavni |   -.164177    .177673    -0.92   0.358    -.5174385    .1890845
       ethnl |  -3.259553   7.673007    -0.42   0.672    -18.51555    11.99644
        musl |   11.56811   9.746118     1.19   0.239    -7.809783    30.94601
     fertwdi |   -4.55491   1.552012    -2.93   0.004    -7.640726   -1.469094
       lpopd |   1.488663   1.029521     1.45   0.152    -.5583003    3.535626
      urbwdi |   .1962688   .1382109     1.42   0.159    -.0785316    .4710692
    pavg8090 |   .7709075   .3067174     2.51   0.014     .1610711    1.380744
        afri |    2.75991   13.18295     0.21   0.835    -23.45133    28.97115
        lati |   1.493505   11.17039     0.13   0.894    -20.71622    23.70323
        east |  -.5269978   11.85695    -0.04   0.965    -24.10179     23.0478
        sout |   1.650528   12.26169     0.13   0.893      -22.729    26.03005
       _cons |   31.33241    31.3234     1.00   0.320     -30.9469    93.61172
------------------------------------------------------------------------------
```

Model 5-9: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 gdphf gini
> avnf ethnlf, r

Linear regression                                      Number of obs =      98
                                                       F( 10,    87) =   40.63
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7204
                                                       Root MSE      =  13.117

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   5.944738    3.18224     1.87   0.065    -.3803081    12.26978
    giniavni |  -.0560364   .1890855    -0.30   0.768    -.4318643    .3197915
       ethnl |   -1.39263   5.678901    -0.25   0.807    -12.68006    9.894801
        musl |   11.50507   6.749159     1.70   0.092    -1.909616    24.91975
     fertwdi |  -4.502468   1.382715    -3.26   0.002    -7.250764   -1.754173
       lpopd |   1.549927   .9807539     1.58   0.118    -.3994272    3.499282
      urbwdi |    .196188   .1125832     1.74   0.085    -.0275832    .4199592
    pavg8090 |   .7606709   .2955897     2.57   0.012     .1731543    1.348188
       gdphf |  (dropped)
    giniavnf |  -2.537224   4.661132    -0.54   0.588    -11.80173    6.727282
      ethnlf |   11.17536   5.042573     2.22   0.029     1.152702    21.19802
       _cons |   33.37623   24.26709     1.38   0.173    -14.85724    81.60971
------------------------------------------------------------------------------
```

Model 5-9: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090

   Huber iteration 1:  maximum difference in weights = .69300927
   Huber iteration 2:  maximum difference in weights = .06708933
   Huber iteration 3:  maximum difference in weights = .02646879
Biweight iteration 4:  maximum difference in weights = .29104437
Biweight iteration 5:  maximum difference in weights = .05092671
Biweight iteration 6:  maximum difference in weights = .02614643
Biweight iteration 7:  maximum difference in weights = .02082838
Biweight iteration 8:  maximum difference in weights = .01433872
Biweight iteration 9:  maximum difference in weights = .01003243
Biweight iteration 10:  maximum difference in weights = .0059315

Robust regression                                       Number of obs =      98
                                                        F(  8,    89) =   27.36
                                                        Prob > F      =  0.0000

------------------------------------------------------------------------------
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   5.772778   2.976398     1.94   0.056    -.1412627    11.68682
    giniavni |  -.1198601   .1771431    -0.68   0.500    -.4718397    .2321195
       ethnl |  -2.745443   5.270517    -0.52   0.604    -13.21785    7.726962
        musl |   14.00141   4.353893     3.22   0.002     5.350316     22.6525
     fertwdi |  -4.112266   1.419058    -2.90   0.005    -6.931904   -1.292629
       lpopd |   1.408033   1.027875     1.37   0.174    -.6343324    3.450399
      urbwdi |   .1950177   .1059241     1.84   0.069    -.0154512    .4054866
    pavg8090 |   .7845297   .2658763     2.95   0.004     .2562392     1.31282
       _cons |   37.23121   23.43744     1.59   0.116    -9.338478     83.8009
------------------------------------------------------------------------------
```

Model 5-9: Robust Check 3.2: Outlier checks: Median regression

```
. qreg watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090
Iteration  1:  WLS sum of weighted deviations =  939.32809

Iteration  1: sum of abs. weighted deviations =   1001.939
Iteration  2: sum of abs. weighted deviations =  933.82395
Iteration  3: sum of abs. weighted deviations =  929.99586
Iteration  4: sum of abs. weighted deviations =  926.85842
Iteration  5: sum of abs. weighted deviations =  926.13794
Iteration  6: sum of abs. weighted deviations =  925.15994
Iteration  7: sum of abs. weighted deviations =  922.25773
Iteration  8: sum of abs. weighted deviations =   921.8573
Iteration  9: sum of abs. weighted deviations =  921.74136
Iteration 10: sum of abs. weighted deviations =  921.22151
Iteration 11: sum of abs. weighted deviations =   920.5424
Iteration 12: sum of abs. weighted deviations =  920.22532
Iteration 13: sum of abs. weighted deviations =  920.06632
Iteration 14: sum of abs. weighted deviations =  919.97636
Iteration 15: sum of abs. weighted deviations =  919.96444

Median regression                                   Number of obs =        98
  Raw sum of deviations     1911 (about 72)
  Min sum of deviations 919.9644                    Pseudo R2     =    0.5186

------------------------------------------------------------------------------
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   4.579416   3.199885     1.43   0.156    -1.778688    10.93752
    giniavni |  -.2875273   .1903516    -1.51   0.134     -.665752    .0906973
       ethnl |   -7.32796   6.017551    -1.22   0.227    -19.28471    4.628786
        musl |    12.2727   4.985905     2.46   0.016     2.365816    22.17959
```

```
     fertwdi |  -3.659824   1.512067    -2.42   0.018     -6.66427   -.6553785
       lpopd |   .0796249   1.111128     0.07   0.943    -2.128163    2.287413
      urbwdi |   .2393208   .1181192     2.03   0.046     .0046204    .4740211
    pavg8090 |   .7908619     .28503     2.77   0.007     .2245133     1.35721
       _cons |   56.51829    24.8888     2.27   0.026     7.064765    105.9718
------------------------------------------------------------------------------
```

Model 5-9: Robust Check 3.3: Outlier checks: Discard 2 cases highst cooksd

```
. regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 if ctry ~=
>  "Afghanistan" & ctry ~= "Somalia", r

Linear regression                                      Number of obs =      96
                                                       F(  8,    87) =   44.57
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7566
                                                       Root MSE      =  11.724

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   5.765303   2.900396     1.99   0.050     .0004512    11.53015
    giniavni |  -.1323569   .1611234    -0.82   0.414     -.452607    .1878933
       ethnl |  -.8611682   4.825354    -0.18   0.859    -10.45208    8.729746
        musl |    12.9032   4.995827     2.58   0.011     2.973452    22.83295
     fertwdi |  -4.543988   1.379584    -3.29   0.001    -7.286061   -1.801914
       lpopd |   1.676098   1.000545     1.68   0.097    -.3125928    3.664788
      urbwdi |   .2028994   .1055459     1.92   0.058    -.0068846    .4126834
    pavg8090 |   .8069112   .2488491     3.24   0.002     .3122967    1.301526
       _cons |   37.49439   23.29304     1.61   0.111    -8.803047    83.79182
------------------------------------------------------------------------------
```

Model 5-9: Robust Check 6.5: IndV: Vary source: pavg8090 to pol90

```
. regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pol90, r

Linear regression                                      Number of obs =     101
                                                       F(  8,    92) =   39.26
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.6943
                                                       Root MSE      =  13.341

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   7.171633   3.135658     2.29   0.024     .9439454    13.39932
    giniavni |  -.1898562   .1943843    -0.98   0.331    -.5759201    .1962077
       ethnl |  -4.559489   5.185502    -0.88   0.382    -14.85834    5.739366
        musl |   9.898463   6.470865     1.53   0.130    -2.953233    22.75016
     fertwdi |  -3.616417   1.381199    -2.62   0.010    -6.359598   -.8732359
       lpopd |   1.770373   1.053035     1.68   0.096    -.3210461    3.861791
      urbwdi |   .1611288   .1095271     1.47   0.145    -.0564016    .3786592
       pol90 |   .6824308   .2334708     2.92   0.004     .2187376    1.146124
       _cons |   27.21153   23.62806     1.15   0.252    -19.71585     74.1389
------------------------------------------------------------------------------
```

Model 5-9: Robust Check 6.6: IndV: Vary source: pavg8090 to free8090

```
. regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi free8090, r
```

```
Linear regression                               Number of obs =     104
                                                F(  8,    95) =   43.27
                                                Prob > F      =  0.0000
                                                R-squared     =  0.6922
                                                Root MSE      =  13.504

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   4.946654   3.139746     1.58   0.118     -1.28653    11.17984
    giniavni |  -.1564414   .1893659    -0.83   0.411    -.5323803    .2194976
       ethnl |  -5.318942   5.325809    -1.00   0.320    -15.89201    5.254126
        musl |   10.36655   6.286915     1.65   0.102    -2.114554    22.84765
     fertwdi |  -3.789349   1.324774    -2.86   0.005    -6.419358   -1.159339
       lpopd |   1.412882    .971414     1.45   0.149    -.5156183    3.341383
      urbwdi |   .2112681   .1039271     2.03   0.045     .0049468    .4175894
    free8090 |   -1.71088   .5295726    -3.23   0.002    -2.762215   -.6595458
       _cons |   58.18503   25.32667     2.30   0.024     7.905231    108.4648
------------------------------------------------------------------------------
```

Model 5-9: Robust Check 6.7: IndV: Vary source: pavg8090 to free90

```
. regress watecom lgdph giniavni ethnl musl fertwdi lpopd urbwdi free90, r

Linear regression                               Number of obs =     104
                                                F(  8,    95) =   37.98
                                                Prob > F      =  0.0000
                                                R-squared     =  0.6853
                                                Root MSE      =  13.655

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   5.789799   3.132547     1.85   0.068    -.4290926    12.00869
    giniavni |  -.1412247    .198938    -0.71   0.480    -.5361665    .2537171
       ethnl |  -4.724101   5.385836    -0.88   0.383    -15.41634    5.968136
        musl |   9.682592   6.332171     1.53   0.130    -2.888358    22.25354
     fertwdi |  -4.090781   1.328238    -3.08   0.003    -6.727666   -1.453896
       lpopd |   1.441893   .9581934     1.50   0.136    -.4603617    3.344147
      urbwdi |   .1806884   .1047381     1.73   0.088    -.0272431    .3886198
      free90 |  -1.274188     .45578    -2.80   0.006    -2.179026   -.3693504
       _cons |   49.18119    24.5466     2.00   0.048     .4500288    97.91235
------------------------------------------------------------------------------
```

Model 5-9: Robust Ck 7.1: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx)

```
. regress watecom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg8090, r

Linear regression                               Number of obs =      97
                                                F(  8,    88) =   39.91
                                                Prob > F      =  0.0000
                                                R-squared     =  0.7140
                                                Root MSE      =  13.049

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |   8.376484   3.140189     2.67   0.009     2.136019    14.61695
```

```
    giniavni |  -.1762677   .1733568    -1.02   0.312    -.5207779    .1682425
       ethnl |  -2.715082   5.173064    -0.52   0.601    -12.99546    7.565295
        musl |   11.00943   6.210668     1.77   0.080    -1.332969    23.35183
     fertwdi |  -3.822805   1.335716    -2.86   0.005    -6.477259   -1.16835
       lpopd |   1.474794   .9776288     1.51   0.135    -.4680373    3.417626
      urbwdi |   .1697179   .1068997     1.59   0.116    -.0427228    .3821587
    pavg8090 |   .6921803   .2747074     2.52   0.014     .1462571    1.238104
       _cons |   18.81841   25.30177     0.74   0.459    -31.46354    69.10036
------------------------------------------------------------------------------
```

Model 5-9: Robust Ck 7.2: CtrlV: Vary source: GDP/cap (lgdph to lgdpmx), msg flags

```
. regress watecom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 gdpmf, r

Linear regression                                      Number of obs =      97
                                                       F(  9,    87) =   35.35
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7144
                                                       Root MSE      =  13.115

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |   8.584369   3.142231     2.73   0.008     2.338843    14.82989
    giniavni |   -.179121   .1749671    -1.02   0.309     -.526887    .1686449
       ethnl |  -2.408428   5.234336    -0.46   0.647    -12.81224    7.995382
        musl |   11.03072   6.250156     1.76   0.081    -1.392144    23.45358
     fertwdi |  -3.946414   1.358029    -2.91   0.005    -6.645643   -1.247185
       lpopd |   1.369395   .9796757     1.40   0.166     -.577817    3.316606
      urbwdi |   .1583634    .106124     1.49   0.139    -.0525694    .3692963
    pavg8090 |   .6851801   .2759022     2.48   0.015     .1367946    1.233566
       gdpmf |  -2.927323   8.534984    -0.34   0.732    -19.89153    14.03688
       _cons |   18.77555   25.48044     0.74   0.463    -31.86959    69.42068
------------------------------------------------------------------------------
```

Model 5-9: Robust Ck 7.3: CtrlV: Vary source: ethnic frag (ethnl to ethnannx)

```
. regress watecom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg8090, r

Linear regression                                      Number of obs =      98
                                                       F(  8,    89) =   41.01
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.7105
                                                       Root MSE      =  13.197

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   5.910383   3.094437     1.91   0.059    -.2381962    12.05896
    giniavni |  -.1463736   .1707697    -0.86   0.394    -.4856894    .1929422
    ethnannx |  -3.543358      6.078    -0.58   0.561    -15.62022    8.533499
        musl |   10.91172   6.867273     1.59   0.116     -2.73341    24.55684
     fertwdi |  -4.317664   1.378203    -3.13   0.002    -7.056124   -1.579204
       lpopd |    1.45054    .998227     1.45   0.150    -.5329159    3.433995
      urbwdi |   .2232411   .1055453     2.12   0.037     .0135248    .4329573
    pavg8090 |   .8118909   .2518246     3.22   0.002     .3115209    1.312261
       _cons |   37.76362   24.04403     1.57   0.120    -10.01135    85.53859
------------------------------------------------------------------------------
```

Model 5-9: Robust Ck 7.4: CtrlV: Vary source: ethnic frag (ethnl to ethnannx), msg flags

```
. regress watecom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg8090 ethnann
> f, r

Linear regression                                       Number of obs =      98
                                                        F(  9,    88) =   36.33
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.7171
                                                        Root MSE      =   13.12

------------------------------------------------------------------------------
             |               Robust
     watecom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |    4.64613   3.140031     1.48   0.143    -1.594021    10.88628
    giniavni |  -.1958538   .1918242    -1.02   0.310    -.5770641    .1853565
    ethnannx |  -4.206837   6.168775    -0.68   0.497    -16.46598    8.052308
        musl |   11.26203     6.3115     1.78   0.078    -1.280748    23.80481
     fertwdi |  -4.659302   1.390031    -3.35   0.001    -7.421697   -1.896906
       lpopd |   1.271762   1.036835     1.23   0.223    -.7887296    3.332255
      urbwdi |   .2564252   .1187483     2.16   0.034     .0204379    .4924125
    pavg8090 |   .7649842   .2648305     2.89   0.005     .2386893    1.291279
    ethnannf |  -9.558432   12.17715    -0.78   0.435    -33.75795    14.64109
       _cons |   51.06467    26.4564     1.93   0.057    -1.511879    103.6412
------------------------------------------------------------------------------
```

Table 2.5, Model 5-10: Short-Term Democracy and Infant Mortality

Model 5-10: Bivariate correlations among independent variables

```
. correlate limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090
(obs=98)

             |  limrcom    lgdph giniavni    ethnl     musl  fertwdi    lpopd   urbwdi pavg8090
-------------+---------------------------------------------------------------------------------
     limrcom |   1.0000
       lgdph |  -0.8333   1.0000
    giniavni |   0.1650  -0.0349   1.0000
       ethnl |   0.5440  -0.5203   0.2094   1.0000
        musl |  -0.0823   0.3155  -0.3059  -0.3021   1.0000
     fertwdi |   0.7587  -0.6401   0.1598   0.4848   0.0859   1.0000
       lpopd |  -0.3550   0.1550  -0.3009  -0.1614  -0.0893  -0.3794   1.0000
      urbwdi |  -0.7229   0.8263  -0.0281  -0.5030   0.3134  -0.5576   0.0310   1.0000
    pavg8090 |  -0.3519   0.2748   0.2211  -0.0655  -0.2853  -0.4745   0.1758   0.1718
```

Model 5-10: Infant mortality predicted by 7 baseline variables only (same as Model 2-3)

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi, r

Linear regression                                       Number of obs =     105
                                                        F(  7,    97) =  115.48
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8460
                                                        Root MSE      =  .32809

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
```

```
-------------+----------------------------------------------------------------
       lgdph |  -.5106892   .0728516    -7.01   0.000    -.6552793    -.366099
    giniavni |   .0098456   .0057971     1.70   0.093      -.00166    .0213512
       ethnl |   .2291501   .1208339     1.90   0.061    -.0106718     .468972
        musl |   .3573075   .1090143     3.28   0.001     .1409443    .5736707
     fertwdi |   .0883452   .0306893     2.88   0.005     .0274354    .1492551
       lpopd |  -.0713372   .0317142    -2.25   0.027    -.1342811   -.0083933
      urbwdi |  -.0046217   .0022445    -2.06   0.042    -.0090765   -.0001669
       _cons |   7.311515   .6431156    11.37   0.000     6.035109    8.587922
------------------------------------------------------------------------------
```

Model 5-10: Infant Mortality predicted by 7 baseline variables and short-term democracy

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090, r

Linear regression                                      Number of obs =      98
                                                       F(  8,    89) =   67.29
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8270
                                                       Root MSE      =  .33735

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5045953   .0790077    -6.39   0.000    -.6615819   -.3476087
    giniavni |   .0105381   .0060199     1.75   0.083    -.0014233    .0224995
       ethnl |    .238571   .1329821     1.79   0.076    -.0256617    .5028036
        musl |   .3489742    .117668     2.97   0.004     .1151704     .582778
     fertwdi |   .0738801   .0336582     2.20   0.031      .007002    .1407582
       lpopd |  -.0668536   .0344128    -1.94   0.055    -.1352312    .0015239
      urbwdi |  -.0050127   .0026379    -1.90   0.061    -.0102541    .0002287
    pavg8090 |  -.0051223    .006951    -0.74   0.463    -.0189338    .0086891
       _cons |    7.29213   .6901443    10.57   0.000     5.920828    8.663432
------------------------------------------------------------------------------
```

Model 5-10: Robustness checks

Model 5-10: Robust Check 1.1: Change specification: Exclude fertility

```
. regress limrcom lgdph giniavni ethnl musl lpopd urbwdi pavg8090, r

Linear regression                                      Number of obs =      98
                                                       F(  7,    90) =   77.84
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8194
                                                       Root MSE      =  .34276

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5543129   .0710028    -7.81   0.000    -.6953725   -.4132534
    giniavni |   .0132504   .0061498     2.15   0.034     .0010327    .0254681
       ethnl |   .3158323   .1304303     2.42   0.017     .0567098    .5749549
        musl |   .4385152    .117642     3.73   0.000     .2047988    .6722317
       lpopd |  -.0790345   .0330776    -2.39   0.019     -.144749   -.0133199
      urbwdi |  -.0059766   .0027856    -2.15   0.035    -.0115106   -.0004426
    pavg8090 |  -.0102106    .006558    -1.56   0.123    -.0232392    .0028181
       _cons |   7.925693   .5880949    13.48   0.000      6.75734    9.094046
------------------------------------------------------------------------------
```

Model 5-10: Robust Ck 1.1a: Change specification: Exclude fertility, -2 highest cooksd

```
. regress limrcom lgdph giniavni ethnl musl lpopd urbwdi pavg8090 if ctry ~= "Mongolia" & ctry ~=
"Cuba"

      Source |       SS       df       MS              Number of obs =      96
-------------+------------------------------           F(  7,    88) =   64.40
       Model |  46.4105222     7   6.6300746           Prob > F      =  0.0000
    Residual |   9.0602905    88  .102957847           R-squared     =  0.8367
-------------+------------------------------           Adj R-squared =  0.8237
       Total |  55.4708127    95  .583903292           Root MSE      =  .32087

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5833843   .0714239    -8.17   0.000    -.7253243   -.4414444
    giniavni |   .0134439   .0046158     2.91   0.005     .0042709    .0226169
       ethnl |   .3390478   .1281729     2.65   0.010     .0843311    .5937644
        musl |   .4478714   .1050257     4.26   0.000     .2391548     .656588
       lpopd |  -.0550821   .0268484    -2.05   0.043    -.1084377   -.0017265
      urbwdi |  -.0046584   .0026872    -1.73   0.087    -.0099986    .0006819
    pavg8090 |   -.010871   .0062006    -1.75   0.083    -.0231934    .0014513
       _cons |   7.980398   .5274094    15.13   0.000     6.932283    9.028514
------------------------------------------------------------------------------
```

Model 5-10: Robust Check 1.2: Change specification: Include mean years of female school

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 mysfx, r

Linear regression                                      Number of obs =      98
                                                       F(  9,    88) =   63.12
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8455
                                                       Root MSE      =  .32065

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4388159   .0799923    -5.49   0.000    -.5977837    -.279848
    giniavni |   .0107562   .0059481     1.81   0.074    -.0010643    .0225767
       ethnl |   .1593279   .1317853     1.21   0.230    -.1025676    .4212234
        musl |   .2082811   .1158266     1.80   0.076    -.0218999    .4384621
     fertwdi |   .0168981   .0349545     0.48   0.630    -.0525666    .0863627
       lpopd |  -.0842191    .035777    -2.35   0.021    -.1553185   -.0131198
      urbwdi |  -.0036925   .0026589    -1.39   0.168    -.0089764    .0015915
    pavg8090 |  -.0044307   .0069248    -0.64   0.524    -.0181922    .0093308
       mysfx |  -.0939758   .0274111    -3.43   0.001    -.1484496   -.0395021
       _cons |    7.46369   .7117649    10.49   0.000     6.049207    8.878173
------------------------------------------------------------------------------
```

Model 5-10: Robust Check 1.3: Change specification: Include female literacy

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 litfewdi, r

Linear regression                                      Number of obs =      98
                                                       F(  9,    88) =   58.98
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8407
                                                       Root MSE      =  .32559
```

```
------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   -.466442    .076256    -6.12   0.000    -.6179848   -.3148992
    giniavni |   .0114648   .0060712     1.89   0.062    -.0006004      .02353
       ethnl |   .1403147   .1272131     1.10   0.273    -.1124946     .393124
        musl |   .2116359   .1207433     1.75   0.083     -.028316    .4515878
     fertwdi |   .0159071   .0388497     0.41   0.683    -.0612984    .0931127
       lpopd |  -.0825541   .0351501    -2.35   0.021    -.1524076   -.0127006
      urbwdi |  -.0040943   .0027157    -1.51   0.135    -.0094911    .0013025
    pavg8090 |  -.0047301   .0068096    -0.69   0.489    -.0182627    .0088024
    litfewdi |  -.0063441   .0021011    -3.02   0.003    -.0105197   -.0021685
       _cons |   7.680566    .699276    10.98   0.000     6.290901     9.07023
------------------------------------------------------------------------------
```

Model 5-10: Robust Check 1.4: Change specification: Incl geographical variables

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 airdist popcrgs latcapab,
r

Linear regression                                      Number of obs =      98
                                                       F( 11,    86) =   50.91
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8339
                                                       Root MSE      =  .33627

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4953973   .0779702    -6.35   0.000    -.6503969   -.3403977
    giniavni |   .0113564   .0056965     1.99   0.049     .0000321    .0226807
       ethnl |   .3032974   .1273502     2.38   0.019     .0501337    .5564612
        musl |   .2725183   .1288222     2.12   0.037     .0164283    .5286084
     fertwdi |    .090386   .0386594     2.34   0.022     .0135337    .1672382
       lpopd |  -.0508295   .0332601    -1.53   0.130    -.1169484    .0152893
      urbwdi |  -.0044644   .0026612    -1.68   0.097    -.0097547     .000826
    pavg8090 |  -.0028947   .0072883    -0.40   0.692    -.0173834     .011594
     airdist |  -9.23e-06   .0000182    -0.51   0.613    -.0000454     .000027
     popcrgs |  -.0008886   .0011904    -0.75   0.457     -.003255    .0014778
    latcapab |   .0062187   .0040098     1.55   0.125    -.0017526      .01419
       _cons |   6.998859   .6461199    10.83   0.000     5.714415    8.283303
------------------------------------------------------------------------------
```

Model 5-10: Robust Check 1.5: Change specification: Include regional dummies

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 afri lati east sout, r

Linear regression                                      Number of obs =      98
                                                       F( 12,    85) =   47.26
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8293
                                                       Root MSE      =  .34292

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5329039   .0948784    -5.62   0.000    -.7215475   -.3442603
    giniavni |    .012318   .0062933     1.96   0.054    -.0001948    .0248309
       ethnl |   .2535829   .1641064     1.55   0.126    -.0727046    .5798705
```

```
        musl |   .2722065   .1047294     2.60   0.011     .0639765    .4804366
     fertwdi |   .0799093   .0414851     1.93   0.057    -.0025742    .1623928
       lpopd |  -.0696161   .0353562    -1.97   0.052    -.1399136    .0006814
      urbwdi |  -.0039032   .0032531    -1.20   0.234    -.0103713    .0025648
    pavg8090 |  -.0045229     .00923    -0.49   0.625    -.0228746    .0138288
        afri |  -.1434022   .1357867    -1.06   0.294    -.4133826    .1265781
        lati |  -.1207812    .211787    -0.57   0.570    -.5418704    .3003081
        east |  -.0789175     .17249    -0.46   0.648    -.4218738    .2640388
        sout |   .0257162   .2170851     0.12   0.906    -.4059072    .4573396
       _cons |   7.465959   .8423204     8.86   0.000       5.7912    9.140718
------------------------------------------------------------------------------
```

Model 5-10: Robust Check 2.1: Imputation check: Include missing data flags

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 gdphf giniavnf ethnlf, r

Linear regression                                      Number of obs =      98
                                                       F( 10,    87) =   51.46
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8380
                                                       Root MSE      =  .33023

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4841035   .0744238    -6.50   0.000    -.6320289   -.3361781
    giniavni |   .0071958   .0058682     1.23   0.223     -.004468    .0188595
       ethnl |   .1856752    .133503     1.39   0.168    -.0796765    .4510268
        musl |   .3223158   .1157348     2.78   0.007     .0922803    .5523512
     fertwdi |   .0940195   .0321512     2.92   0.004     .0301155    .1579236
       lpopd |   -.068697   .0325046    -2.11   0.037    -.1333034   -.0040906
      urbwdi |  -.0040299   .0026051    -1.55   0.126    -.0092078    .0011479
    pavg8090 |  -.0066006    .006922    -0.95   0.343    -.0203588    .0071576
       gdphf |  (dropped)
    giniavnf |  -.0495309   .0861734    -0.57   0.567    -.2208098     .121748
      ethnlf |  -.3457947   .1682633    -2.06   0.043    -.6802362   -.0113532
       _cons |   7.208462   .6124959    11.77   0.000      5.99106    8.425864
------------------------------------------------------------------------------
```

Model 5-10: Robust Check 3.1: Outlier checks: Robust regression

```
. rreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090

   Huber iteration 1:  maximum difference in weights = .46496616
   Huber iteration 2:  maximum difference in weights = .08761523
   Huber iteration 3:  maximum difference in weights = .01282814
Biweight iteration 4:  maximum difference in weights = .15649768
Biweight iteration 5:  maximum difference in weights = .01407672
Biweight iteration 6:  maximum difference in weights = .00254776

Robust regression                                      Number of obs =      98
                                                       F(  8,    89) =   46.45
                                                       Prob > F      =  0.0000

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5017038   .0838119    -5.99   0.000    -.6682362   -.3351714
    giniavni |   .0111559   .0049881     2.24   0.028     .0012445    .0210672
       ethnl |   .2499687   .1484116     1.68   0.096     -.044922    .5448593
        musl |   .3540931   .1226005     2.89   0.005     .1104885    .5976977
```

```
     fertwdi |   .0765627    .039959     1.92   0.059     -.002835    .1559604
       lpopd |  -.0540939   .0289438    -1.87   0.065    -.1116045    .0034167
      urbwdi |  -.0051873   .0029827    -1.74   0.085    -.0111138    .0007393
    pavg8090 |   -.004839   .0074868    -0.65   0.520     -.019715    .0100371
       _cons |   7.184185   .6599707    10.89   0.000     5.872837    8.495532
------------------------------------------------------------------------------
```

Model 5-10: Robust Check 3.2: Outlier checks: Median regression

```
. qreg limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090
Iteration  1:  WLS sum of weighted deviations =  25.802323

Iteration  1: sum of abs. weighted deviations =  25.475739
Iteration  2: sum of abs. weighted deviations =  25.395838
Iteration  3: sum of abs. weighted deviations =  25.332311
Iteration  4: sum of abs. weighted deviations =  25.244717
Iteration  5: sum of abs. weighted deviations =  25.220778
Iteration  6: sum of abs. weighted deviations =  25.170145
Iteration  7: sum of abs. weighted deviations =  25.166834

Median regression                                   Number of obs =        98
  Raw sum of deviations 61.51615 (about 4.1271343)
  Min sum of deviations 25.16683                    Pseudo R2     =    0.5909

------------------------------------------------------------------------------
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4326221    .104955    -4.12   0.000    -.6411654   -.2240787
    giniavni |   .0104867   .0064752     1.62   0.109    -.0023794    .0233528
       ethnl |   .1753957   .1836314     0.96   0.342    -.1894759    .5402674
        musl |    .274257   .1502941     1.82   0.071    -.0243741    .5728881
     fertwdi |   .1032122   .0503884     2.05   0.043     .0030916    .2033328
       lpopd |  -.0640686    .037101    -1.73   0.088    -.1377875    .0096503
      urbwdi |   -.006339    .003848    -1.65   0.103    -.0139848    .0013069
    pavg8090 |   -.002962   .0096301    -0.31   0.759    -.0220969    .0161729
       _cons |   6.729543   .8268164     8.14   0.000     5.086677     8.37241
------------------------------------------------------------------------------
```

Model 5-10: Robust Check 3.3: Outlier checks: Discard 2 cases highest cooksd

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 if ctry ~= "Mongolia" &
ctry ~= "Cuba", r

Linear regression                                   Number of obs =      96
                                                    F(  8,    87) =   61.95
                                                    Prob > F      =  0.0000
                                                    R-squared     =  0.8428
                                                    Root MSE      =   .3166

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5360531   .0712453    -7.52   0.000    -.6776609   -.3944453
    giniavni |   .0115457   .0051974     2.22   0.029     .0012153     .021876
       ethnl |    .275023   .1269781     2.17   0.033     .0226402    .5274058
        musl |   .3770214   .1057118     3.57   0.001     .1669077     .587135
     fertwdi |   .0654923   .0303045     2.16   0.033     .0052587    .1257258
       lpopd |  -.0430929   .0277487    -1.55   0.124    -.0982465    .0120607
      urbwdi |  -.0040015   .0024924    -1.61   0.112    -.0089555    .0009526
    pavg8090 |  -.0062542   .0067405    -0.93   0.356    -.0196517    .0071433
       _cons |    7.37109   .5543789    13.30   0.000     6.269202    8.472979
```

Model 5-10: Robust Check 5.1: DepV: change IMR to U5MR (limrcom to lu5mrcom)

```
. regress lu5mrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090, r

Linear regression                                       Number of obs =      98
                                                        F(  8,    89) =   72.09
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8315
                                                        Root MSE      =  .38364

------------------------------------------------------------------------------
             |               Robust
    lu5mrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5253003   .0961597    -5.46   0.000    -.7163677    -.334233
    giniavni |   .0096849   .0066102     1.47   0.146    -.0034495    .0228193
       ethnl |   .3268423   .1578252     2.07   0.041     .0132471    .6404375
        musl |   .2847177   .1330912     2.14   0.035     .0202683     .549167
     fertwdi |    .106339   .0393338     2.70   0.008     .0281836    .1844943
       lpopd |  -.0759772   .0378084    -2.01   0.048    -.1511017   -.0008527
      urbwdi |  -.0057211   .0030467    -1.88   0.064    -.0117749    .0003326
    pavg8090 |  -.0100683   .0081111    -1.24   0.218    -.0261849    .0060483
       _cons |   7.674179   .8287572     9.26   0.000     6.027456    9.320902
------------------------------------------------------------------------------
```

Model 5-10: Robust Check 5.2: DepV: Vary source: infant mortality (limrcom to limrwdi)

```
. regress limrwdi lgdph giniavni ethnl musl fertwdi lpopd urbwdi pavg8090, r

Linear regression                                       Number of obs =      98
                                                        F(  8,    89) =   74.84
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8458
                                                        Root MSE      =  .31574

------------------------------------------------------------------------------
             |               Robust
     limrwdi |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4980542   .0738438    -6.74   0.000    -.6447803   -.3513281
    giniavni |    .011731   .0054299     2.16   0.033     .0009419    .0225202
       ethnl |   .1845545   .1191028     1.55   0.125    -.0521001    .4212091
        musl |   .2827785   .1116053     2.53   0.013     .0610211    .5045359
     fertwdi |    .098046   .0317742     3.09   0.003     .0349114    .1611806
       lpopd |  -.0430421   .0263418    -1.63   0.106    -.0953827    .0092986
      urbwdi |  -.0048411   .0026097    -1.86   0.067    -.0100266    .0003444
    pavg8090 |  -.0033091   .0068138    -0.49   0.628     -.016848    .0102298
       _cons |   7.029437   .6290442    11.17   0.000     5.779539    8.279334
------------------------------------------------------------------------------
```

Model 5-10: Robust Check 6.5: IndV: Vary source: pavg8090 to pol90

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi pol90, r

Linear regression                                       Number of obs =     101
                                                        F(  8,    92) =   70.58
                                                        Prob > F      =  0.0000
                                                        R-squared     =  0.8251
                                                        Root MSE      =  .33614
```

```
------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5076704   .0785054    -6.47   0.000    -.6635888   -.3517519
    giniavni |   .0096712    .006051     1.60   0.113    -.0023465    .0216889
       ethnl |   .2421963   .1257071     1.93   0.057    -.0074687    .4918614
        musl |   .3559339   .1138282     3.13   0.002     .1298613    .5820066
     fertwdi |   .0896921   .0315532     2.84   0.006     .0270248    .1523595
       lpopd |  -.0683067   .0346556    -1.97   0.052    -.1371358    .0005223
      urbwdi |  -.0044318   .0026266    -1.69   0.095    -.0096485    .0007848
       pol90 |   .0005023   .0056102     0.09   0.929    -.0106399    .0116446
       _cons |   7.267295   .6838396    10.63   0.000     5.909131     8.62546
------------------------------------------------------------------------------
```

Model 5-10: Robust Check 6.6: IndV: Vary source: pavg8090 to free8090

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi free8090, r

Linear regression                                      Number of obs =     104
                                                       F(  8,    95) =   80.42
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8346
                                                       Root MSE      =  .33108

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5043111    .075832    -6.65   0.000    -.6548566   -.3537656
    giniavni |   .0103645   .0056825     1.82   0.071    -.0009166    .0216456
       ethnl |   .2367949   .1226763     1.93   0.057    -.0067484    .4803382
        musl |    .353758   .1101216     3.21   0.002     .1351389    .5723771
     fertwdi |   .0852302   .0335064     2.54   0.013     .0187116    .1517489
       lpopd |   -.067483   .0331989    -2.03   0.045    -.1333911   -.0015749
      urbwdi |  -.0046124   .0022789    -2.02   0.046    -.0091367   -.0000881
    free8090 |    .004467   .0137573     0.32   0.746    -.0228447    .0317786
       _cons |   7.195571   .6824858    10.54   0.000     5.840665    8.550477
------------------------------------------------------------------------------
```

Model 5-10: Robust Check 6.7: IndV: Vary source: pavg8090 to free90

```
. regress limrcom lgdph giniavni ethnl musl fertwdi lpopd urbwdi free90, r

Linear regression                                      Number of obs =     104
                                                       F(  8,    95) =   81.62
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8344
                                                       Root MSE      =  .33127

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.5098933   .0745452    -6.84   0.000    -.6578841   -.3619024
    giniavni |   .0098879   .0056748     1.74   0.085    -.0013779    .0211538
       ethnl |   .2323253   .1234844     1.88   0.063    -.0128221    .4774728
        musl |   .3556633   .1096073     3.24   0.002     .1380653    .5732613
     fertwdi |   .0894577   .0332819     2.69   0.008     .0233847    .1555307
       lpopd |  -.0686136   .0333705    -2.06   0.043    -.1348623   -.0023649
      urbwdi |  -.0045007   .0022606    -1.99   0.049    -.0089885   -.0000129
```

```
      free90 |  -.0005148   .0116276    -0.04   0.965    -.0235986     .022569
       _cons |   7.288191   .6647769    10.96   0.000     5.968442     8.60794
------------------------------------------------------------------------------
```

Model 5-10: Robust Check 7.1: CtrlV: Vary source: GDP/cap at PPP (lgdph to lgdpmx)

```
. regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg8090, r

Linear regression                                      Number of obs =      97
                                                       F(  8,    88) =   60.62
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8367
                                                       Root MSE      =  .32943

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |  -.5368288   .0837271    -6.41   0.000    -.7032189   -.3704387
    giniavni |   .0104784   .0050981     2.06   0.043      .000347    .0206097
       ethnl |   .2055628   .1299839     1.58   0.117    -.0527528    .4638784
        musl |   .2723354   .1111425     2.45   0.016     .0514631    .4932077
     fertwdi |   .0604053   .0358563     1.68   0.096    -.0108516    .1316622
       lpopd |  -.0785463   .0275992    -2.85   0.006    -.1333939   -.0236988
      urbwdi |  -.0058867   .0024319    -2.42   0.018    -.0107196   -.0010539
    pavg8090 |   .0004616   .0073975     0.06   0.950    -.0142393    .0151625
       _cons |   7.749256   .7149004    10.84   0.000     6.328542    9.169971
------------------------------------------------------------------------------
```

Model 5-10: Robust Check 7.2: CtrlV: Vary source: lgdph to lgdpmx, msg flags

```
. regress limrcom lgdpmx giniavni ethnl musl fertwdi lpopd urbwdi pavg8090 gdpmf, r

Linear regression                                      Number of obs =      97
                                                       F(  9,    87) =   53.67
                                                       Prob > F      =  0.0000
                                                       R-squared     =  0.8370
                                                       Root MSE      =  .33109

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      lgdpmx |  -.5315657   .0862618    -6.16   0.000    -.7030204   -.3601109
    giniavni |   .0104061   .0051448     2.02   0.046     .0001803    .0206319
       ethnl |   .2133266    .131354     1.62   0.108    -.0477538     .474407
        musl |   .2728744   .1110836     2.46   0.016     .0520837    .4936651
     fertwdi |   .0572758   .0377737     1.52   0.133    -.0178034     .132355
       lpopd |  -.0812148     .02973    -2.73   0.008    -.1403064   -.0221233
      urbwdi |  -.0061742   .0026342    -2.34   0.021    -.0114099   -.0009385
    pavg8090 |   .0002843   .0074591     0.04   0.970    -.0145414    .0151101
       gdpmf |  -.0741132   .1742739    -0.43   0.672    -.4205015    .2722751
       _cons |   7.748171   .7205166    10.75   0.000     6.316066    9.180276
------------------------------------------------------------------------------
```

Model 5-10: Robust Check 7.3: CtrlV: Vary source: ethnic fragment (ethnl to ethnannx)

```
. regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg8090, r

Linear regression                                      Number of obs =      98
                                                       F(  8,    89) =   70.32
```

```
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8266
                                                Root MSE      =  .33775

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4833274   .0852412    -5.67   0.000    -.6526998   -.3139549
    giniavni |   .0110509   .0059473     1.86   0.066    -.0007663    .0228681
    ethnannx |   .2685296   .1647067     1.63   0.107    -.0587392    .5957984
        musl |   .3402121   .1175951     2.89   0.005     .1065532     .573871
     fertwdi |   .0827314   .0334705     2.47   0.015     .0162262    .1492366
       lpopd |  -.0622788   .0339782    -1.83   0.070    -.1297927    .0052351
      urbwdi |  -.0059598   .0027608    -2.16   0.034    -.0114454   -.0004742
    pavg8090 |  -.0051483    .006958    -0.74   0.461    -.0189737    .0086771
       _cons |   7.035096   .7537476     9.33   0.000     5.537416    8.532776
------------------------------------------------------------------------------
```

Model 5-10: Robust Check 7.4: CtrlV: Vary source: ethnl to ethnannx, msg flags

```
. regress limrcom lgdph giniavni ethnannx musl fertwdi lpopd urbwdi pavg8090 ethnannf, r

Linear regression                               Number of obs =      98
                                                F(  9,    88) =   62.56
                                                Prob > F      =  0.0000
                                                R-squared     =  0.8269
                                                Root MSE      =  .33941

------------------------------------------------------------------------------
             |               Robust
     limrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4916001   .0892693    -5.51   0.000    -.6690041   -.3141962
    giniavni |   .0107271   .0059364     1.81   0.074    -.0010703    .0225245
    ethnannx |   .2641881   .1661634     1.59   0.115    -.0660269     .594403
        musl |   .3425045   .1181751     2.90   0.005     .1076563    .5773527
     fertwdi |   .0804958    .033736     2.39   0.019     .0134526    .1475391
       lpopd |  -.0634487   .0338529    -1.87   0.064    -.1307242    .0038268
      urbwdi |  -.0057426   .0027567    -2.08   0.040    -.0112209   -.0002644
    pavg8090 |  -.0054552   .0069867    -0.78   0.437    -.0193398    .0084293
    ethnannf |  -.0625467   .2217887    -0.28   0.779    -.5033053    .3782118
       _cons |   7.122133    .787539     9.04   0.000     5.557065    8.687201
------------------------------------------------------------------------------
```

Replication of Filmer and Pritchett Model with Developing Countries Only

The results obtained by Filmer and Pritchett (1999) (Model FP) were replicated using a similar model (Model TS) to predict the under-5 mortality rate in 1990.

	FP	**TS**
GDP per capita at PPP (ln)	-.611 (9.71)	-.400*** (4.52)
Mean years of schooling, female	-.093 (3.54)	-.144*** (4.62)
Gini index of income inequality	.008 (1.28)	.014** (2.81)

Ethno-linguistic fractionalization	.549 (3.43)	.246 (1.55)
More than 90% of population Muslim	.450 (3.18)	.330* (2.16)
Public health spend. share of GDP (ln)	-.135 (1.78)	-.082 (1.22)
% population urban	.001 (0.46)	-.011 (0.27)
Country within 20 degrees of equator	-.051 (0.55)	-.035 (0.10)
% pop. with access to safe water	-.001 (0.61)	-.005* (2.17)
Number of cases	98	103
R-squared	.9469	.8811

Model FP: Filmer and Pritchett findings for developing and industrialized countries.
Model TS: This study's findings for developing countries only.

Dependent variable: Under-5 deaths per 1000 live births (natural log).
Universe: 105 developing countries circa 1990.
Top number: unstandardized OLS coefficient; bottom number: absolute value of t-score.
†signif. at .10 level; *signif. at .05 level; **signif. at .01 level; ***signif. at .001 level (all two-tailed).
nb.: Filmer and Pritchett do not use asterisks to signify the P-values of their t-scores.

Additional variables: Constant term, dummy variable flags for missing data, dummy variables for Sub-Saharan Africa, Latin America and the Caribbean, South Asia, and East Asia and the Pacific. None of the dummy variables for region or for missing data had a statistically significant effect on under-5 mortality in Model 1.

Check on robustness: As in the Filmer and Pritchett study, the two country observations with the largest impact on the parameter vector (as identified by Cook's D test) were dropped. In Model FP, South Korea and Zaire were dropped. In Model TS, Mongolia and Singapore were dropped.

The exercises differed in three ways:

1. Model TS included developing countries only, whereas Model FP included industrialized as well as developing countries.

2. Model TS used a wider range of data sources to construct each variable.

3. Model TS used updated sources of data for GDP per capita and female schooling.

Despite these differences, the models produced results that were similar in four important respects.

1. The predictor variables explained a very high proportion of the cross-national variance in under-5 mortality.

2. GDP per capita and female education were by far the strongest predictors.

3. All statistically significant predictor variables had the expected signs.

4. Urbanization, tropical location, and public health care spending as a share of GDP all lacked significant associations with under-5 mortality.

Five differences in the findings should also be noted.

1. The regressors in Model FP explained 95 percent of the cross-national variancein under-5 mortality, whereas the regressors in Model TS explained only 88 percent.

2. GDP per capita had a weaker association with under-5 mortality in Model TS than in Model FP, whereas mean years of female schooling had a stronger association.

3. The Gini index of income inequality had a stronger association with under-5 mortality in Model TS than in Model FP, perhaps because Model TS was applied exclusively to developing countries, or perhaps because different methods were used in each study to impute the values of missing observations. In Model TS, 25 of the 105 societies lacked data on the Gini index. These societies were assigned the Gini index of the country identified as the "nearest neighbor" according to the method described in Rajkumar and Swaroop (2002: 26-27). If the nearest neighbor's Gini was also missing, the country was assigned the mean Gini of the world region in which it is located -- either the Middle East and North Africa, sub-Saharan Africa, Latin America and the Caribbean, South Asia, or East Asia and the Pacific. Filmer and Pritchett, by contrast, apparently assigned the world average Gini, rather than a regional average Gini, to countries with missing data (Filmer 2001).

4. Ethnolinguistic fractionalization and Muslim religion had weaker effects in Model TS than in Model FP. Both differences could be due to the different universe of cases; the difference in ethnolinguistic fractionalization could also be due to different sources of data on this indicator. Filmer and Pritchett (1999) used ethnolinguistic fractionalization data associated with Easterly and Levine (1996), which provided figures for 72 of the 105 cases studied here. The present study uses ethnolinguistic fractionalization data from La Porta et al. 1998, which provided figures for 98 of the 105 cases (figures were assigned to the 7 missing cases based on the ethnic composition of countries judged to be similar on this dimension). Checks for robustness involved using missing data flags for the La Porta et al. data and using an alternative ethnolinguistic fractionalization data set constructed by Annett (2001), which provided figures for 98 of the 105 cases. Across 72 cases included in all three data sets, the La Porta et al. figures had a .87 correlation with the Easterly and Levine figures and a .74 correlation with the Annett figures. When Model 2-1 was reestimated using the Annett rather than the La Porta et al. data, the coefficient on ethnolinguistic fractionalization rose to .356 and was significant at almost the .05 level (t= 1.97). If Muslim religion is measured not as whether more than 90 percent of the country's inhabitants are Muslim, but as the percentage of Muslims in the population (La Porta et al. 1998), its association with under-5 mortality vanishes.

5. Access to safe water was associated significantly in Model TS, but not in Model FP, with lower under-5 mortality.

Statistical Output for Replication of Filmer and Pritchett Model

```
. regress lu5mrcom lgdph mysfx giniavni ethnl musl lhlxpuwd urbwdi trop20 watecom afri lati east
sout gdphf giniavnf ethnlf if ctry ~= "Singapore" & ctry ~= "Mongolia"

      Source |       SS       df       MS              Number of obs =     103
-------------+------------------------------           F( 16,    86) =   39.85
       Model |  72.5362133    16  4.53351333           Prob > F      =  0.0000
    Residual |   9.7842228    86  .113770033           R-squared     =  0.8811
-------------+------------------------------           Adj R-squared =  0.8590
       Total |  82.3204361   102  .807063099           Root MSE      =   .3373

------------------------------------------------------------------------------
    lu5mrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |   -.400053   .0885338    -4.52   0.000    -.5760523   -.2240536
       mysfx |  -.1438388   .0311159    -4.62   0.000    -.2056951   -.0819824
    giniavni |   .0144282   .0051258     2.81   0.006     .0042384    .024618
       ethnl |   .2462685   .1586456     1.55   0.124    -.0691084    .5616455
        musl |   .3302258    .152959     2.16   0.034     .0261534    .6342982
    lhlxpuwd |  -.0815258   .0666571    -1.22   0.225    -.2140358    .0509842
      urbwdi |   -.000914   .0033645    -0.27   0.787    -.0076023    .0057743
      trop20 |  -.0109813   .1106328    -0.10   0.921     -.230912    .2089494
     watecom |  -.0052927   .0024388    -2.17   0.033    -.0101409   -.0004446
        afri |   .1646999   .1915122     0.86   0.392    -.2160138    .5454136
        lati |   .1086827   .2124879     0.51   0.610    -.3137293    .5310948
        east |   .0361725   .2095722     0.17   0.863    -.3804432    .4527882
        sout |   .0873081   .2178342     0.40   0.690    -.3457319    .5203481
       gdphf |  -.2698908   .3846996    -0.70   0.485    -1.034648    .4948667
    giniavnf |   .0042965   .0946761     0.05   0.964    -.1839133    .1925064
      ethnlf |  -.1833751    .170679    -1.07   0.286    -.5226737    .1559235
       _cons |   7.421959    .562778    13.19   0.000     6.303193    8.540725
------------------------------------------------------------------------------
```

Correlations among three indicators of ethnic fragmentation

```
. correlate ethnel ethnl ethnann
(obs=72)

             |   ethnel    ethnl  ethnann
-------------+---------------------------
      ethnel |   1.0000
       ethnl |   0.8733   1.0000
     ethnann |   0.7440   0.7426   1.0000
```

ethnel is ethnolinguistic fractionalization according to Filmer (2001), which takes the variable from Easterly and Levine (1996). ethnl is ethnolinguistic fractionalization according to La Porta et al. 1998. ethnann is ethnolinguistic fractionalization according to Annett 2001.

Model TS with ethnic fractionalization measured by Annett rather than La Porta et al.

```
. regress lu5mrcom lgdph mysfx giniavni ethnannx musl lhlxpuwd urbwdi trop20 watecom afri lati east
sout gdphf giniavnf ethnannf if ctry ~= "Singapore" & ctry ~= "Mongolia"

      Source |       SS       df       MS              Number of obs =     103
-------------+------------------------------           F( 16,    86) =   39.62
       Model |  72.4873408    16   4.5304588           Prob > F      =  0.0000
    Residual |   9.8330953    86  .114338317           R-squared     =  0.8806
-------------+------------------------------           Adj R-squared =  0.8583
       Total |  82.3204361   102  .807063099           Root MSE      =  .33814

------------------------------------------------------------------------------
    lu5mrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.4019847   .0977047    -4.11   0.000    -.5962151   -.2077543
```

```
      mysfx |  -.1473361   .0315204    -4.67   0.000    -.2099967   -.0846756
   giniavni |   .0160002   .0049582     3.23   0.002     .0061437    .0258567
   ethnannx |     .31999   .1817281     1.76   0.082    -.0412736    .6812536
       musl |   .2901627   .1524098     1.90   0.060    -.0128179    .5931433
   lhlxpuwd |  -.0824921   .0641072    -1.29   0.202    -.2099331    .0449488
     urbwdi |  -.0014928    .003557    -0.42   0.676    -.0085639    .0055782
     trop20 |  -.0498994   .1148014    -0.43   0.665    -.2781172    .1783183
    watecom |    -.00521   .0024516    -2.13   0.036    -.0100836   -.0003364
       afri |   .1391498   .1941523     0.72   0.475    -.2468123    .5251119
       lati |   .0638322   .2140219     0.30   0.766    -.3616293    .4892936
       east |   .0259754   .2088086     0.12   0.901    -.3891224    .4410731
       sout |   .0455164    .223906     0.20   0.839    -.3995939    .4906268
      gdphf |  -.1664763   .3950662    -0.42   0.675    -.9518419    .6188894
   giniavnf |  -.0014758   .0968537    -0.02   0.988    -.1940145     .191063
   ethnannf |  -.0896777   .1670123    -0.54   0.593    -.4216872    .2423318
      _cons |   7.373304    .658773    11.19   0.000     6.063706    8.682901
------------------------------------------------------------------------------
```

Model TS with percent Muslim rather than a 0/1 variable indicating >90% Muslim

```
. regress lu5mrcom lgdph mysfx giniavni ethnl muslpct lhlxpuwd urbwdi trop20 watecom afri lati east
sout gdphf giniavnf ethnlf if ctry ~= "Singapore" & ctry ~= "Mongolia"

      Source |       SS       df       MS              Number of obs =     103
-------------+------------------------------           F( 16,    86) =   37.63
       Model |  72.0308323    16  4.50192702           Prob > F      =  0.0000
    Residual |  10.2896038    86  .119646556           R-squared     =  0.8750
-------------+------------------------------           Adj R-squared =  0.8518
       Total |  82.3204361   102  .807063099           Root MSE      =   .3459

------------------------------------------------------------------------------
    lu5mrcom |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       lgdph |  -.3868264   .0906679    -4.27   0.000    -.5670682   -.2065845
       mysfx |  -.1541946   .0338777    -4.55   0.000    -.2215412    -.086848
    giniavni |   .0140083   .0052803     2.65   0.010     .0035114    .0245053
       ethnl |   .2020987   .1614169     1.25   0.214    -.1187874    .5229847
     muslpct |   .0007505   .0016455     0.46   0.649    -.0025205    .0040216
    lhlxpuwd |  -.0744675    .068525    -1.09   0.280    -.2106908    .0617557
     urbwdi |  -.0002736   .0034617    -0.08   0.937    -.0071552     .006608
     trop20 |  -.0002334   .1135082    -0.00   0.998    -.2258803    .2254135
    watecom |  -.0053112   .0025178    -2.11   0.038    -.0103165   -.0003059
       afri |   -.013516    .18724    -0.07   0.943    -.3857369    .3587049
       lati |  -.0996006   .2139037    -0.47   0.643    -.5248272     .325626
       east |  -.1478245   .2100641    -0.70   0.484    -.5654182    .2697692
       sout |  -.0632745   .2215972    -0.29   0.776    -.5037951    .3772461
      gdphf |  -.2862189   .3947618    -0.73   0.470    -1.070979    .4985416
   giniavnf |  -.0141622   .0980757    -0.14   0.886    -.2091302    .1808058
     ethnlf |  -.1745919    .175007    -1.00   0.321    -.5224943    .1733105
      _cons |   7.555329   .5846497    12.92   0.000     6.393084    8.717574

------------------------------------------------------------------------------
```