

(R)

Statistics/Data Analysis

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Project: Thesis - Part 2

1 . **ivregress 2sls Lifeexpectancyatbirth NationalIncome GDPperCapita (kwhpercapita = Residual)**

Instrumental variables (2SLS) regression	Number of obs	=	146
	Wald chi2(3)	=	464.23
	Prob > chi2	=	0.0000
	R-squared	=	0.7634
	Root MSE	=	.02419

Lifeexpectan~h	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
kwhpercapita	.0343612	.0310016	1.11	0.268	-.0264007	.0951232
NationalIncome	.1304962	.0260942	5.00	0.000	.0793526	.1816399
GDPperCapita	-.0915458	.0386058	-2.37	0.018	-.1672117	-.0158799
_cons	1.583083	.0178272	88.80	0.000	1.548143	1.618024

Instrumented: kwhpercapita
Instruments: NationalIncome GDPperCapita Residual

2 . estat endog

Tests of endogeneity
Ho: variables are exogenous

Durbin (score) chi2(1)	=	.127513	(p = 0.7210)
Wu-Hausman F(1,141)	=	.123254	(p = 0.7261)

3 . estat firststage

First-stage regression summary statistics

Variable	R-sq.	Adjusted R-sq.	Partial R-sq.	F(1,142)	Prob > F
kwhpercapita	0.8417	0.8384	0.0579	8.73301	0.0037

Minimum eigenvalue statistic = 8.73301

Critical Values	# of endogenous regressors:	1
Ho: Instruments are weak	# of excluded instruments:	1

	5%	10%	20%	30%
2SLS relative bias	(not available)			
2SLS Size of nominal 5% Wald test	16.38	8.96	6.66	5.53
LIML Size of nominal 5% Wald test	16.38	8.96	6.66	5.53

4 . **ivregress 2sls Expectedyearsofschooling NationalIncome GDPperCapita (kwhpercapita = Residual)**

Instrumental variables (2SLS) regression	Number of obs	=	145
	Wald chi2(3)	=	312.94
	Prob > chi2	=	0.0000
	R-squared	=	0.6868
	Root MSE	=	.05477

Expectedyear~g	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
kwhpercapita	.0531675	.0722325	0.74	0.462	-.0884055	.1947406
NationalIncome	.1545424	.0610559	2.53	0.011	.034875	.2742099
GDPperCapita	-.0704628	.0960966	-0.73	0.463	-.2588086	.1178831
_cons	.6137938	.0439845	13.95	0.000	.5275858	.7000017

Instrumented: kwhpercapita
Instruments: NationalIncome GDPperCapita Residual

5 . estat endog

Tests of endogeneity
Ho: variables are exogenous

Durbin (score) chi2(1) = .024806 (p = 0.8749)
Wu-Hausman F(1,140) = .023955 (p = 0.8772)

6 . estat firststage

First-stage regression summary statistics

Variable	R-sq.	Adjusted R-sq.	Partial R-sq.	F(1,141)	Prob > F
kwhpercapita	0.8399	0.8365	0.0566	8.45928	0.0042

Minimum eigenvalue statistic = **8.45928**

Critical Values # of endogenous regressors: 1
Ho: Instruments are weak # of excluded instruments: 1

	5%	10%	20%	30%
2SLS relative bias	(not available)			
2SLS Size of nominal 5% Wald test	10%	15%	20%	25%
LIML Size of nominal 5% Wald test	16.38	8.96	6.66	5.53
	16.38	8.96	6.66	5.53

7 . ivregress 2sls Meanyearsofschooling NationalIncome GDPperCapita (kwhpercapita = Residual)

Instrumental variables (2SLS) regression Number of obs = 145
Wald chi2(3) = 350.14
Prob > chi2 = 0.0000
R-squared = 0.7240
Root MSE = .10455

Meanyearsofs~g	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
kwhpercapita	.1488715	.1378936	1.08	0.280	-.1213951 .4191381
NationalIncome	.238623	.1165573	2.05	0.041	.0101748 .4670712
GDPperCapita	-.1098591	.1834509	-0.60	0.549	-.4694162 .2496981
_cons	-.142776	.0839675	-1.70	0.089	-.3073493 .0217972

Instrumented: kwhpercapita
Instruments: NationalIncome GDPperCapita Residual

8 . estat endog

Tests of endogeneity
Ho: variables are exogenous

Durbin (score) chi2(1) = .086392 (p = 0.7688)
Wu-Hausman F(1,140) = .083463 (p = 0.7731)

9 . estat firststage

First-stage regression summary statistics

Variable	R-sq.	Adjusted R-sq.	Partial R-sq.	F(1,141)	Prob > F
kwhpercapita	0.8399	0.8365	0.0566	8.45928	0.0042

Minimum eigenvalue statistic = **8.45928**

Critical Values # of endogenous regressors: **1**
 Ho: Instruments are weak # of excluded instruments: **1**

2SLS relative bias	5%	10%	20%	30%
	(not available)			
	10%	15%	20%	25%
2SLS Size of nominal 5% Wald test	16.38	8.96	6.66	5.53
LIML Size of nominal 5% Wald test	16.38	8.96	6.66	5.53