

## APPENDIX

The following are outputs of all analyses conducted using Stata/SE 14.2 software.

### A. Normality Test Result

Shapiro-Wilk W test for normal data

Variable	Obs	W	V	z	Prob>z
kidlogearn	1,011	0.98095	12.133	6.184	0.00000
fatlogearn	1,011	0.93607	40.722	9.184	0.00000
kidage	1,011	0.98445	9.905	5.681	0.00000
fatage	1,011	0.97474	16.093	6.883	0.00000
e	1,011	0.98220	11.340	6.016	0.00000

### B. Heteroscedasticity Test Result

Ho: Constant variance

Variables: fitted values of kidlogearn

chi2(1) = 0.86  
Prob > chi2 = 0.3540

### C. Multicollinearity Test Result

Variable	VIF	1/VIF
kidage	1.01	0.987499
fatlogearn	1.01	0.989151
fatage	1.01	0.992599
Mean VIF	1.01	

### D. Endogeneity Test Result

Tests of endogeneity

Ho: variables are exogenous

Durbin (score) chi2(1) = 3.91007 (p = 0.0480)  
Wu-Hausman F(1,1008) = 3.9136 (p = 0.0482)

## E. Linear Regression Result (All)

### 1. Adjusted

Source	SS	df	MS	Number of obs	=	1,011
Model	36.4583353	5	7.29166707	F(5, 1005)	=	7.72
Residual	949.709733	1,005	.944984809	Prob > F	=	0.0000
				R-squared	=	0.0370
				Adj R-squared	=	0.0322
Total	986.168068	1,010	.976404028	Root MSE	=	.9721

logkidearn	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
logfatearn	.1655257	.0297983	5.55	0.000	.1070518 .2239997
kidage	-.0055142	.2017569	-0.03	0.978	-.4014273 .3903988
kidagesq	.0002473	.0034838	0.07	0.943	-.0065891 .0070837
fatage	.8589224	.4361052	1.97	0.049	.0031413 1.714704
fatagesq	-.0096077	.004887	-1.97	0.050	-.0191976 -.0000178
_cons	-5.374458	10.13254	-0.53	0.596	-25.25782 14.50891

### 2. Unadjusted

Source	SS	df	MS	Number of obs	=	1,010
Model	31.3868031	1	31.3868031	F(1, 1008)	=	33.20
Residual	952.904008	1,008	.945341278	Prob > F	=	0.0000
				R-squared	=	0.0319
				Adj R-squared	=	0.0309
Total	984.290811	1,009	.97551121	Root MSE	=	.97229

logkidearn	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
logfatearn	.1704059	.0295737	5.76	0.000	.1123729 .2284389
_cons	13.74353	.431248	31.87	0.000	12.89728 14.58978

## F. Linear Regression Result (Male)

### 1. Adjusted

Source	SS	df	MS	Number of obs	=	685
Model	28.6862981	5	5.73725962	F(5, 679)	=	7.13
Residual	546.235667	679	.80447079	Prob > F	=	0.0000
Total	574.921965	684	.840529188	R-squared	=	0.0499
				Adj R-squared	=	0.0429
				Root MSE	=	.89692

  

logkidearn	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
logfatearn	.1819815	.0328335	5.54	0.000	.1175142 .2464488
kidage	.0887916	.2203413	0.40	0.687	-.3438405 .5214238
kidagesq	-.001578	.0038032	-0.41	0.678	-.0090454 .0058894
fatage	.6742828	.4911812	1.37	0.170	-.2901336 1.638699
fatagesq	-.0072908	.0055054	-1.32	0.186	-.0181004 .0035188
_cons	-3.020834	11.53386	-0.26	0.793	-25.66714 19.62548

### 2. Unadjusted

Source	SS	df	MS	Number of obs	=	684
Model	23.994247	1	23.994247	F(1, 682)	=	29.83
Residual	548.613184	682	.804418158	Prob > F	=	0.0000
Total	572.607431	683	.838371056	R-squared	=	0.0419
				Adj R-squared	=	0.0405
				Root MSE	=	.89689

  

logkidearn	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
logfatearn	.177882	.0325701	5.46	0.000	.1139322 .2418317
_cons	13.7953	.4733694	29.14	0.000	12.86586 14.72473

## G. Linear Regression Result (Female)

### 1. Adjusted

Source	SS	df	MS	Number of obs	=	326
Model	21.2850044	5	4.25700087	F(5, 320)	=	3.99
Residual	341.654964	320	1.06767176	Prob > F	=	0.0016
				R-squared	=	0.0586
				Adj R-squared	=	0.0439
Total	362.939968	325	1.11673836	Root MSE	=	1.0333

logkidearn	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
logfatearn	.1907277	.0586033	3.25	0.001	.0754312	.3060241
kidage	.3212965	.4138008	0.78	0.438	-.4928172	1.13541
kidagesq	-.0052327	.0071539	-0.73	0.465	-.0193074	.008842
fatage	1.151285	.8255422	1.39	0.164	-.4728908	2.775461
fatagesq	-.013407	.0092432	-1.45	0.148	-.0315921	.004778
_cons	-16.37335	18.70064	-0.88	0.382	-53.16509	20.41839

### 2. Unadjusted

Source	SS	df	MS	Number of obs	=	326
Model	13.4328615	1	13.4328615	F(1, 324)	=	12.45
Residual	349.507107	324	1.07872564	Prob > F	=	0.0005
				R-squared	=	0.0370
				Adj R-squared	=	0.0340
Total	362.939968	325	1.11673836	Root MSE	=	1.0386

logkidearn	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
logfatearn	.2057439	.058304	3.53	0.000	.0910417	.3204461
_cons	12.88983	.8560764	15.06	0.000	11.20566	14.574

## H. Linear Regression Result (Urban)

### 1. Adjusted

Source	SS	df	MS	Number of obs	=	463
Model	21.8535653	5	4.37071306	F(5, 457)	=	5.40
Residual	370.054497	457	.809747258	Prob > F	=	0.0001
Total	391.908062	462	.848285848	R-squared	=	0.0558
				Adj R-squared	=	0.0454
				Root MSE	=	.89986

  

logkidearn	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
logfatearn	.2011068	.0429943	4.68	0.000	.1166158 .2855978
kidage	.0421865	.3095165	0.14	0.892	-.5660655 .6504384
kidagesq	-.0004564	.0053093	-0.09	0.932	-.01089 .0099772
fatage	.0485469	.6105809	0.08	0.937	-1.151348 1.248441
fatagesq	-.0003911	.0068939	-0.06	0.955	-.0139388 .0131566
_cons	11.10584	13.79651	0.80	0.421	-16.00663 38.2183

### 2. Unadjusted

Source	SS	df	MS	Number of obs	=	463
Model	20.3474805	1	20.3474805	F(1, 461)	=	25.25
Residual	371.560581	461	.805988246	Prob > F	=	0.0000
Total	391.908062	462	.848285848	R-squared	=	0.0519
				Adj R-squared	=	0.0499
				Root MSE	=	.89777

  

logkidearn	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
logfatearn	.2111607	.0420264	5.02	0.000	.1285737 .2937478
_cons	13.17561	.6259352	21.05	0.000	11.94557 14.40565

## I. Linear Regression Result (Rural)

### 1. Adjusted

Source	SS	df	MS	Number of obs	=	548
Model	13.8748046	5	2.77496092	F(5, 542)	=	2.62
Residual	573.026448	542	1.05724437	Prob > F	=	0.0234
				R-squared	=	0.0236
				Adj R-squared	=	0.0146
Total	586.901252	547	1.07294562	Root MSE	=	1.0282

logkidearn	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
logfatearn	.10886	.0445974	2.44	0.015	.0212552 .1964649
kidage	.0431899	.2716413	0.16	0.874	-.4904089 .5767886
kidagesq	-.0007315	.0047155	-0.16	0.877	-.0099945 .0085314
fatage	1.553523	.659194	2.36	0.019	.2586346 2.848411
fatagesq	-.0173792	.0073379	-2.37	0.018	-.0317933 -.002965
_cons	-20.65444	15.48109	-1.33	0.183	-51.06473 9.755849

### 2. Unadjusted

Source	SS	df	MS	Number of obs	=	547
Model	7.39676451	1	7.39676451	F(1, 545)	=	6.98
Residual	577.834676	545	1.06024711	Prob > F	=	0.0085
				R-squared	=	0.0126
				Adj R-squared	=	0.0108
Total	585.23144	546	1.07185245	Root MSE	=	1.0297

logkidearn	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
logfatearn	.1170865	.0443292	2.64	0.008	.0300096 .2041634
_cons	14.47292	.634484	22.81	0.000	13.22658 15.71925

## J. Transition Probability Result

prank	prank				Total
	1	2	3	4	
1	28.68	32.35	24.26	14.71	100.00
2	38.35	24.81	22.56	14.29	100.00
3	16.54	24.06	30.83	28.57	100.00
4	17.16	18.66	21.64	42.54	100.00
Total	25.19	25.00	24.81	25.00	100.00

## K. Two-stages Least Square Results

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Instrumental variables (2SLS) regression      Number of obs   =    1,011
                                              Wald chi2(1)    =    36.21
                                              Prob > chi2     =    0.0000
                                              R-squared      =    0.0926
                                              Root MSE      =    .9408

```

logkidearn	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
kidedu5	.1221073	.0202928	6.02	0.000	.0823341	.1618805
_cons	14.90395	.2208364	67.49	0.000	14.47112	15.33678

```

Instrumented:  kidedu5
Instruments:   logfatearn

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