Schooling Opportunities and Intergenerational Educational Mobility in Turkey. An IV Estimation Using Census Data

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Online Appendix

Table A1. Marginal effects of the probability of having completed at least lower secondary school – all children, sample with basic restrictions, continuous parental education

	All			Boys			Girls		
	1990	2000	1990	1990	2000	1990	1990	2000	2000
Gender (female=1)	-0.057*** (0.021)	-0.069*** (0.019)	-0.022 (0.032)	-0.026 (0.031)					
Mother Sch. Years	0.036*** (0.001)	0.027*** (0.001)	0.035*** (0.001)	0.043*** (0.001)	0.023*** (0.001)	0.027*** (0.001)	0.034*** (0.001)	0.038*** (0.001)	0.030*** (0.001)
Father Sch. Years	0.041*** (0.001)	0.030*** (0.001)	0.030*** (0.001)	0.043*** (0.001)	0.027*** (0.001)	0.027*** (0.001)	0.038*** (0.001)	0.031*** (0.001)	0.031*** (0.001)
Sibling 1 girl	-0.022*** (0.003)	-0.021*** (0.003)	-0.031*** (0.005)	-0.030*** (0.006)	-0.020*** (0.006)	-0.031*** (0.005)	-0.020*** (0.004)	-0.020*** (0.004)	-0.026*** (0.008)
Sibling girls>=2	-0.070*** (0.005)	-0.072*** (0.005)	-0.066*** (0.008)	-0.068*** (0.009)	-0.070*** (0.007)	-0.074*** (0.010)	-0.071*** (0.006)	-0.072*** (0.006)	-0.060*** (0.010)
Sibling 1 boy	-0.050*** (0.005)	-0.049*** (0.005)	-0.042*** (0.005)	-0.041*** (0.005)	-0.047*** (0.005)	-0.045*** (0.005)	-0.047*** (0.006)	-0.050*** (0.007)	-0.037*** (0.007)
Sibling boys>=2	-0.134*** (0.006)	-0.130*** (0.007)	-0.118*** (0.011)	-0.117*** (0.012)	-0.122*** (0.010)	-0.117*** (0.011)	-0.118*** (0.006)	-0.120*** (0.007)	-0.111*** (0.013)
District	0.013 (0.013)	0.012 (0.012)	0.029** (0.012)	0.031*** (0.011)	0.063*** (0.012)	0.059*** (0.011)	0.017 (0.016)	0.020 (0.015)	0.028** (0.012)
Village	-0.207*** (0.015)	-0.184*** (0.014)	-0.126*** (0.013)	-0.111*** (0.012)	-0.117*** (0.015)	-0.067*** (0.012)	-0.222*** (0.015)	-0.198*** (0.015)	-0.161*** (0.014)
House Ownership	-0.038*** (0.007)	-0.024*** (0.006)	-0.020*** (0.006)	-0.018*** (0.005)	-0.006 (0.008)	0.006 (0.005)	-0.052*** (0.008)	-0.039*** (0.008)	-0.045*** (0.008)
Born local	-0.026* (0.015)	0.001 (0.015)	0.032* (0.018)	0.055*** (0.018)	-0.006 (0.011)	0.023* (0.012)	-0.019 (0.017)	0.009 (0.017)	0.042* (0.022)
Emp. prospects	0.003*** (0.001)	0.003*** (0.001)	0.004*** (0.001)	0.004*** (0.001)	0.005*** (0.001)	0.005*** (0.001)	0.011*** (0.002)	0.010*** (0.002)	0.007*** (0.001)
Observations	71,069	85,434	85,434	85,434	44,173	44,173	35,355	35,355	41,261
Pseudo R-squared	0.186	0.211	0.113	0.122	0.134	0.0779	0.251	0.275	0.153

Notes: The omitted categories are: native-born child residing in city centre with no male or female siblings. Adana is the reference province. Provincial fixed effects (67) are included. Province level clustered standard errors in parentheses *** p<0.01, ** p<0.05, * p<0.1.

Table A2. Marginal effects of the probability of having completed at least lower secondary school – all children, sample with basic restrictions, categorical parental education

	All			Boys			Girls		
	1990	2000		1990	2000		1990	2000	
Gender (female=1)	-0.060*** (0.019)	-0.019 (0.032)	-0.024 (0.032)						
<i>Mother</i>									
No schooling	-0.467*** (0.015)	-0.305*** (0.013)	-0.421*** (0.019)	-0.248*** (0.014)	-0.309*** (0.012)	-0.484*** (0.013)	-0.350*** (0.020)		
5 Years Primary	-0.302*** (0.014)	-0.149*** (0.012)	-0.259*** (0.017)	-0.113*** (0.012)	-0.143*** (0.009)	-0.321*** (0.014)	-0.174*** (0.019)		
Upper Secondary	0.055*** (0.016)	0.002 (0.009)	0.071*** (0.019)	0.003 (0.015)	0.029*** (0.009)	0.022 (0.025)	-0.001 (0.015)		
Post-secondary	0.109*** (0.018)	0.007 (0.010)	0.103*** (0.031)	-0.003 (0.018)	0.062*** (0.009)	0.111*** (0.031)	0.007 (0.016)		
<i>Father</i>									
No schooling	-0.418*** (0.012)	-0.306*** (0.008)	-0.437*** (0.011)	-0.309*** (0.012)	-0.384*** (0.014)	-0.484*** (0.013)	-0.295*** (0.013)		
5 Years Primary	-0.260*** (0.011)	-0.153*** (0.007)	-0.253*** (0.011)	-0.143*** (0.009)	-0.252*** (0.013)	-0.174*** (0.010)	-0.159*** (0.010)		
Upper Secondary	0.121*** (0.013)	0.053*** (0.006)	0.100*** (0.015)	0.029*** (0.009)	0.132*** (0.017)	0.132*** (0.011)	0.075*** (0.011)		
Post-secondary	0.201*** (0.016)	0.102*** (0.008)	0.166*** (0.023)	0.062*** (0.009)	0.219*** (0.014)	0.219*** (0.012)	0.131*** (0.012)		
<i>Sibling Effects</i>									
Sibling 1 girl	-0.021*** (0.003)	-0.020*** (0.003)	-0.031*** (0.006)	-0.019*** (0.006)	-0.033*** (0.005)	-0.019*** (0.005)	-0.027*** (0.008)		
Sibling girls>=2	-0.067*** (0.005)	-0.069*** (0.008)	-0.069*** (0.009)	-0.067*** (0.007)	-0.074*** (0.010)	-0.069*** (0.006)	-0.061*** (0.008)		
Sibling 1 boy	-0.047*** (0.004)	-0.046*** (0.005)	-0.043*** (0.005)	-0.049*** (0.008)	-0.047*** (0.005)	-0.044*** (0.007)	-0.040*** (0.007)		
Sibling boys>=2	-0.130*** (0.006)	-0.126*** (0.007)	-0.118*** (0.012)	-0.122*** (0.011)	-0.118*** (0.010)	-0.114*** (0.006)	-0.112*** (0.013)		
District	0.013 (0.013)	0.011 (0.011)	0.029*** (0.011)	0.061*** (0.012)	0.057*** (0.011)	0.016 (0.016)	0.029*** (0.012)		
Village	-0.205*** (0.013)	-0.180*** (0.012)	-0.108*** (0.011)	-0.114*** (0.012)	-0.051*** (0.011)	-0.220*** (0.015)	-0.159*** (0.012)		

(continued)

Table A2. (Continued)

	All			Boys			Girls			
	1990	2000	1990	2000	1990	2000	1990	2000	2000	
House Ownership	(0.015) -0.037*** (0.007)	(0.014) -0.020*** (0.006)	(0.013) -0.018*** (0.006)	(0.012) -0.016*** (0.005)	(0.015) -0.003 (0.008)	(0.012) 0.007 (0.006)	(0.010) 0.009* (0.005)	(0.015) -0.034*** (0.008)	(0.014) -0.043*** (0.008)	(0.013) -0.040*** (0.008)
Born local	-0.023 (0.015)	0.006 (0.014)	0.030 (0.018)	0.052*** (0.018)	-0.002 (0.010)	0.021* (0.012)	0.039*** (0.013)	-0.016 (0.017)	0.039* (0.022)	0.065*** (0.020)
Emp. prospects	0.003*** (0.001)	0.002*** (0.001)	0.004*** (0.001)	0.004*** (0.001)	0.005*** (0.001)	0.006*** (0.001)	0.005*** (0.001)	0.010*** (0.001)	0.008*** (0.001)	0.008*** (0.001)
Observations	71,069	71,069	85,434	85,434	35,714	44,173	44,173	35,355	41,261	41,261
Pseudo R-squared	0.189	0.214	0.115	0.124	0.136	0.0790	0.0899	0.254	0.155	0.162

Notes: The omitted categories are: native-born child residing in city centre with no male or female siblings. Adana is the reference province. Provincial fixed effects (67) are included. Province level clustered standard errors in parentheses. *** p<0.01, ** p<0.05, * p<0.1.

Table A3. Marginal effects of the probability of having completed at least lower secondary school – all children, restricted sample, categorical parental education

	1990		2000		1990		2000	
	Probit	2SRI	Probit	2SRI	Probit	2SRI	Probit	2SRI
Gender (female=1)	-0.074*** (0.008)	-0.076*** (0.007)	-0.053*** (0.009)	-0.049*** (0.010)	-0.080*** (0.007)	-0.073*** (0.008)	-0.053*** (0.009)	-0.037*** (0.010)
<i>Mother</i>								
No schooling	-0.462*** (0.019)	-0.492*** (0.034)	-0.304*** (0.012)	-0.276*** (0.028)				
5 Years Primary	-0.314*** (0.019)	-0.325*** (0.021)	-0.154*** (0.011)	-0.143*** (0.015)				
High School	0.042 (0.026)	0.051* (0.026)	-0.008 (0.015)	-0.019 (0.017)				
Post-secondary	0.102*** (0.030)	0.119*** (0.032)	0.002 (0.020)	-0.024 (0.031)				
<i>Father</i>								
No schooling					-0.386*** (0.011)	-0.314*** (0.023)	-0.305*** (0.008)	-0.174*** (0.034)
5 Years Primary					-0.242*** (0.010)	-0.206*** (0.014)	-0.162*** (0.007)	-0.108*** (0.015)
High School					0.130*** (0.016)	0.100*** (0.016)	0.045*** (0.008)	-0.005 (0.013)
Post-secondary					0.224*** (0.016)	0.163*** (0.026)	0.097*** (0.011)	-0.018 (0.031)
<i>Siblings</i>								
Sibling 1 girl	-0.019*** (0.005)	-0.019*** (0.005)	-0.025*** (0.005)	-0.026*** (0.005)	-0.021*** (0.005)	-0.022*** (0.005)	-0.026*** (0.005)	-0.028*** (0.005)
Sibling girls>=2	-0.058*** (0.005)	-0.056*** (0.005)	-0.054*** (0.005)	-0.057*** (0.006)	-0.061*** (0.005)	-0.064*** (0.005)	-0.052*** (0.005)	-0.061*** (0.005)
Sibling 1 boy	-0.043*** (0.005)	-0.042*** (0.005)	-0.035*** (0.005)	-0.036*** (0.005)	-0.042*** (0.005)	-0.044*** (0.005)	-0.033*** (0.005)	-0.039*** (0.005)
Sibling boys>=2	-0.114*** (0.005)	-0.112*** (0.005)	-0.090*** (0.006)	-0.093*** (0.006)	-0.110*** (0.005)	-0.115*** (0.005)	-0.089*** (0.005)	-0.104*** (0.006)
District	0.019*** (0.007)	0.019*** (0.007)	0.025*** (0.006)	0.025*** (0.007)	0.018*** (0.008)	0.018*** (0.007)	0.025*** (0.006)	0.023*** (0.006)
Village	-0.213*** (0.006)	-0.209*** (0.007)	-0.150*** (0.006)	-0.154*** (0.006)	-0.182*** (0.006)	-0.195*** (0.007)	-0.129*** (0.006)	-0.155*** (0.008)

(continued)

Table A3. (Continued)

	1990		2000		1990		2000	
	Probit	2SRI	Probit	2SRI	Probit	2SRI	Probit	2SRI
House Ownership	-0.033*** (0.006)	-0.032*** (0.006)	-0.033*** (0.006)	-0.034*** (0.006)	-0.025*** (0.006)	-0.029*** (0.006)	-0.030*** (0.006)	-0.037*** (0.006)
Born local	-0.006 (0.009)	-0.008 (0.008)	0.042*** (0.009)	0.043*** (0.008)	0.020*** (0.008)	0.016** (0.008)	0.064*** (0.008)	0.054*** (0.008)
Emp. prospects	0.004*** (0.000)	0.004*** (0.000)	0.004*** (0.000)	0.004*** (0.000)	0.003*** (0.000)	0.004*** (0.000)	0.003*** (0.000)	0.004*** (0.000)
Res. Regional		-0.004 (0.003)		0.004 (0.003)		0.009*** (0.003)		0.016*** (0.004)
Observations	52,774	52,774	57,768	57,768	52,089	52,089	58,260	58,260
Pseudo R-squared	0.187	0.187	0.122	0.122	0.210	0.210	0.132	0.132

Notes: The omitted categories are: native-born child residing in city centre with no male or female siblings. Adana is the reference province. Provincial fixed effects (67) are included. The restricted sample includes children having a native born or recent migrant parent. Bootstrapped standard errors (based on 200 replications) in parentheses. *** p<0.01, ** p<0.05, * p<0.1.

Table A4. Marginal effects of the probability of having completed at least lower secondary school – boys, restricted sample, categorical parental education

	1990		2000		1990		2000	
	Probit	2SRI	Probit	2SRI	Probit	2SRI	Probit	2SRI
<i>Mother</i>								
No schooling	-0.412*** (0.025)	-0.370*** (0.044)	-0.239*** (0.015)	-0.171*** (0.036)				
5 Years Primary	-0.265*** (0.025)	-0.251*** (0.027)	-0.109*** (0.015)	-0.085*** (0.019)				
High School	0.068** (0.032)	0.057 (0.041)	0.004 (0.021)	-0.022 (0.023)				
Post-secondary	0.122*** (0.038)	0.100* (0.053)	0.008 (0.027)	-0.055 (0.041)				
<i>Father</i>								
No schooling					-0.436*** (0.015)	-0.351*** (0.032)	-0.309*** (0.012)	-0.137*** (0.052)
5 Years Primary					-0.256*** (0.014)	-0.218*** (0.019)	-0.152*** (0.009)	-0.086*** (0.022)
High School					0.088*** (0.021)	0.058** (0.024)	0.016 (0.012)	-0.046** (0.022)
Post-secondary					0.172*** (0.020)	0.113*** (0.034)	0.055*** (0.015)	-0.092** (0.045)
<i>Siblings</i>								
Sibling 1 girl	-0.019*** (0.007)	-0.019*** (0.007)	-0.034*** (0.007)	-0.036*** (0.007)	-0.020** (0.008)	-0.021*** (0.008)	-0.034*** (0.007)	-0.038*** (0.007)
Sibling girls>=2	-0.059*** (0.007)	-0.062*** (0.007)	-0.065*** (0.007)	-0.070*** (0.007)	-0.064*** (0.008)	-0.068*** (0.007)	-0.063*** (0.008)	-0.074*** (0.008)
Sibling 1 boy	-0.046*** (0.008)	-0.047*** (0.008)	-0.044*** (0.007)	-0.047*** (0.007)	-0.041*** (0.008)	-0.044*** (0.008)	-0.042*** (0.007)	-0.050*** (0.007)
Sibling boys>=2	-0.124*** (0.008)	-0.128*** (0.009)	-0.098*** (0.007)	-0.106*** (0.009)	-0.115*** (0.008)	-0.123*** (0.008)	-0.098*** (0.008)	-0.117*** (0.008)
District	0.075*** (0.010)	0.075*** (0.010)	0.058*** (0.008)	0.059*** (0.009)	0.064*** (0.010)	0.067*** (0.010)	0.055*** (0.008)	0.057*** (0.009)
Village	-0.152*** (0.010)	-0.156*** (0.010)	-0.086*** (0.008)	-0.093*** (0.009)	-0.123*** (0.009)	-0.136*** (0.010)	-0.066*** (0.009)	-0.092*** (0.012)
House Ownership	-0.020** (0.009)	-0.023** (0.010)	-0.006 (0.008)	-0.009 (0.010)	-0.011 (0.009)	-0.016* (0.010)	-0.005 (0.008)	-0.012 (0.009)

(continued)

Table A4. (Continued)

	1990		2000		1990		2000	
	Probit	2SRI	Probit	2SRI	Probit	2SRI	Probit	2SRI
Born local	-0.009 (0.012)	-0.007 (0.013)	0.046*** (0.011)	0.049*** (0.012)	0.005 (0.012)	0.003 (0.011)	0.057*** (0.013)	0.046*** (0.012)
Emp. prospects	0.006*** (0.001)	0.007*** (0.001)	0.005*** (0.000)	0.006*** (0.001)	0.006*** (0.001)	0.006*** (0.001)	0.005*** (0.001)	0.006*** (0.001)
Res. Regional		0.005 (0.005)		0.009** (0.004)		0.011*** (0.003)		0.021*** (0.006)
Observations	26,288	26,288	29,671	29,671	25,938	25,938	29,968	29,968
Pseudo R-squared	0.130	0.130	0.0801	0.0802	0.155	0.155	0.0920	0.0924

Notes: The omitted categories are: native-born child residing in city centre with no male or female siblings. Adana is the reference province. Provincial fixed effects (67) are included. The restricted sample includes children having a native born or recent migrant parent. Bootstrapped standard errors (based on 200 replications) in parentheses. *** p<0.01, ** p<0.05, * p<0.1.

Table A5. Marginal effects of the probability of having completed at least lower secondary school – girls, restricted sample, categorical parental education

	1990		2000		1990		2000	
	Probit	2SRI	Probit	2SRI	Probit	2SRI	Probit	2SRI
<i>Mother</i>								
No schooling	-0.481*** (0.027)	-0.549*** (0.045)	-0.360*** (0.016)	-0.333*** (0.036)				
5 Years Primary	-0.338*** (0.027)	-0.369*** (0.029)	-0.191*** (0.015)	-0.180*** (0.020)				
High School	-0.003 (0.041)	0.024 (0.039)	-0.028 (0.020)	-0.039 (0.026)				
Post-secondary	0.057 (0.055)	0.108** (0.051)	-0.023 (0.035)	-0.050 (0.048)				
<i>Father</i>								
No schooling					-0.325*** (0.013)	-0.261*** (0.029)	-0.293*** (0.011)	-0.176*** (0.041)
5 Years Primary					-0.215*** (0.013)	-0.179*** (0.018)	-0.167*** (0.009)	-0.115*** (0.020)
High School					0.157*** (0.021)	0.121*** (0.025)	0.073*** (0.013)	0.023 (0.018)
Post-secondary					0.257*** (0.025)	0.182*** (0.039)	0.132*** (0.017)	0.019 (0.040)
<i>Siblings</i>								
sibling 1 girl	-0.017*** (0.006)	-0.015** (0.006)	-0.015** (0.007)	-0.016*** (0.006)	-0.018*** (0.006)	-0.019*** (0.006)	-0.015** (0.006)	-0.017*** (0.007)
sibling girls>=2	-0.054*** (0.005)	-0.051*** (0.006)	-0.043*** (0.006)	-0.046*** (0.007)	-0.056*** (0.006)	-0.057*** (0.006)	-0.041*** (0.006)	-0.049*** (0.007)
sibling 1 boy	-0.045*** (0.007)	-0.044*** (0.007)	-0.027*** (0.007)	-0.028*** (0.007)	-0.048*** (0.008)	-0.048*** (0.007)	-0.023*** (0.007)	-0.028*** (0.008)
sibling boys>=2	-0.105*** (0.007)	-0.100*** (0.007)	-0.077*** (0.008)	-0.081*** (0.009)	-0.105*** (0.007)	-0.108*** (0.006)	-0.076*** (0.008)	-0.089*** (0.009)
District	0.022** (0.009)	0.022** (0.011)	0.029*** (0.009)	0.029*** (0.010)	0.028*** (0.011)	0.029*** (0.010)	0.032*** (0.010)	0.031*** (0.010)
Village	-0.220*** (0.008)	-0.213*** (0.009)	-0.181*** (0.008)	-0.185*** (0.009)	-0.189*** (0.008)	-0.200*** (0.009)	-0.160*** (0.010)	-0.185*** (0.012)
House Ownership	-0.042*** (0.008)	-0.039*** (0.008)	-0.056*** (0.008)	-0.057*** (0.008)	-0.037*** (0.008)	-0.041*** (0.008)	-0.052*** (0.008)	-0.059*** (0.009)

(continued)

Table A5. (Continued)

	1990		2000		1990		2000	
	Probit	2SRI	Probit	2SRI	Probit	2SRI	Probit	2SRI
Born local	-0.003 (0.010)	-0.006 (0.010)	0.033*** (0.012)	0.033*** (0.012)	0.032*** (0.010)	0.027*** (0.009)	0.064*** (0.011)	0.055*** (0.014)
Emp. prospects	0.012*** (0.001)	0.011*** (0.001)	0.008*** (0.001)	0.009*** (0.001)	0.012*** (0.001)	0.013*** (0.001)	0.009*** (0.001)	0.011*** (0.001)
Res. Regional		-0.007* (0.004)		0.003 (0.004)		0.007** (0.003)		0.015*** (0.005)
Observations								
Pseudo R-squared	0.247	0.247	0.163	0.164	0.269	0.269	0.172	0.172

Notes: The omitted categories are: native-born child residing in city centre with no male or female siblings. Adana is the reference province. Provincial fixed effects (67) are included. The restricted sample includes children having a native born or recent migrant parent. Bootstrapped standard errors (based on 200 replications) in parentheses. *** p<0.01, ** p<0.05, * p<0.1.