A   Appendix

A.1   Additional tables

Table A: Characteristics of Roma versus Non-Roma

Demographic characteristics	Roma	Non-Roma
Household size	5.60	3.50
Number of children younger than 18 (in household)	2.40	0.86
Age (average)	24.75	35.65
Population younger than 18	0.43	0.25
Employment rate* (males)	0.57	0.56
Employment rate* (females)	0.11	0.40
Individuals below the poverty line*	0.46	0.07
Education		
Children between 6 and 15 not enrolled in school	0.11	0.01
Unfinished primary school	0.29	0.04

Source: Serbia - MICS 2010, except * source: Serbia - LSMS 2007

Table B: Households' Characteristics - Comparison

Variable	Our data	MICS 2010	
	Roma	Roma	Non-Roma
	(1)	(2)	(3)
total fertility rate	2.34	2.7	1.7
Households' characteristics			
age	32.51	28.12	31.84
	(5.66)	(5.71)	(4.56)
age at first birth	20.15	20.12	26.10
	(4.07)	(3.82)	(4.42)
mother's years of schooling	5.36	7.46	12.87
	(3.14)	(2.47)	(2.16)
number of children below 6	0.78	1.10	0.60
	(0.81)	(0.96)	(0.75)
number of children 6 to 14 years	2.16	0.98	0.37
	(0.93)	(1.13)	(0.68)
number of adults	2.24	3.45	2.98
	(.82)	(1.47)	(1.23)
number of adults older than 65	0.04	0.10	0.39
	(0.21)	(0.36)	(0.65)
born in Serbia* (=1)	0.84	0.90	0.91
Obs.	274	1711	6392

Source: Own data and MICS, except * Serbia - LSMS 2007. Standard deviations reported in parenthesis, except for total fertility rate that has only one observation by sample at hand.

Table C: Number of children - POISSON

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
			All columns are estimated using a Poisson model				
level of segregation - only roma (baseline)							
mostly roma	-0.101*	-0.083***	-0.095**	-0.099	-0.104*	-0.079*	-0.057**
	(0.054)	(0.032)	(0.037)	(0.064)	(0.055)	(0.047)	(0.027)
few roma	-0.249***	-0.180***	-0.254***	-0.248***	-0.257***	-0.459*	-0.137***
	(0.057)	(0.047)	(0.047)	(0.062)	(0.059)	(0.092)	(0.046)
literacy		-0.043					-0.041
		(0.057)					(0.055)
mother's income		-0.010***					-0.008***
		(0.001)					(0.002)
father's income		0.003**					0.003**
		(0.001)					(0.001)
household wealth		-0.063***					-0.056***
		(0.016)					(0.017)
source of income - formal sector job (baseline)							
social benefit		0.062					0.090
		(0.049)					(0.062)
informal sector job		0.096*					0.088
		(0.050)					(0.054)
expected return to education			-0.104***				-0.083***
			(0.023)				(0.021)
number of adults				0.003			0.043
				(0.044)			(0.040)
urban					0.021		-0.013
					(0.048)		(0.029)
muslim						0.052	-0.004
						(0.062)	(0.063)
only serbian names						-0.232***	-0.144
						(0.077)	(0.091)
Mother's age and age squared	x	x	x	x	x	x	x
Obs.	272	271	272	272	272	272	271

Robust standard errors clustered at the settlement level with Moulton confidence intervals in parentheses: * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$. The omitted category is *only Roma* settlements.

Table D: Number of children - OLS
sample of women who always reside in the same settlement

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
			All columns are estimated using OLS				
level of segregation - only roma (baseline)							
mostly roma	-0.369*	-0.360**	-0.417**	-0.355*	-0.361	-0.294**	-0.289**
	(0.184)	(0.161)	(0.177)	(0.197)	(0.231)	(0.131)	(0.111)
few roma	-0.841***	-0.691***	-0.894***	-0.831***	-0.827***	-0.454	-0.433*
	(0.176)	(0.147)	(0.217)	(0.173)	(0.188)	(0.289)	(0.208)
literacy		-0.173					-0.211
		(0.264)					(0.267)
mother's income		-0.023***					-0.011
		(0.006)					(0.007)
father's income		0.010**					0.007*
		(0.004)					(0.004)
household wealth		-0.187***					-0.130***
		(0.038)					(0.041)
source income - formal sector job (baseline)							
social benefit		0.192					0.250
		(0.156)					(0.202)
informal sector job		0.285					0.276
		(0.177)					(0.165)
expected returns to education			-0.330***				-0.350***
			(0.069)				(0.079)
number of adults				0.028			0.091
				(0.143)			(0.127)
urban					-0.032		-0.178
					(0.220)		(0.108)
muslim						0.493**	0.394
						(0.211)	(0.257)
only serbian names						-0.545*	-0.324
						(0.264)	(0.361)
Mother's age and age squared	x	x	x	x	x	x	x
Obs.	210	209	210	210	210	210	209
r2	0.077	0.209	0.105	0.078	0.078	0.224	0.305

Robust standard errors clustered at the settlement level with Moulton confidence intervals in parentheses: * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$. The omitted category is *only Roma* settlements.

Table E: Number of children: Alternative measures of residential segregation

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
			All columns are estimated using OLS				
mostly roma street	-0.593***	-0.452***	-0.505***	-0.589**	-0.592**	-0.481**	-0.281*
	(0.186)	(0.129)	(0.128)	(0.216)	(0.197)	(0.181)	(0.139)
few roma street	-0.963***	-0.628***	-0.865***	-0.961***	-0.962***	-0.723***	-0.420**
	(0.231)	(0.192)	(0.189)	(0.245)	(0.235)	(0.228)	(0.175)
share only roma	0.010***	0.008***	0.009**	0.010**	0.011***	0.007**	0.004
	(0.003)	(0.002)	(0.003)	(0.003)	(0.003)	(0.003)	(0.002)
Mother's age and age squared	x	x	x	x	x	x	x
Opportunity cost of time ch.		x					x
Expected return to education			x				x
Number of adults				x			x
Urban					x		x
Cultural ch.						x	x
Obs.	272	271	272	272	272	272	271

Robust standard errors clustered at the settlement level with Moulton confidence intervals in parentheses: * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$. The omitted category is *only Roma* street.

Table F: Birth Spacing - Alternative measure of residential segregation

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	All columns are estimated using a Cox proportional hazard model						
mostly roma street	-0.263**	-0.225**	-0.246**	-0.243*	-0.267**	-0.207*	-0.177
	(0.115)	(0.106)	(0.098)	(0.134)	(0.117)	(0.123)	(0.142)
few roma street	-0.468***	-0.371***	-0.464***	-0.459***	-0.471***	-0.355**	-0.292**
	(0.138)	(0.108)	(0.137)	(0.149)	(0.137)	(0.139)	(0.124)
share onlyroma	0.005**	0.004**	0.005**	0.005*	0.005**	0.004*	0.003
	(0.002)	(0.002)	(0.002)	(0.003)	(0.002)	(0.002)	(0.003)
Mother's age and age squared	x	x	x	x	x	x	x
Opportunity cost of time ch.		x					x
Expected return to education			x				x
Number of adults				x			x
Urban					x		x
Cultural ch.						x	x
Obs.	881	879	864	881	881	881	879

Robust standard errors clustered at the settlement level with Moulton confidence intervals in parentheses: * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$. The omitted category is *only Roma* street.

Table G: Birth spacing - gender differences using previously born children - Serbs

	(1) COX	(2) COX	(3) COX
average number of children: 1.73 (0.737)			
male	-0.100***	-0.111**	-0.132***
	(0.042)	(0.043)	(0.047)
age mother		0.057	0.170**
		(0.061)	(0.071)
age mother sq		-0.002**	-0.004***
		(0.001)	(0.001)
Obs.	4701	4701	4701

Robust standard errors clustered at the district level in parentheses: * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$. In column (1) no additional controls are added; in column (2) we only control for mother's age and age squared; in column (3) we also control for the ranking among children, mother's level of education, wealth and district fixed effects. Source: MICS 2010.

Table H: Gender of the last born child

		Our data			MICS 2010	
	(1) All	(2) Only Roma	(3) Mostly Roma	(4) Few Roma	(5) Roma	(6) Non-Roma
Boy(=1)	0.596**	0.585	0.555	0.778***	0.574**	0.539**
	(.492)	(.499)	(.499)	(.424)	(.496)	(.499)
Obs.	178	41	110	27	204	686

The sample is composed of women with at least one child, who have not had a child in the past five years.

Standard deviations reported in parentheses. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table I: Birth Spacing - sample of women aged 33 or less - excluding suspected stopping behavior

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	All columns are estimated using a Cox proportional hazard model						
previously born: female - level of segregation: only roma (baseline)							
female - mostly roma	0.088	0.082	0.058	0.093	0.072	0.107	0.078
	(0.152)	(0.121)	(0.146)	(0.168)	(0.162)	(0.154)	(0.150)
female - few roma	-0.211	-0.220**	-0.260**	-0.205	-0.223*	-0.235	-0.257*
	(0.131)	(0.100)	(0.117)	(0.153)	(0.133)	(0.149)	(0.142)
male - only roma	-0.056	-0.091*	-0.128***	-0.054	-0.061	-0.057	-0.143***
	(0.045)	(0.053)	(0.038)	(0.039)	(0.041)	(0.045)	(0.042)
male - mostly roma	-0.277***	-0.244***	-0.212**	-0.280***	-0.269**	-0.272**	-0.206**
	(0.101)	(0.090)	(0.103)	(0.100)	(0.106)	(0.112)	(0.099)
male - few roma	-0.326***	-0.235**	-0.307**	-0.327***	-0.316***	-0.294**	-0.222
	(0.113)	(0.117)	(0.156)	(0.114)	(0.111)	(0.141)	(0.184)
Mother's age and age squared	x	x	x	x	x	x	x
Opportunity cost of time ch.		x					x
Expected return to education			x				x
Number of adults				x			x
Urban					x		x
Cultural ch.						x	x
Obs.	669	668	657	669	669	669	656

The sample is composed of all censored inter-birth spells and uncensored post-birth spells of less than 5 years.
Robust standard errors clustered at the settlement level with Moulton confidence intervals in parentheses: * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.
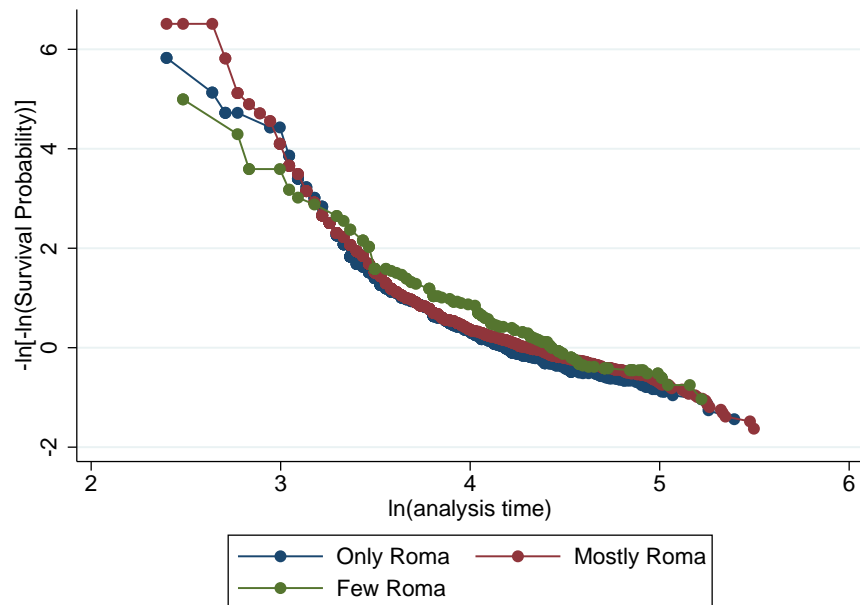
A.2 Additional figures

Figure A: Test of the proportional hazard assumption

Figure B: Sex ratio by upper limit on mother's age