

Populated pre-analysis plan for "Effects of speed-schools in Niger"

Anne Kielland¹, Andreas Kotsadam², and Jing Liu¹

¹FAFO

²Ragnar Frisch Centre for Economic Research

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Abstract

This document presents all main results and most secondary and exploratory analyses as specified in the pre-analysis plan. See the preplan for how variables are coded.

1 Effects on schooling and learning

In Table 1 we present our main outcome variable for schooling and learning outcomes: Starting lower secondary education. In column 1 the sample is restricted to the treated clusters and we use the individual level randomization. Since randomization was done within community and gender we always control for those variables in the individual level regressions (this is indicated in the table by "Strata" for control variables. I chose to also show the female coefficient as it is interesting in itself (especially for the gender outcomes).

We see that the mean for the control group is 0.12, that is, 12 percent of the control kids in the treatment communities start lower secondary education. We see that there is an effect of individual treatment of 0.22. Hence, 34 percent of the treated kids start lower secondary and the effect is an 183 percent increase.

In columns 2 and 3 we run separate regressions by gender. This is seen in the "Gender" row at the bottom of the tables. We see that the effect is smaller for girls in absolute terms, but since the mean is also much lower the relative effect magnitude is much larger.

In column 4 we instead use the clustered random assignment and compare individuals randomly assigned to a treatment village to those randomly assigned to control villages. The strata variable in these regressions are region fixed effects as communities were randomly assigned within regions. Standard errors are here clustered at the community level as this is the level of the treatment variation. We see that individuals in treated villages are 12 percentage points more likely to start lower secondary education. This is almost a doubling from the 14 percent in the control villages.

In column 5 we investigate spillover effects in the treated communities. We do this by restricting the sample to control kids in both types of communities and compare the kids randomly assigned to have a school in their village, that they were not randomly

assigned to attend, to kids in control villages. As we are now comparing individuals we control for Female and community fixed effects as randomization was within these strata. There is little evidence of spillover in the educational outcomes.

All other tables in this document follows the same format so table notes and comments on the results stop here.

Table 1: Starting lower secondary education

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.22*** (0.021)	0.19*** (0.029)	0.24*** (0.030)		
Treatment cluster				0.12*** (0.031)	-0.020 (0.026)
Female	-0.11*** (0.022)				-0.020 (0.022)
Control mean	0.12	0.08	0.15	0.14	0.14
N	1340	579	761	2348	1541
R-squared	0.19	0.23	0.18	0.02	0.00
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Notes: All regressions control for strata fixed effects, which are gender and community in columns 1-3, Region in column 4, and Region and gender in column 5. The regressions in columns 1-3 follow equation (1) and the sample is restricted to individuals in treated communities. In addition, the sample consists of only girls in column 2, and of only boys in column 3. The regression in column 4 follows equation 2 and includes all individuals. The regression in column 5 also follows equation 2 but the sample is restricted to control individuals. P-values are $\leq 0.01^{***}$, $\leq 0.05^{**}$, and $\leq 0.1^*$. Robust SE in parentheses in columns 1-3 clustered at the community level in columns 4 and 5.

Table 2: Highest grade

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.31** (0.12)	0.24 (0.19)	0.39** (0.16)		
Treatment cluster				0.16 (0.21)	-0.065 (0.23)
Female	-0.36*** (0.13)				-0.26* (0.13)
Control mean	4.32	4.13	4.45	4.36	4.36
N	1010	402	608	1778	1134
R-squared	0.19	0.33	0.15	0.00	0.00
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 3: Years of schooling

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.68*** (0.14)	0.69*** (0.20)	0.66*** (0.19)		
Treatment cluster				0.041 (0.28)	-0.45 (0.28)
Female	-0.74*** (0.14)				-0.59*** (0.17)
Control mean	3.07	2.62	3.45	3.48	3.48
N	1340	579	761	2348	1541
R-squared	0.23	0.30	0.20	0.01	0.02
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 4: Qualified for secondary

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.30*** (0.023)	0.26*** (0.035)	0.31*** (0.031)		
Treatment cluster				0.22*** (0.025)	0.025* (0.014)
Female	-0.044* (0.026)				-0.020* (0.011)
Control mean	0.06	0.05	0.07	0.03	0.03
N	1010	402	608	1778	1134
R-squared	0.19	0.24	0.20	0.09	0.01
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 5: Illiterate

	(1)	(2)	(3)	(4)	(5)
Treatment individual	-0.17*** (0.021)	-0.15*** (0.028)	-0.18*** (0.031)		
Treatment cluster				-0.10*** (0.027)	0.0093 (0.027)
Female	0.11*** (0.022)				0.050** (0.019)
Control mean	0.86	0.91	0.82	0.86	0.86
N	1340	579	761	2348	1541
R-squared	0.15	0.19	0.13	0.03	0.01
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 6: Numeracy index

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.65*** (0.085)	0.48*** (0.12)	0.74*** (0.12)		
Treatment cluster				0.47*** (0.11)	0.034 (0.12)
Female	-0.45*** (0.085)				-0.28*** (0.073)
Control mean	0.87	0.70	1.01	0.82	0.82
N	1340	579	761	2348	1541
R-squared	0.15	0.16	0.17	0.03	0.01
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 7: Addition

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.20*** (0.025)	0.16*** (0.037)	0.22*** (0.035)		
Treatment cluster				0.12*** (0.031)	-0.0090 (0.035)
Female	-0.13*** (0.026)				-0.092*** (0.024)
Control mean	0.26	0.21	0.30	0.26	0.26
N	1340	579	761	2348	1541
R-squared	0.14	0.14	0.16	0.02	0.01
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 8: Subtraction

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.19*** (0.024)	0.16*** (0.035)	0.20*** (0.034)		
Treatment cluster				0.14*** (0.030)	0.016 (0.031)
Female	-0.11*** (0.025)				-0.076*** (0.021)
Control mean	0.22	0.17	0.27	0.20	0.20
N	1340	579	761	2348	1541
R-squared	0.14	0.14	0.17	0.03	0.01
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 9: Multiplication

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.15*** (0.024)	0.071** (0.036)	0.19*** (0.034)		
Treatment cluster				0.12*** (0.028)	0.019 (0.033)
Female	-0.12*** (0.025)				-0.063*** (0.019)
Control mean	0.23	0.20	0.26	0.21	0.21
N	1340	579	761	2348	1541
R-squared	0.12	0.12	0.15	0.02	0.01
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 10: Division

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.12*** (0.022)	0.090*** (0.030)	0.14*** (0.031)		
Treatment cluster				0.085*** (0.026)	0.0081 (0.027)
Female	-0.085*** (0.022)				-0.045** (0.018)
Control mean	0.16	0.12	0.19	0.15	0.15
N	1340	579	761	2348	1541
R-squared	0.12	0.13	0.13	0.02	0.01
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 11: Attended SSA

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.38*** (0.021)	0.34*** (0.032)	0.40*** (0.028)		
Treatment cluster				0.27*** (0.021)	0.038 (0.024)
Female	-0.048** (0.023)				0.00090 (0.010)
Control mean	0.08	0.07	0.08	0.04	0.04
N	1340	579	761	2348	1541
R-squared	0.22	0.21	0.26	0.12	0.01
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

2 Effects on other main outcomes

Table 12: Appropriate age for marriage

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.12 (0.21)	0.25 (0.32)	-0.037 (0.28)		
Treatment cluster				0.70*** (0.25)	0.30 (0.33)
Female	-3.58*** (0.20)				-3.86*** (0.22)
Control mean	21.60	19.48	23.28	21.07	21.07
N	1218	509	709	2134	1396
R-squared	0.24	0.15	0.06	0.01	0.22
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 13: Religious radicalism

	(1)	(2)	(3)	(4)	(5)
Treatment individual	-0.012 (0.028)	0.025 (0.042)	-0.043 (0.037)		
Treatment cluster				0.028 (0.028)	0.035 (0.029)
Female	0.030 (0.028)				-0.031 (0.029)
Control mean	0.47	0.46	0.48	0.44	0.44
N	1329	574	755	2320	1521
R-squared	0.06	0.09	0.10	0.01	0.01
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 14: Rosen

	(1)	(2)	(3)	(4)	(5)
Treatment individual	-0.17 (0.19)	0.17 (0.29)	-0.33 (0.26)		
Treatment cluster				0.22 (0.30)	0.25 (0.33)
Female	-0.029 (0.19)				-0.31* (0.18)
Control mean	20.10	20.04	20.16	19.84	19.84
N	1340	579	761	2348	1541
R-squared	0.14	0.22	0.12	0.01	0.01
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 15: Hazardous child labor

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.011 (0.021)	-0.0057 (0.024)	0.021 (0.033)		
Treatment cluster				-0.0017 (0.022)	-0.021 (0.024)
Female	-0.16*** (0.020)				-0.13*** (0.023)
Control mean	0.18	0.09	0.26	0.20	0.20
N	1340	579	761	2348	1541
R-squared	0.09	0.12	0.06	0.01	0.03
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 16: Gender equality index

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.051 (0.056)	0.15* (0.086)	-0.014 (0.074)		
Treatment cluster				-0.016 (0.051)	-0.020 (0.056)
Female	0.30*** (0.055)				0.28*** (0.052)
Control mean	-0.00	0.10	-0.09	0.04	0.04
N	1322	570	752	2316	1525
R-squared	0.07	0.10	0.06	0.00	0.02
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

3 Effects on secondary outcomes

Table 17: Remember being offered SSA

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.39*** (0.025)	0.41*** (0.037)	0.37*** (0.034)		
Treatment cluster				0.27*** (0.032)	0.036 (0.039)
Female	0.026 (0.023)				0.0080 (0.025)
Control mean	0.43	0.43	0.43	0.39	0.39
N	1340	579	761	2348	1541
R-squared	0.23	0.28	0.22	0.10	0.05
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 18: "Married" (or engaged)

	(1)	(2)	(3)	(4)	(5)
Treatment individual	-0.024 (0.017)	-0.056* (0.033)	0.000027 (0.016)		
Treatment cluster				-0.071*** (0.020)	-0.038 (0.026)
Female	0.16*** (0.018)				0.23*** (0.023)
Control mean	0.13	0.23	0.05	0.19	0.19
N	1340	579	761	2349	1542
R-squared	0.11	0.12	0.05	0.01	0.10
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 19: Parent

	(1)	(2)	(3)	(4)	(5)
Treatment individual	-0.0085 (0.0088)	-0.015 (0.018)	-0.00030 (0.0063)		
Treatment cluster				-0.014 (0.0083)	-0.0040 (0.010)
Female	0.039*** (0.0091)				0.057*** (0.0093)
Control mean	0.03	0.06	0.01	0.04	0.04
N	1340	579	761	2349	1542
R-squared	0.05	0.08	0.03	0.00	0.02
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 20: Desired fertility

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.013 (0.20)	-0.011 (0.27)	0.017 (0.29)		
Treatment cluster				0.045 (0.23)	-0.0072 (0.29)
Female	-1.00*** (0.19)				-1.20*** (0.18)
Control mean	7.71	7.32	8.06	7.69	7.69
N	1171	517	654	2076	1369
R-squared	0.12	0.15	0.13	0.02	0.05
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 21: Fatalistic desired fertility

	(1)	(2)	(3)	(4)	(5)
Treatment individual	-0.0030 (0.018)	0.012 (0.025)	-0.013 (0.026)		
Treatment cluster				0.024 (0.022)	0.026 (0.023)
Female	-0.027 (0.018)				0.011 (0.015)
Control mean	0.13	0.10	0.16	0.10	0.10
N	1340	579	761	2348	1541
R-squared	0.09	0.15	0.08	0.02	0.03
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 22: Violence acceptance index

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.055 (0.057)	0.082 (0.086)	0.023 (0.076)		
Treatment cluster				0.040 (0.044)	-0.00086 (0.049)
Female	-0.0040 (0.057)				-0.11** (0.054)
Control mean	-0.00	-0.03	0.02	-0.01	-0.01
N	1316	565	751	2296	1508
R-squared	0.03	0.08	0.06	0.00	0.00
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 23: Own violence

	(1)	(2)	(3)	(4)	(5)
Treatment individual	-0.044 (0.17)	-0.13 (0.24)	0.033 (0.23)		
Treatment cluster				-0.090 (0.15)	-0.055 (0.18)
Female	0.063 (0.17)				0.050 (0.15)
Control mean	7.27	7.35	7.20	7.32	7.32
N	1337	577	760	2338	1534
R-squared	0.04	0.09	0.04	0.00	0.00
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 24: Accept religious violence

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.071 (0.21)	0.21 (0.30)	-0.035 (0.29)		
Treatment cluster				0.17 (0.21)	0.11 (0.23)
Female	-0.090 (0.21)				-0.20 (0.20)
Control mean	5.66	5.51	5.79	5.55	5.55
N	1326	573	753	2316	1522
R-squared	0.06	0.11	0.08	0.00	0.00
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 25: Religious intolerance

	(1)	(2)	(3)	(4)	(5)
Treatment individual	-0.12 (0.19)	0.15 (0.30)	-0.32 (0.26)		
Treatment cluster				0.089 (0.19)	0.16 (0.21)
Female	0.18 (0.19)				-0.071 (0.18)
Control mean	6.32	6.31	6.34	6.17	6.17
N	1329	574	755	2327	1526
R-squared	0.05	0.06	0.09	0.01	0.01
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 26: Happy

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.026 (0.039)	0.011 (0.059)	0.038 (0.053)		
Treatment cluster				0.037 (0.048)	0.022 (0.054)
Female	0.048 (0.038)				0.053 (0.035)
Control mean	3.97	4.01	3.94	3.95	3.95
N	1339	578	761	2348	1542
R-squared	0.10	0.10	0.12	0.01	0.01
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 27: Working

	(1)	(2)	(3)	(4)	(5)
Treatment individual	-0.018 (0.024)	0.017 (0.029)	-0.057 (0.036)		
Treatment cluster				0.018 (0.028)	0.0014 (0.028)
Female	-0.22*** (0.023)				-0.28*** (0.026)
Control mean	0.29	0.14	0.42	0.27	0.27
N	1340	579	761	2348	1541
R-squared	0.14	0.14	0.12	0.02	0.12
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 28: Social desirability

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.028 (0.088)	-0.090 (0.13)	0.13 (0.12)		
Treatment cluster				-0.096 (0.10)	-0.12 (0.11)
Female	0.067 (0.086)				0.15 (0.093)
Control mean	6.05	6.16	5.95	6.17	6.17
N	1340	579	761	2348	1541
R-squared	0.09	0.12	0.09	0.00	0.01
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 29: High social desirability

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.0099 (0.027)	-0.040 (0.041)	0.057 (0.036)		
Treatment cluster				0.0017 (0.030)	-0.0057 (0.029)
Female	-0.0021 (0.027)				0.051* (0.029)
Control mean	0.39	0.43	0.37	0.40	0.40
N	1340	579	761	2348	1541
R-squared	0.07	0.13	0.07	0.00	0.01
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

4 Effects of education (years of schooling and starting lower secondary) using pre-specified attendance measure

Table 30: Numeracy index

	(1)	(2)	(3)	(4)	(5)	(6)
Years of schooling	0.97*** (0.19)	0.70*** (0.22)	1.13*** (0.30)			
Starting lower secondary				2.95*** (0.37)	2.56*** (0.62)	3.05*** (0.45)
Female	0.26 (0.19)			-0.14 (0.093)		
Control mean	0.87	0.70	1.01	0.87	0.70	1.01
N	1340	579	761	1340	579	761
Controls	Strata	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Girls	Boys

Table 31: Illiterate

	(1)	(2)	(3)	(4)	(5)	(6)
Years of schooling	-0.26*** (0.051)	-0.22*** (0.064)	-0.28*** (0.076)			
Starting lower secondary				-0.78*** (0.086)	-0.79*** (0.14)	-0.76*** (0.11)
Female	-0.080 (0.052)			0.026 (0.022)		
Control mean	0.86	0.91	0.82	0.86	0.91	0.82
N	1340	579	761	1340	579	761
Controls	Strata	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Girls	Boys

Table 32: Appropriate age for marriage

	(1)	(2)	(3)	(4)	(5)	(6)
Years of schooling	0.19 (0.33)	0.50 (0.65)	-0.051 (0.38)			
Starting lower secondary				0.55 (0.92)	1.36 (1.71)	-0.15 (1.09)
Female	-3.43*** (0.33)			-3.52*** (0.23)		
Control mean	21.60	19.48	23.28	21.60	19.48	23.28
N	1218	509	709	1218	509	709
Controls	Strata	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Girls	Boys

Table 33: "Married" (or engaged)

	(1)	(2)	(3)	(4)	(5)	(6)
Years of schooling	-0.036 (0.027)	-0.081 (0.052)	0.000041 (0.024)			
Starting lower secondary				-0.11 (0.078)	-0.30* (0.17)	0.00011 (0.065)
Female	0.13*** (0.028)			0.15*** (0.020)		
Control mean	0.13	0.23	0.05	0.13	0.23	0.05
N	1340	579	761	1340	579	761
Controls	Strata	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Girls	Boys

Table 34: Parent

	(1)	(2)	(3)	(4)	(5)	(6)
Years of schooling	-0.013 (0.013)	-0.022 (0.026)	-0.00046 (0.0095)			
Starting lower secondary				-0.038 (0.039)	-0.080 (0.091)	-0.0013 (0.026)
Female	0.030** (0.013)			0.035*** (0.0095)		
Control mean	0.03	0.06	0.01	0.03	0.06	0.01
N	1340	579	761	1340	579	761
Controls	Strata	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Girls	Boys

Table 35: Desired fertility

	(1)	(2)	(3)	(4)	(5)	(6)
Years of schooling	0.018 (0.27)	-0.018 (0.43)	0.022 (0.36)			
Starting lower secondary				0.055 (0.85)	-0.057 (1.39)	0.064 (1.09)
Female	-0.99*** (0.27)			-0.99*** (0.21)		
Control mean	7.71	7.32	8.06	7.71	7.32	8.06
N	1171	517	654	1171	517	654
Controls	Strata	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Girls	Boys

Table 36: Fatalistic desired fertility

	(1)	(2)	(3)	(4)	(5)	(6)
Years of schooling	-0.0044 (0.027)	0.017 (0.036)	-0.020 (0.040)			
Starting lower secondary				-0.013 (0.082)	0.062 (0.13)	-0.055 (0.11)
Female	-0.031 (0.028)			-0.029 (0.020)		
Control mean	0.13	0.10	0.16	0.13	0.10	0.16
N	1340	579	761	1340	579	761
Controls	Strata	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Girls	Boys

Table 37: Violence acceptance index

	(1)	(2)	(3)	(4)	(5)	(6)
Years of schooling	0.080 (0.083)	0.12 (0.12)	0.035 (0.11)			
Starting lower secondary				0.25 (0.25)	0.44 (0.45)	0.096 (0.30)
Female	0.054 (0.084)			0.022 (0.063)		
Control mean	-0.00	-0.03	0.02	-0.00	-0.03	0.02
N	1316	565	751	1316	565	751
Controls	Strata	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Girls	Boys

Table 38: Own violence

	(1)	(2)	(3)	(4)	(5)	(6)
Years of schooling	-0.064 (0.24)	-0.18 (0.35)	0.050 (0.34)			
Starting lower secondary				-0.20 (0.74)	-0.66 (1.25)	0.13 (0.92)
Female	0.016 (0.25)			0.042 (0.19)		
Control mean	7.27	7.35	7.20	7.27	7.35	7.20
N	1337	577	760	1337	577	760
Controls	Strata	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Girls	Boys

Table 39: Accept religious violence

	(1)	(2)	(3)	(4)	(5)	(6)
Years of schooling	0.10 (0.30)	0.31 (0.43)	-0.052 (0.41)			
Starting lower secondary				0.32 (0.92)	1.11 (1.57)	-0.14 (1.14)
Female	-0.014 (0.31)			-0.056 (0.23)		
Control mean	5.66	5.51	5.79	5.66	5.51	5.79
N	1326	573	753	1326	573	753
Controls	Strata	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Girls	Boys

Table 40: Religious intolerance

	(1)	(2)	(3)	(4)	(5)	(6)
Years of schooling	-0.18 (0.29)	0.22 (0.44)	-0.49 (0.42)			
Starting lower secondary				-0.54 (0.86)	0.77 (1.54)	-1.31 (1.04)
Female	0.046 (0.29)			0.12 (0.21)		
Control mean	6.32	6.31	6.34	6.32	6.31	6.34
N	1329	574	755	1329	574	755
Controls	Strata	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Girls	Boys

Table 41: Religious radicalism

	(1)	(2)	(3)	(4)	(5)	(6)
Years of schooling	-0.017 (0.040)	0.037 (0.062)	-0.063 (0.055)			
Starting lower secondary				-0.053 (0.12)	0.13 (0.22)	-0.18 (0.15)
Female	0.017 (0.041)			0.024 (0.031)		
Control mean	0.47	0.46	0.48	0.47	0.46	0.48
N	1329	574	755	1329	574	755
Controls	Strata	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Girls	Boys

Table 42: Rosen

	(1)	(2)	(3)	(4)	(5)	(6)
Years of schooling	-0.25 (0.28)	0.24 (0.41)	-0.51 (0.41)			
Starting lower secondary				-0.76 (0.85)	0.88 (1.49)	-1.36 (1.04)
Female	-0.21 (0.28)			-0.11 (0.21)		
Control mean	20.10	20.04	20.16	20.10	20.04	20.16
N	1340	579	761	1340	579	761
Controls	Strata	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Girls	Boys

Table 43: Happy

	(1)	(2)	(3)	(4)	(5)	(6)
Years of schooling	0.038 (0.057)	0.016 (0.084)	0.057 (0.080)			
Starting lower secondary				0.12 (0.17)	0.058 (0.30)	0.15 (0.21)
Female	0.077 (0.058)			0.060 (0.042)		
Control mean	3.97	4.01	3.94	3.97	4.01	3.94
N	1339	578	761	1339	578	761
Controls	Strata	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Girls	Boys

Table 44: Hazardous child labor

	(1)	(2)	(3)	(4)	(5)	(6)
Years of schooling	0.016 (0.031)	-0.0083 (0.034)	0.033 (0.049)			
Starting lower secondary				0.048 (0.095)	-0.030 (0.12)	0.088 (0.13)
Female	-0.15*** (0.031)			-0.16*** (0.023)		
Control mean	0.18	0.09	0.26	0.18	0.09	0.26
N	1340	579	761	1340	579	761
Controls	Strata	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Girls	Boys

Table 45: Working

	(1)	(2)	(3)	(4)	(5)	(6)
Years of schooling	-0.026 (0.036)	0.025 (0.042)	-0.087 (0.062)			
Starting lower secondary				-0.079 (0.11)	0.090 (0.15)	-0.23 (0.15)
Female	-0.24*** (0.037)			-0.22*** (0.026)		
Control mean	0.29	0.14	0.42	0.29	0.14	0.42
N	1340	579	761	1340	579	761
Controls	Strata	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Girls	Boys

Table 46: Gender equality index

	(1)	(2)	(3)	(4)	(5)	(6)
Years of schooling	0.074 (0.081)	0.21 (0.13)	-0.021 (0.11)			
Starting lower secondary				0.23 (0.25)	0.79* (0.45)	-0.058 (0.30)
Female	0.35*** (0.083)			0.32*** (0.062)		
Control mean	-0.00	0.10	-0.09	-0.00	0.10	-0.09
N	1322	570	752	1322	570	752
Controls	Strata	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Girls	Boys

5 Effects when adding the vector of controls

Table 47: Starting lower secondary education

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.21*** (0.020)	0.19*** (0.027)	0.23*** (0.029)		
Treatment cluster				0.14*** (0.024)	0.0051 (0.021)
Female	-0.068*** (0.023)				0.0051 (0.019)
Control mean	0.12	0.08	0.15	0.14	0.14
N	1340	579	761	2348	1541
R-squared	0.27	0.33	0.26	0.15	0.15
Controls	Extensive	Extensive	Extensive	Extensive	Extensive
Gender	Both	Girls	Boys	Both	Both

Table 48: Highest grade

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.37*** (0.11)	0.35** (0.16)	0.38** (0.15)		
Treatment cluster				0.32*** (0.12)	0.11 (0.12)
Female	-0.061 (0.12)				-0.11 (0.11)
Control mean	4.32	4.13	4.45	4.36	4.36
N	1010	402	608	1778	1134
R-squared	0.37	0.53	0.33	0.31	0.34
Controls	Extensive	Extensive	Extensive	Extensive	Extensive
Gender	Both	Girls	Boys	Both	Both

Table 49: Years of schooling

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.57*** (0.12)	0.64*** (0.17)	0.48*** (0.17)		
Treatment cluster				0.25* (0.13)	-0.11 (0.14)
Female	-0.31** (0.13)				-0.27** (0.13)
Control mean	3.07	2.62	3.45	3.48	3.48
N	1340	579	761	2348	1541
R-squared	0.45	0.52	0.42	0.40	0.43
Controls	Extensive	Extensive	Extensive	Extensive	Extensive
Gender	Both	Girls	Boys	Both	Both

Table 50: Qualified for secondary

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.31*** (0.023)	0.26*** (0.034)	0.31*** (0.032)		
Treatment cluster				0.23*** (0.023)	0.029** (0.014)
Female	-0.037 (0.027)				-0.023** (0.011)
Control mean	0.06	0.05	0.07	0.03	0.03
N	1010	402	608	1778	1134
R-squared	0.22	0.29	0.23	0.12	0.03
Controls	Extensive	Extensive	Extensive	Extensive	Extensive
Gender	Both	Girls	Boys	Both	Both

Table 51: Numeracy index

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.64*** (0.083)	0.49*** (0.12)	0.70*** (0.12)		
Treatment cluster				0.51*** (0.093)	0.096 (0.11)
Female	-0.33*** (0.089)				-0.21*** (0.070)
Control mean	0.87	0.70	1.01	0.82	0.82
N	1340	579	761	2348	1541
R-squared	0.21	0.21	0.23	0.11	0.10
Controls	Extensive	Extensive	Extensive	Extensive	Extensive
Gender	Both	Girls	Boys	Both	Both

Table 52: Illiterate

	(1)	(2)	(3)	(4)	(5)
Treatment individual	-0.17*** (0.021)	-0.14*** (0.028)	-0.18*** (0.031)		
Treatment cluster				-0.12*** (0.024)	-0.0058 (0.025)
Female	0.082*** (0.024)				0.037* (0.019)
Control mean	0.86	0.91	0.82	0.86	0.86
N	1340	579	761	2348	1541
R-squared	0.20	0.24	0.19	0.10	0.09
Controls	Extensive	Extensive	Extensive	Extensive	Extensive
Gender	Both	Girls	Boys	Both	Both

Table 53: Appropriate age for marriage

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.15 (0.21)	0.27 (0.32)	-0.017 (0.28)		
Treatment cluster				0.67*** (0.25)	0.32 (0.33)
Female	-3.64*** (0.22)				-3.85*** (0.23)
Control mean	21.60	19.48	23.28	21.07	21.07
N	1218	509	709	2134	1396
R-squared	0.25	0.17	0.09	0.03	0.22
Controls	Extensive	Extensive	Extensive	Extensive	Extensive
Gender	Both	Girls	Boys	Both	Both

Table 54: Religious radicalism

	(1)	(2)	(3)	(4)	(5)
Treatment individual	-0.017 (0.028)	0.032 (0.043)	-0.048 (0.037)		
Treatment cluster				0.032 (0.028)	0.047 (0.029)
Female	0.037 (0.029)				-0.0065 (0.029)
Control mean	0.47	0.46	0.48	0.44	0.44
N	1329	574	755	2320	1521
R-squared	0.07	0.10	0.13	0.02	0.03
Controls	Extensive	Extensive	Extensive	Extensive	Extensive
Gender	Both	Girls	Boys	Both	Both

Table 55: Rosen

	(1)	(2)	(3)	(4)	(5)
Treatment individual	-0.20 (0.19)	0.091 (0.29)	-0.31 (0.26)		
Treatment cluster				0.26 (0.27)	0.31 (0.31)
Female	0.011 (0.20)				-0.26 (0.20)
Control mean	20.10	20.04	20.16	19.84	19.84
N	1340	579	761	2348	1541
R-squared	0.18	0.26	0.17	0.06	0.04
Controls	Extensive	Extensive	Extensive	Extensive	Extensive
Gender	Both	Girls	Boys	Both	Both

Table 56: Hazardous child labor

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.0084 (0.021)	-0.0083 (0.024)	0.0093 (0.033)		
Treatment cluster				-0.00037 (0.022)	-0.015 (0.024)
Female	-0.16*** (0.022)				-0.12*** (0.023)
Control mean	0.18	0.09	0.26	0.20	0.20
N	1340	579	761	2348	1541
R-squared	0.11	0.13	0.10	0.03	0.05
Controls	Extensive	Extensive	Extensive	Extensive	Extensive
Gender	Both	Girls	Boys	Both	Both

Table 57: Gender equality index

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.057 (0.056)	0.15* (0.088)	-0.018 (0.074)		
Treatment cluster				-0.014 (0.050)	-0.019 (0.055)
Female	0.27*** (0.059)				0.25*** (0.056)
Control mean	-0.00	0.10	-0.09	0.04	0.04
N	1322	570	752	2316	1525
R-squared	0.08	0.13	0.08	0.02	0.04
Controls	Extensive	Extensive	Extensive	Extensive	Extensive
Gender	Both	Girls	Boys	Both	Both

6 Effects when adding optimal controls

Table 58: Starting lower secondary education

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.21*** (0.020)	0.19*** (0.026)	0.22*** (0.028)		
Treatment cluster				0.14*** (0.025)	0.0012 (0.019)
Female	-0.070*** (0.021)				0.0018 (0.019)
Control mean	0.12	0.08	0.15	0.14	0.14
N	1340	579	761	2348	1541
Controls	Lasso	Lasso	Lasso	Lasso	Lasso
Gender	Both	Girls	Boys	Both	Both

Table 59: Highest grade

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.35*** (0.11)	0.40** (0.16)	0.35** (0.14)		
Treatment cluster				0.30** (0.13)	0.066 (0.13)
Female	-0.15 (0.11)				-0.14 (0.11)
Control mean	4.32	4.13	4.45	4.36	4.36
N	1010	402	608	1778	1134
Controls	Lasso	Lasso	Lasso	Lasso	Lasso
Gender	Both	Girls	Boys	Both	Both

Table 60: Years of schooling

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.59*** (0.12)	0.73*** (0.17)	0.49*** (0.16)		
Treatment cluster				0.23* (0.14)	-0.14 (0.14)
Female	-0.39*** (0.12)				-0.30** (0.12)
Control mean	3.07	2.62	3.45	3.48	3.48
N	1340	579	761	2348	1541
Controls	Lasso	Lasso	Lasso	Lasso	Lasso
Gender	Both	Girls	Boys	Both	Both

Table 61: Qualified for secondary

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.30*** (0.022)	0.26*** (0.033)	0.31*** (0.030)		
Treatment cluster				0.22*** (0.024)	0.025* (0.014)
Female	-0.044* (0.026)				-0.020* (0.011)
Control mean	0.06	0.05	0.07	0.03	0.03
N	1010	402	608	1778	1134
Controls	Lasso	Lasso	Lasso	Lasso	Lasso
Gender	Both	Girls	Boys	Both	Both

Table 62: Numeracy index

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.63*** (0.081)	0.49*** (0.11)	0.67*** (0.11)		
Treatment cluster				0.51*** (0.093)	0.100 (0.10)
Female	-0.33*** (0.082)				-0.20*** (0.066)
Control mean	0.87	0.70	1.01	0.82	0.82
N	1340	579	761	2348	1541
Controls	Lasso	Lasso	Lasso	Lasso	Lasso
Gender	Both	Girls	Boys	Both	Both

Table 63: Illiterate

	(1)	(2)	(3)	(4)	(5)
Treatment individual	-0.17*** (0.021)	-0.15*** (0.028)	-0.17*** (0.030)		
Treatment cluster				-0.11*** (0.024)	-0.0059 (0.025)
Female	0.083*** (0.021)				0.031* (0.018)
Control mean	0.86	0.91	0.82	0.86	0.86
N	1340	579	761	2348	1541
Controls	Lasso	Lasso	Lasso	Lasso	Lasso
Gender	Both	Girls	Boys	Both	Both

Table 64: Appropriate age for marriage

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.12 (0.21)	0.25 (0.31)	-0.037 (0.27)		
Treatment cluster				0.68*** (0.25)	0.30 (0.33)
Female	-3.58*** (0.20)				-3.86*** (0.22)
Control mean	21.60	19.48	23.28	21.07	21.07
N	1218	509	709	2134	1396
Controls	Lasso	Lasso	Lasso	Lasso	Lasso
Gender	Both	Girls	Boys	Both	Both

Table 65: Religious radicalism

	(1)	(2)	(3)	(4)	(5)
Treatment individual	-0.012 (0.027)	0.025 (0.041)	-0.043 (0.036)		
Treatment cluster				0.028 (0.028)	0.035 (0.029)
Female	0.030 (0.027)				-0.031 (0.029)
Control mean	0.47	0.46	0.48	0.44	0.44
N	1329	574	755	2320	1521
Controls	Lasso	Lasso	Lasso	Lasso	Lasso
Gender	Both	Girls	Boys	Both	Both

Table 66: Rosen

	(1)	(2)	(3)	(4)	(5)
Treatment individual	-0.17 (0.19)	0.17 (0.28)	-0.35 (0.25)		
Treatment cluster				0.25 (0.29)	0.25 (0.33)
Female	-0.072 (0.19)				-0.31* (0.18)
Control mean	20.10	20.04	20.16	19.84	19.84
N	1340	579	761	2348	1541
Controls	Lasso	Lasso	Lasso	Lasso	Lasso
Gender	Both	Girls	Boys	Both	Both

Table 67: Hazardous child labor

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.011 (0.021)	-0.0057 (0.023)	0.021 (0.032)		
Treatment cluster				-0.00012 (0.022)	-0.021 (0.024)
Female	-0.16*** (0.020)				-0.13*** (0.023)
Control mean	0.18	0.09	0.26	0.20	0.20
N	1340	579	761	2348	1541
Controls	Lasso	Lasso	Lasso	Lasso	Lasso
Gender	Both	Girls	Boys	Both	Both

Table 68: Gender equality index

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.051 (0.055)	0.15* (0.084)	-0.014 (0.072)		
Treatment cluster				-0.0076 (0.051)	-0.020 (0.056)
Female	0.30*** (0.055)				0.28*** (0.051)
Control mean	-0.00	0.10	-0.09	0.04	0.04
N	1322	570	752	2316	1525
Controls	Lasso	Lasso	Lasso	Lasso	Lasso
Gender	Both	Girls	Boys	Both	Both

7 Attrition

Table 69: Attrition

	(1)	(2)	(3)	(4)	(5)
Treatment individual	-0.036* (0.021)	-0.038 (0.030)	-0.039 (0.028)		
Treatment cluster				-0.044* (0.025)	-0.027 (0.025)
Female	-0.046** (0.020)				-0.058** (0.024)
Control mean	0.27	0.24	0.29	0.29	0.29
N	1786	744	1042	3216	2161
R-squared	0.05	0.08	0.05	0.01	0.01
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

8 Spillover effects on siblings

Questions asked about what siblings (same mother and/or same father) 7-18 years old were doing in the past two years.

Table 70: Sibling started school

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.012 (0.029)	-0.038 (0.045)	0.042 (0.040)		
Treatment cluster				-0.017 (0.036)	-0.023 (0.042)
Female	-0.0091 (0.029)				0.0015 (0.029)
Control mean	0.55	0.58	0.53	0.58	0.58
N	1153	498	655	2009	1306
R-squared	0.08	0.11	0.10	0.00	0.00
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 71: Sibling quitted school

	(1)	(2)	(3)	(4)	(5)
Treatment individual	-0.021 (0.027)	0.0026 (0.042)	-0.046 (0.035)		
Treatment cluster				-0.023 (0.027)	-0.0088 (0.032)
Female	0.0030 (0.027)				-0.027 (0.027)
Control mean	0.31	0.29	0.32	0.32	0.32
N	1153	498	655	2009	1306
R-squared	0.08	0.09	0.13	0.01	0.02
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 72: Sibling moved to earn money

	(1)	(2)	(3)	(4)	(5)
Treatment individual	-0.015 (0.024)	0.0067 (0.034)	-0.034 (0.034)		
Treatment cluster				0.00022 (0.023)	0.0045 (0.027)
Female	-0.057** (0.024)				-0.058** (0.025)
Control mean	0.20	0.17	0.23	0.20	0.20
N	1153	498	655	2009	1306
R-squared	0.05	0.11	0.07	0.01	0.02
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 73: Sibling emigrated

	(1)	(2)	(3)	(4)	(5)
Treatment individual	-0.013 (0.022)	-0.020 (0.032)	-0.0037 (0.030)		
Treatment cluster				0.0088 (0.019)	0.016 (0.020)
Female	-0.032 (0.021)				-0.023 (0.022)
Control mean	0.15	0.14	0.16	0.14	0.14
N	1153	498	655	2009	1306
R-squared	0.05	0.07	0.08	0.01	0.02
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 74: Sibling got married

	(1)	(2)	(3)	(4)	(5)
Treatment individual	-0.0038 (0.022)	-0.0020 (0.034)	0.0027 (0.029)		
Treatment cluster				0.0046 (0.019)	0.0087 (0.023)
Female	-0.0044 (0.022)				0.0065 (0.019)
Control mean	0.16	0.17	0.15	0.15	0.15
N	1153	498	655	2009	1306
R-squared	0.04	0.06	0.07	0.01	0.01
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both

Table 75: Sibling got hazardous work

	(1)	(2)	(3)	(4)	(5)
Treatment individual	0.0021 (0.015)	0.035 (0.022)	-0.022 (0.022)		
Treatment cluster				-0.0012 (0.018)	-0.00069 (0.018)
Female	-0.0078 (0.015)				-0.022* (0.013)
Control mean	0.07	0.04	0.09	0.07	0.07
N	1153	498	655	2009	1306
R-squared	0.07	0.12	0.07	0.00	0.01
Controls	Strata	Strata	Strata	Strata	Strata
Gender	Both	Girls	Boys	Both	Both