

Supplementary file

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Table S1. Well-being and condom use by sexual activity groups among boys and girls.

	Boys (N=11,252)				Girls (N=11,316)			
	Sexual inactivity	Early sexual initiation (≤15 yrs.)	On-time sexual activity (≥16 yrs.)	p	Sexual inactivity	Early sexual initiation (≤15 yrs.)	On-time sexual activity (≥16 yrs.)	p
Socioeconomic status (FAS) (%)				0.027				0.001
Low	30.4	30.4	31.0		35.4	31.1	32.2	
Medium	54.2	49.2	52.7		52.2	51.0	52.4	
High	15.4	20.4	16.3		12.4	17.8	15.4	
Geographical area (%)				<0.001				0.002
Northern	33.1	23.8	26.8		34.0	33.1	33.7	
Centre	21.7	23.8	23.7		20.4	27.7	22.1	
Southern	45.3	52.4	49.4		45.6	39.2	44.2	
Migrant status (%)	15.1	14.3	10.8	0.004	16.8	14.0	12.3	0.002
Non-intact family structure (%)	16.4	24.9	16.4	<0.001	17.1	27.5	22.4	<0.001
High family support (%)	63.4	63.4	64.1	0.922	57.1	52.4	54.9	0.079
High peer support (%)	58.4	60.2	68.2	<0.001	60.1	59.3	60.2	0.926
Social media use (%)				0.016				0.582
Inactive	8.7	7.0	5.9		5.2	4.9	3.8	
Active	63.9	61.0	66.7		52.9	51.0	51.7	
Intense	20.7	25.3	21.0		29.6	31.2	31.7	
Problematic	6.6	6.7	6.4		12.2	12.9	12.8	
High school pressure (%)	62.9	63.5	61.7	0.744	83.6	82.9	80.4	0.062
Menarcheal status (%)								0.003
No menarche					1.9	1.6	0.9	
Early menarche					11.3	15.9	13.1	
On-time menarche					86.8	82.5	56.0	
High LS (%)	9.8	14.4	11.5	0.002	6.8	7.1	6.6	0.925
PHC (%)	51.2	56.9	51.7	0.028	80.3	86.9	85.2	<0.001
Loneliness (%)	13.8	11.9	9.1	<0.001	26.6	25.6	22.0	0.013
Condom use (%)	NaN	57.9	73.8	NaN	NaN	49.2	64.1	NaN

Abbreviations. FAS, Family Affluence Scale; LS, life satisfaction; PHC, psychosomatic health complaints.

Table S2. Association between sexual activity and High LS, PHC, loneliness among 17-year-old boys and girls.

	High LS			Boys PHC			Loneliness			High LS			Girls PHC			Loneliness		
	OR	2.5 %	97.5 %	OR	2.5 %	97.5 %	OR	2.5 %	97.5 %	OR	2.5 %	97.5 %	OR	2.5 %	97.5 %	OR	2.5 %	97.5 %
Sexual activity																		
Early sexual activity (≤15) (vs. sexual inactivity)	1.49	1.14	1.94	1.26	1.06	1.51	0.77	0.59	1.00	1.20	0.84	1.71	1.56	1.23	1.99	0.87	0.71	1.06
On-time sexual activity (≥16) (vs. sexual inactivity)	1.08	0.84	1.39	1.06	0.90	1.26	0.67	0.52	0.88	0.99	0.73	1.35	1.47	1.20	1.81	0.78	0.64	0.94
Socioeconomic status (FAS)																		
Medium (vs. Low)	1.44	1.07	1.92	0.82	0.69	0.96	0.78	0.62	0.98	0.87	0.63	1.18	0.99	0.82	1.20	1.01	0.85	1.20
High (vs. Low)	2.15	1.57	2.94	0.82	0.67	0.99	0.81	0.59	1.13	1.23	0.81	1.85	0.74	0.57	0.97	0.95	0.74	1.22
Geographical area																		
Centre (vs. Northern)	1.35	1.06	1.71	1.01	0.87	1.18	0.85	0.67	1.08	1.15	0.81	1.63	0.98	0.80	1.20	1.00	0.80	1.25
Southern (vs. Northern)	1.13	0.91	1.41	0.94	0.80	1.11	1.02	0.81	1.28	1.33	0.91	1.92	1.24	1.00	1.54	0.99	0.84	1.17
Intact family structure (vs. non- intact)																		
High family support (vs. Medium-low)	2.80	2.14	3.67	0.43	0.37	0.50	0.31	0.25	0.39	3.82	2.72	5.35	0.42	0.35	0.50	0.47	0.40	0.56
Migrant status (vs. non migrant)																		
High peer support (vs. Medium-low)	1.70	1.34	2.17	0.71	0.61	0.82	0.50	0.40	0.61	1.38	0.99	1.93	0.77	0.64	0.92	0.32	0.28	0.38
Social media use																		
Non- active (vs. active)	0.70	0.46	1.06	1.22	0.94	1.57	0.61	0.45	0.84	0.82	0.46	1.49	0.87	0.59	1.29	0.84	0.60	1.17
Intense (vs. active)	0.85	0.56	1.30	1.83	1.36	2.47	0.74	0.52	1.05	0.83	0.43	1.60	1.42	0.93	2.17	0.96	0.67	1.37
Problematic (vs. active)	0.88	0.50	1.54	1.97	1.38	2.81	0.93	0.61	1.42	0.78	0.40	1.52	2.46	1.49	4.06	1.49	1.02	2.19

High school pressure (vs. Medium-low)	0.58	0.48	0.71	2.18	1.91	2.50	1.65	1.31	2.08	0.40	0.29	0.55	3.80	3.13	4.61	2.10	1.63	2.70
Menarcheal status																		
Early menarche (vs. no menarche)										1.35	0.42	4.36	0.63	0.28	1.44	0.47	0.25	0.89
On-time menarche (vs. no menarche)										1.03	0.34	3.10	0.55	0.25	1.21	0.41	0.22	0.78

Note. Bold values indicate statistically significant associations ($p < 0.05$).

Abbreviations. FAS, Family Affluence Scale; OR, odds ratio; PHC, LS, life satisfaction; PHC, psychosomatic health complaints.

Table S3. Association between sexual activity (per age of initiation) and High LS, PHC, and loneliness among 17-year-old boys and girls. Odds ratio (OR) and 95% confidence intervals (95%CI) are shown.

	Boys			Girls		
	High LS	PHC	Loneliness	High LS	PHC	Loneliness
Sexual activity (categorization per age of initiation)						
Sexual inactivity	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Initiation at <14	1.81 (1.01; 3.23)	1.86 (1.21; 2.86)	1.09 (0.66; 1.79)	1.76 (0.66; 4.68)	1.26 (0.66; 2.42)	1.01 (0.57; 1.79)
Initiation at 14	1.35 (0.87; 2.09)	1.43 (1.07; 1.92)	0.89 (0.56;1.42)	0.46 (0.23; 0.95)	1.71 (1.11; 2.65)	0.78 (0.57;1.07)
Initiation at 15	1.48 (1.07; 2.04)	1.06 (0.84; 1.34)	0.59 (0.40; 0.88)	1.53 (1.03; 2.26)	1.54 (1.15; 2.06)	0.89 (0.71; 1.13)
Initiation at ≥16	1.08 (0.84; 1.39)	1.06 (0.90; 1.26)	0.67 (0.52; 0.88)	0.99 (0.73; 1.36)	1.47 (1.20; 1.81)	0.78 (0.64;0.94)

Note. Bold values indicate statistically significant associations (p<0.05).

Abbreviations. OR, odds ratio; PHC, LS, life satisfaction; PHC, psychosomatic health complaints.

Table S4. Association between sexual activity and condom use among boys and girls at 17.

		Condom use				
	OR	Boys		OR	Girls	
		2.5 %	97.5 %		2.5 %	97.5 %
Sexual activity						
Early sexual activity (≤15) (vs. on-time sexual activity)	0.49	0.40	0.61	0.55	0.46	0.66
Socioeconomic status (FAS)						
Medium (vs. Low)	1.05	0.82	1.34	0.99	0.78	1.26
High (vs. Low)	1.19	0.86	1.65	0.92	0.68	1.26
Geographical area						
Centre (vs. Northern)	0.90	0.69	1.18	0.88	0.68	1.14
Southern (vs. Northern)	1.06	0.81	1.38	1.34	1.06	1.69
Intact family structure (vs. non-intact)	1.07	0.81	1.40	1.21	0.96	1.52
High family support (vs. Medium-low)	1.05	0.82	1.35	0.98	0.80	1.21
Migrant status (vs. non migrant)	0.91	0.67	1.23	1.33	1.01	1.76
High peer support (vs. Medium-low)	0.97	0.76	1.25	1.12	0.90	1.38
Social media use						
Non- active (vs. active)	1.11	0.70	1.75	1.07	0.66	1.71
Intense (vs. active)	1.17	0.71	1.92	0.88	0.53	1.46
Problematic (vs. active)	1.08	0.59	1.97	0.93	0.54	1.58
High school pressure (vs. Medium-low)	0.93	0.73	1.18	1.17	0.90	1.53
Menarcheal status						
Early menarche (vs. no menarche)				0.74	0.30	1.82
On-time menarche (vs. no menarche)				0.82	0.33	2.05

Note. Bold values indicate statistically significant associations ($p < 0.05$).

Abbreviations. FAS, Family Affluence Scale; OR, odds ratio.

Table S5. Association between sexual activity per year of sexual initiation and use of condoms among boys and girls. Odds ratio (OR) and 95% confidence intervals (95%CI) are shown.

	Condom use	
	Boys	Girls
Sexual activity (per age of initiation)		
Initiation at <14	0.25 (0.16; 0.38)	0.37 (0.22; 0.62)
Initiation at 14	0.49 (0.36; 0.66)	0.44 (0.33; 0.59)
Initiation at 15	0.61 (0.48; 0.78)	0.64 (0.51; 0.80)
Initiation at >15	Ref.	Ref.

Note. Bold values indicate statistically significant associations ($p < 0.05$).
Abbreviations. OR, odds ratio.