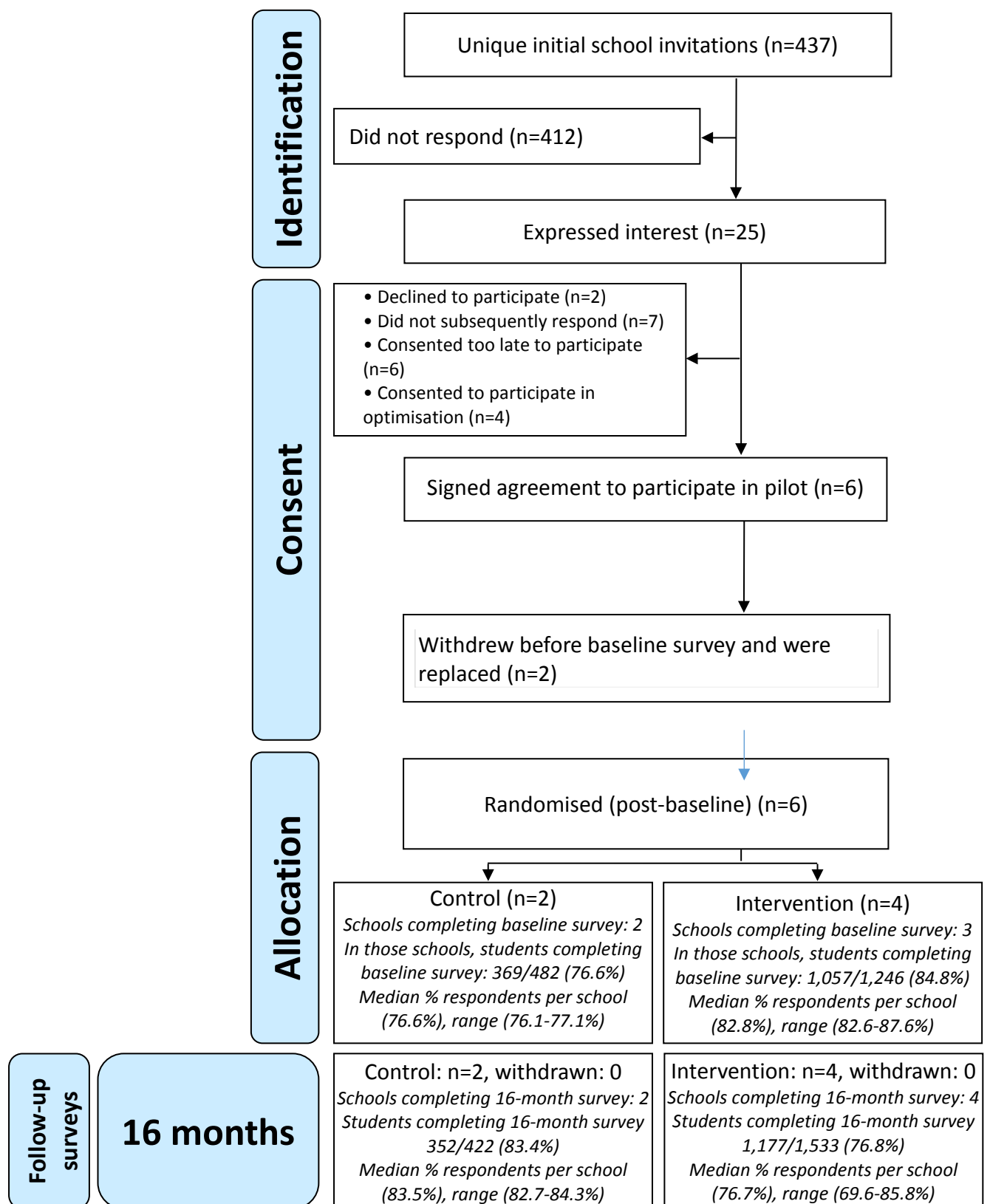


Participant Flow



Baseline Characteristics

Pilot school characteristics and baseline student characteristics trial arm

	Intervention ^a (4 schools)	Control (2 schools)	Overall ^a (6 schools)
School characteristics			
School region, n (%)			
SE England	2 (50.0)	1 (50.0)	3 (50.0)
SW England	2 (50.0)	1 (50.0)	3 (50.0)
School sex mix, n (%) ^b			
Mixed	4 (100)	2 (100)	6 (100)
School type, n (%) ^b			
Academy – converter mainstream	1 (25.0)	1 (50.0)	2 (33.3)
Academy – sponsor led	2 (50.0)	1 (50.0)	3 (50.0)
Ofsted rating, n (%) ^c			
Good	4 (100)	0 (0)	4 (66.7)
Requires improvement	0 (0)	1 (100)	1 (16.7)
Not yet rated	0 (0)	1 (100)	1 (16.7)
Value added score, mean (SD) ^{d,e}	-0.29 (0.47)	-0.16 (0.11)	-0.24 (0.34)
Proportion of students on free school meals, mean (SD) ^{b,d}	21.8 (15.3)	11.5 (0.1)	18.3 (13.0)
School size, mean (SD) ^{b,d}	1189 (312)	723 (47)	1034 (342)
IDACI score, mean (SD) ^{d,f}	0.29 (0.23)	0.11 (0.13)	0.23 (0.21)
Student characteristics	Intervention (1057 students)	Control (369 students)	Overall (1426 students)
Year-group, n (%)			
Year 8	499 (47.2)	160 (43.4)	659 (46.2)
Year 9	557 (52.7)	209 (56.6)	766 (53.7)
Missing	1 (0.1)	0 (0)	1 (0.1)
Age, mean (SD)	13.3 (0.6)	13.4 (0.6)	13.4 (0.6)
Missing	1 (0.1)	0 (0)	1 (0.01)
Sex, n (%)			
Male	550 (52.0)	184 (49.9)	734 (51.5)
Female	506 (47.9)	185 (50.1)	691 (48.5)
Missing	1 (0.1)	0 (0)	1 (0.1)
Gender, n (%)			
Male	424 (40.1)	148 (40.1)	572 (40.1)

Female	423 (40.0)	161 (43.6)	584 (41.0)
Non-binary	39 (3.7)	13 (3.5)	52 (3.7)
Other	50 (4.7)	13 (3.5)	63 (4.4)
Unsure	54 (5.1)	15 (4.1)	69 (4.8)
Prefer not to say	62 (5.9)	18 (4.9)	80 (5.6)
Missing	5 (0.5)	1 (0.3)	6 (0.4)
Ethnicity, n (%)			
White British	470 (44.5)	197 (53.4)	667 (46.8)
White other	133 (12.6)	39 (10.6)	172 (12.1)
Asian/Asian British	68 (6.4)	12 (3.3)	80 (5.6)
Black/Black British	120 (11.4)	29 (7.9)	149 (10.5)
Mixed ethnicity	87 (8.2)	25 (6.8)	112 (7.9)
Other	69 (6.5)	9 (2.4)	78 (5.5)
Missing	110 (10.4)	58 (15.7)	168 (11.8)
Religion, n (%)			
None	410 (38.8)	159 (43.1)	569 (39.9)
Christian	245 (23.2)	80 (21.7)	325 (22.8)
Jewish	31 (2.9)	7 (1.9)	38 (2.7)
Muslim/Islam	132 (12.5)	20 (5.4)	152 (10.7)
Hindu	16 (1.5)	4 (1.1)	20 (1.4)
Buddhist	7 (0.7)	4 (1.1)	11 (0.8)
Sikh	3 (0.3)	2 (0.5)	5 (0.4)
Other	38 (3.6)	5 (1.4)	43 (3.0)
Unsure	63 (6.0)	28 (7.6)	91 (6.4)
Missing	112 (10.6)	60 (16.3)	172 (12.1)
Family structure, n (%)			
Two parents	539 (51.0)	178 (48.2)	717 (50.3)
Lone mother	159 (15.0)	40 (10.8)	199 (14.0)
Lone father	20 (1.9)	9 (2.4)	29 (2.0)
Reconstituted	146 (13.8)	57 (15.5)	203 (14.2)
Other	82 (7.8)	21 (5.7)	103 (7.2)
Missing	111 (10.5)	64 (17.3)	175 (12.3)
At least one adult in household in work, n (%)			
Yes	757 (71.6)	252 (68.3)	1009 (70.8)
No	84 (8.0)	36 (9.8)	120 (8.4)
Don't know	103 (9.7)	17 (4.6)	120 (8.4)
Missing	113 (10.7)	64 (17.3)	177 (12.4)

Housing tenure, n (%)			
Renting from council or housing association	157 (14.9)	48 (13.0)	205 (14.4)
Renting from a landlord	107 (10.1)	22 (6.0)	129 (9.1)
Owned by family	437 (41.3)	152 (41.2)	589 (41.3)
Other	45 (4.3)	26 (7.1)	71 (5.0)
Don't know	188 (17.8)	56 (15.2)	244 (17.1)
Missing	123 (11.6)	65 (17.6)	188 (13.2)
Family affluence scale, mean (SD) ^f	6.1 (1.7)	6.2 (1.4)	6.1 (1.6)
Missing	347 (32.8)	157 (42.5)	504 (35.3)
Boyfriend/girlfriend in the last 12 months, n (%)	443 (41.9)	185 (50.1)	628 (44.0)
Missing	5 (0.5)	1 (0.3)	6 (0.4)
Students reporting ever dating someone, N (%)	728 (68.9)	294 (79.7)	1022 (71.7)
Missing	11 (1.0)	1 (0.3)	12 (0.8)
Sexual identity, n (%)			
Straight	899 (85.1)	301 (81.6)	1200 (84.2)
Gay	24 (2.3)	14 (3.8)	38 (2.7)
Bisexual	43 (4.1)	30 (8.1)	73 (5.1)
Other	23 (2.2)	7 (1.9)	30 (2.1)
Unsure	39 (3.7)	10 (2.7)	49 (3.4)
Prefer not to say	25 (2.4)	6 (1.6)	31 (2.2)
Missing	4 (0.4)	1 (0.3)	5 (0.4)
Attitudes accepting of DRV, mean (SD) ^{d,g}	3.2 (0.5)	3.3 (0.5)	3.2 (0.5)
Injunctive norms supportive of DRV, mean (SD) ^{d,g}	2.4 (0.4)	2.4 (0.4)	2.4 (0.4)
Among those with friends with girl/boyfriends, DRV descriptive norms, mean (SD) ^{d,g}	3.6 (0.5)	3.6 (0.5)	3.6 (0.5)
Stereotypical gender-related attitudes, mean (SD) ^g	3.3 (0.5)	3.3 (0.5)	3.3 (0.5)
Stereotypical gender-related norms, mean (SD) ^{d,g}	2.5 (0.4)	2.5 (0.4)	2.5 (0.4)
Self-reported awareness of services if you were experiencing violence in a relationship, N (%)	551 (52.1)	219 (59.4)	770 (54.0)
Among those who have experienced violence in a relationship, talked to an adult, N (%)	57 (39.6)	15 (44.1)	72 (40.5)
Accurate dating violence knowledge, median percentage of correct responses (interquartile range) ^f	71.4 (57.1 to 85.7)	85.7 (71.4 to 100)	71.4 (57.1 to 85.7)
Downloading of an app to get help when feeling	88 (8.3)	19 (5.2)	107 (7.5)

threatened, N (%)			
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^a One intervention school did not participate in student baseline surveys. Data on intervention school student characteristics come from the three intervention schools that did participate in student baseline surveys.

^b 2017 data retrieved from www.compare-school-performance.service.gov.uk , retrieved on 24/08/2018.

^c Historical Ofsted rankings retrieved from reports.ofsted.gov.uk

^d SD = standard deviation

^e Value-added score is reported as the school's Progress 8 score, retrieved from www.compare-school-performance.service.gov.uk on 21/01/2019.

^f IDACI score retrieved by school post-code from imd-by-postcode.opendatacommunities.org in September 2018. These data were released in 2015 and are based on income and benefits data taken from 2012/2013.

^g See *Appendix 9, Outcome, mediator and multi-item measures* for items comprising these measures

Primary and secondary outcomes at baseline

Primary outcomes (binary) ^a	Intervention ^b (1057 students)	Control (369 students)	Overall ^b (1426 students)
DRV victimisation ever (Safe Dates), N (%)	575 (54.4)	226 (60.3)	801 (56.2)
Psychological abuse, N (%)	506 (47.8)	194 (52.6)	700 (49.1)
Physical violence, N (%)	400 (37.8)	163 (44.2)	563 (39.5)
DRV victimisation in past 12 months (CADRI-s), N (%)	320 (30.3)	139 (37.7)	459 (32.2)
DRV perpetration ever (Safe Dates), N (%)	488 (46.2)	192 (52.0)	680 (47.7)
Psychological abuse, N (%)	388 (36.7)	152 (41.2)	540 (37.9)
Physical violence, N (%)	329 (31.1)	124 (33.6)	453 (31.8)
DRV perpetration in past 12 months (CADRI-s), N (%)	277 (26.2)	115 (31.2)	392 (27.5)
Secondary outcomes (continuous)			
Frequency of DRV victimisation ever (Safe Dates) mean (SD) ^c	0.18 (0.36)	0.15 (0.22)	0.17 (0.33)
Psychological abuse, mean (SD) ^c	0.23 (0.43)	0.20 (0.33)	0.22 (0.41)
Physical violence, mean (SD) ^c	0.13 (0.34)	0.10 (0.18)	0.12 (0.31)
Frequency of DRV victimisation in past 12 months (CADRI-s) mean (SD) ^c	0.17 (0.39)	0.17 (0.31)	0.17 (0.37)
Frequency of DRV perpetration ever (Safe Dates), mean (SD) ^c	0.09 (0.22)	0.07 (0.10)	0.08 (0.20)
Psychological abuse, mean (SD) ^c	0.10 (0.25)	0.08 (0.13)	0.10 (0.22)

Primary outcomes (binary)^a	Intervention^b (1057 students)	Control (369 students)	Overall^b (1426 students)
Physical violence, mean (SD) ^c	0.08 (0.25)	0.06 (0.11)	0.07 (0.22)
Frequency of DRV perpetration in past 12 months (CADRI-s) mean (SD) ^c	0.10 (0.27)	0.10 (0.18)	0.10 (0.25)
SWEMWBS overall score, mean (SD)	24.7 (5.8)	24.0 (5.4)	24.5 (5.7)
PedsQL overall score, mean (SD)	75.2 (15.0)	73.8 (15.4)	74.8 (15.1)
Physical, mean (SD)	81.5 (15.6)	80.1 (15.9)	81.1 (15.7)
Emotional, mean (SD)	67.0 (21.8)	67.1 (22.5)	67.0 (22.0)
Social, mean (SD)	81.9 (18.3)	79.5 (19.3)	81.3 (18.6)
School, mean (SD)	66.5 (18.6)	64.9 (19.3)	66.1 (18.8)
Psychosocial, mean (SD)	71.8 (16.5)	70.5 (17.0)	71.5 (16.6)
Psychological functioning (Strengths and Difficulties Questionnaire total difficulties score), mean (SD)	12.5 (5.9)	12.9 (5.8)	12.6 (5.8)
Emotional problems, mean (SD)	3.7 (2.6)	3.8 (2.7)	3.7 (2.6)
Conduct problems, mean (SD)	2.4 (1.7)	2.2 (1.6)	2.3 (1.7)
Hyperactivity, mean (SD)	4.4 (2.3)	4.5 (2.3)	4.4 (2.3)
Peer problems, mean (SD)	2.1 (1.7)	2.4 (1.8)	2.2 (1.8)
Pro-social strengths, mean (SD)	7.4 (2.0)	7.3 (1.8)	7.4 (1.9)
Health related quality of life (CHU9D measure), mean (SD)	0.84 (0.12)	0.82 (0.12)	0.83 (0.12)
Staff health related quality of life (SF-6D), mean (SD)	0.76 (0.12)	0.75 (0.13)	0.75 (0.13)

Primary outcomes (binary)^a	Intervention^b (1057 students)	Control (369 students)	Overall^b (1426 students)
Secondary outcomes (binary)			
Sexual harassment (often or occasional – school or elsewhere), n (%)	104 (9.8)	31 (8.4)	135 (9.5)
Use of primary care, accident & emergency, or other health service in past year, n (%)	695 (65.8)	255 (69.1)	950 (66.6)
Contact with police in past year	187 (17.7)	69 (18.7)	256 (18.0)

^a Denominators are based on the full sample of participants.

^b One intervention school did not participate in student baseline surveys. Intervention arm data are for the three intervention schools that did participate in student baseline surveys. Overall pilot data are for the five schools that participated in student baseline surveys.

^c DRV frequency is measured as the mean of participants' mean response scores (Never=0; Rarely=1; Sometimes=3; Often=4).

Outcome Measures

Primary outcome measures

Outcome measure		Question		Responses	Source	Variable
DRV (Safe Dates)	Psychological victimisation	<p><u>At baseline:</u> How often has anyone that you have ever gone out with done the following things to you? They can refer to things that have happened face-to-face or through social media.</p> <p><u>At follow-up:</u> The following questions ask you about things that have happened to you within the last 12 months with anyone you have gone out with (dated).</p> <p>They can refer to things that have happened face-to-face or through social media.</p> <p>When answering these questions, please tick the box that best shows how often these things have happened to you in the last 12 months (so, since [MM] YYYY). As a guide, use the following scale:</p> <p>Never: this has not happened at all in the last 12 months. Rarely: this has happened about 1–2 times in the last 12 months. Sometimes: this has happened 3–5 times in the last 12 months. Often: this has happened 6 times or more in the last 12 months.</p> <p>How often has any person that you have gone out with done the following things to you in the last 12 months (so, since [MM] YYYY)?</p>	Damaged something that belonged to me	Never Rarely Sometimes Often	Adapted Safe Dates measure	<p><u>Binary:</u> Any (yes/no)</p> <p><u>Frequency:</u> Possible scores range from 0-3, with higher scores indicating more DRV (mean item response score among 14 items each scored 0-3)</p>
			Said things to hurt my feelings on purpose			
			Insulted me in front of others			
			Threw something at me but missed			
			Would not let me do things with other people			
			Threatened to start seeing someone else			
			Told me I could not talk to someone			
			Started to hit me but stopped			
			Did something just to make me jealous			
			Blamed me for bad things they did			
			Threatened to hurt me			
			Made me describe where I was every minute of the day			
			Brought up something from the past to hurt me			
			Insulted my looks			

Outcome measure		Question		Responses	Source	Variable
		Only include it when that person did it to you first. In other words, don't count it if they did it to you in self-defence.				
	Physical victimisation	<p><u>Baseline:</u> How many times has any person that you have ever gone out with ever done the following things to you? Only include it when that person did it to you first. In other words, don't count it if they did it to you in self-defence.</p> <p><u>Follow-up:</u> (instructions as for "Psychological victimisation" above)</p>	Scratched me			<p><u>Binary:</u> Any (yes/no)</p> <p><u>Frequency:</u> Possible scores range from 0-3, with higher scores indicating more DRV (mean item response score among 15 items each scored 0-3)</p>
			Slapped me			
			Physically twisted my arm			
			Slammed me or held me against a wall			
			Kicked me			
			Bent my fingers			
			Bit me hard			
			Tried to choke me			
			Pushed, grabbed, or shoved me			
			Threw something at me that hit me			
			Burned me			
			Hit me with a fist			
			Hit me with something hard			
			Beat me up			
			Attacked me with a knife			
	Sexual victimisation	The following questions ask you about things that have happened to you within the last 12 months with anyone you have gone out with (dated). They can refer to things that have happened face-to-face or through social media. When answering these questions, please tick the box that best shows how often these things have happened to you in the last 12 months (so, since [MM] YYYY). As a guide, use the following scale:	Forced me to have sex	Never Rarely Sometimes Often Prefer not to say		<p><u>Binary:</u> Any (yes/no)</p> <p><u>Frequency:</u> Possible scores range from 0-3, with higher scores indicating more DRV (mean</p>

Outcome measure		Question		Responses	Source	Variable
		<p>Never: this has not happened at all in the last 12 months.</p> <p>Rarely: this has happened about 1-2 times in the last 12 months.</p> <p>Sometimes: this has happened 3-5 times in the last 12 months.</p> <p>Often: this has happened 6 times or more in the last 12 months.</p>	Forced me to do other sexual things that I did not want to do			item response score among 2 items each scored 0-3)
	Psychological perpetration	<p><u>Baseline:</u> How often have you done the following things to anyone that you have ever gone out with? They can refer to things that have happened face-to-face or through social media.</p> <p><u>Follow-up:</u> The following questions ask you about things that you have done within the last 12 months to anyone you have gone out with (dated). They can refer to things that have happened face-to-face or through social media. When answering these questions, please tick the box that best shows how often you have done these things in the last 12 months (so, since [MM] YYYY). As a guide, use the following scale:</p> <p>Never: this has not happened at all in the last 12 months.</p> <p>Rarely: this has happened about 1-2 times in the last 12 months.</p> <p>Sometimes: this has happened 3-5 times in the last 12 months.</p> <p>Often: this has happened 6 times or more in the last 12 months.</p> <p>How often the last 12 months (so, since [MM] YYYY) have you done the following things to any person</p>	<p>Damaged something that belonged to them</p> <p>Said things to hurt their feelings on purpose</p> <p>Insulted them in front of others</p> <p>Threw something at them but missed</p> <p>Would not let them do things with other people</p> <p>Threatened to start seeing someone else</p> <p>Told them they could not talk to someone</p> <p>Started to hit them but stopped</p> <p>Did something just to make them jealous</p> <p>Blamed them for bad things I did</p> <p>Threatened to hurt them</p> <p>Made them describe where they were every minute of the day</p> <p>Brought up something from the past to hurt them</p> <p>Insulted their looks</p>	<p>Never</p> <p>Rarely</p> <p>Sometimes</p> <p>Often</p>		<p><u>Binary:</u> Any (yes/no)</p> <p><u>Frequency:</u> Possible scores range from 0-3, with higher scores indicating more DRV (mean item response score among 14 items each scored 0-3)</p>

Outcome measure		Question		Responses	Source	Variable
		that you have gone out with? Only include when you did it to that person first. In other words, don't count it if you did it in self-defence.				
	Physical perpetration	<p><u>Baseline:</u> How many times have you ever done the following things to any person that you have ever gone out with? Only include when you did it to him/her first. In other words, don't count it if you did it in self-defence.</p> <p><u>Follow-up:</u> (instructions as for "Psychological perpetration" above)</p>	Scratched them			<p><u>Binary:</u> Any (yes/no)</p> <p><u>Frequency:</u> Possible scores range from 0-3, with higher scores indicating more DRV (mean item response score among 15 items each scored 0-3)</p>
			Slapped them			
			Physically twisted their arm			
			Slammed them or held them against a wall			
			Kicked them			
			Bent their fingers			
			Bit them hard			
			Tried to choke them			
			Pushed, grabbed, or shoved them			
			Threw something at them that hit them			
			Burned them			
			Hit them with a fist			
			Hit them with something hard			
			Beat them up			
			Attacked them with a knife			
	Sexual perpetration	The following questions ask you about things that you have done within the last 12 months to anyone you have gone out with (dated). They can refer to things that have happened face-to-face or through social media. When answering these questions, please tick the box that best shows how often you have done these things in the last 12 months (so, since [MM] YYYY). As a guide, use the following scale:	Forced them to have sex	Never Rarely Sometimes Often Prefer not to say		<p><u>Binary:</u> Any (yes/no)</p> <p><u>Frequency:</u> Possible scores range from 0-3, with higher scores indicating more DRV (mean</p>

Outcome measure		Question	Responses	Source	Variable	
		Never: this has not happened at all in the last 12 months. Rarely: this has happened about 1-2 times in the last 12 months. Sometimes: this has happened 3-5 times in the last 12 months. Often: this has happened 6 times or more in the last 12 months.	Forced them to do other sexual things that they did not want to do		item response score among 2 items each scored 0-3)	
DRV (CADRI-s)	Non-sexual victimisation	<u>Baseline:</u> The following questions ask you about things that have happened to you within the last 12 months with one or more partners (boyfriends or girlfriends) in a casual or serious relationship. They can refer to things that have happened face-to-face or through social media. When you answer each of these questions, please tick the box that best shows how often these things have happened to you in the last 12 months (so, since [MM] YYYY). As a guide, use the following scale: Never: this has not happened at all in any of your relationships with a boyfriend or girlfriend in the last 12 months. Rarely: this has happened about 1-2 times in any of your relationships with a boyfriend or girlfriend in the last 12 months. Sometimes: this has happened 3-5 times in any of your relationships with a boyfriend or girlfriend in the last 12 months. Often: this has happened 6 times or more in any of your relationships with a boyfriend or girlfriend in the last 12 months. <u>Follow-up:</u> (Instructions similar to above but slightly simplified; see Appendix 11, Student follow-up	They spoke to me in a hostile or mean tone of voice.	Never Rarely Sometimes Often	Adapted CADRI-s	<u>Binary:</u> Any (yes/no) <u>Frequency:</u> Possible scores range from 0-3, with higher scores indicating more DRV (mean item response score among 9 items each scored 0-3)
			They said insulting things to me.			
			They said things to my friends to try and turn them against me.			
			They kicked, hit, or punched me.			
			They slapped me or pulled my hair.			
			They threatened to hurt me.			
			They spread rumours about me.			
			They kept track of who I was with and where I was.			
			They accused me of flirting with someone else.			

Outcome measure		Question		Responses	Source	Variable
		<i>survey)</i>				
	Sexual victimisation	<p>The following questions ask you about things that have happened to you within the last 12 months with a boyfriend or girlfriend (in a casual or serious relationship). They can refer to things that have happened face-to-face or through social media. When you answer each of these questions, please tick the box that best shows how often these things have happened to you in the last 12 months (so, since [MM] YYYY). As a guide, use the following scale:</p> <p>Never: this has not happened at all in the last 12 months. Rarely: this has happened about 1-2 times in the last 12 months. Sometimes: this has happened 3-5 times in the last 12 months. Often: this has happened 6 times or more in the last 12 months.</p>	<p>My partner touched me sexually when I didn't want them to.</p> <p>My partner forced me to have sex when I didn't want to.</p> <p>My partner pressured me to send them a naked or semi naked image of myself</p> <p>My partner shared naked or semi-naked images of me without my consent</p>	<p>Never Rarely Sometimes Often Prefer not to say</p>	Adapted CADRI-s	<p><u>Binary:</u> Any (yes/no)</p> <p><u>Frequency:</u> Possible scores range from 0-3, with higher scores indicating more DRV (mean item response score among 4 items each scored 0-3)</p>
	Non-sexual perpetration	<p>The following questions as you about things that you have done within the last 12 months to anyone who is or was your partner (boyfriends or girlfriends) in a casual or serious relationship. They can refer to things that have happened face-to-face or through social media. When answering these questions, check the box that is your best estimate of how often you have done these things in the last 12 months (so, since [MM] YYYY). As a guide, use the following scale:</p> <p>Never: this has not happened at all in any of your</p>	<p>I spoke to them in a hostile or mean tone of voice.</p> <p>I said insulting things to them.</p> <p>I said things to their friends to try and turn them against him/her.</p> <p>I kicked, hit, or punched them.</p> <p>I slapped them or pulled their hair.</p>	<p>Never Rarely Sometimes Often</p>	Adapted CADRI-s	<p><u>Binary:</u> Any (yes/no)</p> <p><u>Frequency:</u> Possible scores range from 0-3, with higher scores indicating more DRV (mean item response score among 9 items each</p>

Outcome measure		Question	Responses	Source	Variable
		<p>relationships with a boyfriend or girlfriend in the last 12 months.</p> <p>Rarely: this has happened about 1–2 times in any of your relationships with a boyfriend or girlfriend in the last 12 months.</p> <p>Sometimes: this has happened 3–5 times in any of your relationships with a boyfriend or girlfriend in the last 12 months.</p> <p>Often: this has happened 6 times or more in any of your relationships with a boyfriend or girlfriend in the last 12 months.</p> <p><u>Follow-up:</u> (Instructions similar to above but slightly simplified; see Appendix 11, Student follow-up survey)</p>	<p>I threatened to hurt them.</p> <p>I spread rumours about them.</p> <p>I kept track of who they were with and where they were.</p> <p>I accused them of flirting with someone else.</p>		scored 0-3)
	Sexual perpetration	<p>The following questions ask you about things that you have done within the last 12 months to a boyfriend or girlfriend (in a casual or serious relationship). They can refer to things that have happened face-to-face or through social media. When answering these questions, please tick the box that best shows how often you have done these things in the last 12 months (so, since [MM] 2017). As a guide, use the following scale:</p> <p>Never: this has not happened at all in the last 12 months.</p> <p>Rarely: this has happened about 1-2 times in the last 12 months.</p> <p>Sometimes: this has happened 3-5 times in the last 12 months.</p> <p>Often: this has happened 6 times or more in the last 12 months.</p>	<p>I touched my partner sexually when they didn't want me to</p> <p>I forced my partner to have sex when they didn't want to</p> <p>I pressured my partner to send me a naked or semi-naked image of her or himself.</p> <p>I shared naked or semi-naked images of my partner without their consent.</p>	<p>Never</p> <p>Rarely</p> <p>Sometimes</p> <p>Often</p> <p>Prefer not to say</p>	<p>Adapted CADRI-s</p> <p>Binary: Any (yes/no)</p> <p>Frequency: Possible scores range from 0-3, with higher scores indicating more DRV (mean item response score among 4 items each scored 0-3)</p>

Secondary outcome measures

Outcome measure	Question	Responses	Source	Variable
Sexual harassment (<u>baseline</u>)	The next question asks about sexual harassment. Sexual harassment is unwanted and unwelcome sexual behaviour (touching, groping etc.) or sexual remarks (wolf whistling etc.), or insulting remarks about sexual behaviour (homophobic name-calling, insulting someone for being or not being sexually active, etc.), whether from partners or anyone else. Sexual harassment is not behaviour that you like or want (for example wanted kissing, touching, or flirting).	How often do you experience sexual harassment? <i>(for students responding Often, Occasionally, or Rarely)</i> How often do you experience sexual harassment at school?	Often Occasionally Rarely Never	Adapted from Hostile Hallways Binary – any (yes/no)
Sexual harassment (<u>follow-up</u>)	The next two questions ask about sexual harassment. Sexual harassment is unwelcome sexual behaviour (e.g., groping), sexual remarks or insulting remarks about sexual behaviour (homophobic name-calling, insulting someone for being or not being sexually active, etc.), whether from partners or anyone else.	How often do you experience sexual harassment at school? How often do you experience sexual harassment in places other than school?	Often Occasionally Rarely Never	Adapted from Hostile Hallways Binary – any (yes/no)
Emotional well-being	Below are some statements about your feelings and thoughts. Please tick the box that best describes your experience of each over the last two weeks.	I've been feeling confident about the future I've been feeling useful I've been feeling relaxed I've been dealing with problems well I've been thinking clearly I've been feeling close to other people I've been able to make up	None of the time Rarely Sometimes Often Always	Short Warwick-Edinburgh Mental Well-Being Scale Possible scores range from 7-35, with higher scores indicating more well-being (total score if all 7 items answered; if <7 items answered, mean of scores)

Outcome measure	Question		Responses	Source	Variable
		my own mind about things			answered multiplied by 7)
Overall quality of life	How much of a problem have these things been for you in the past one month (so, since [MM] YYYY)	It is hard for me to walk more than 50 metres	Never Almost never Sometimes Often Almost always	Paediatric quality of life inventory, version 4.0	Possible scores range from 0-100 for overall measure and for each subscale, with higher scores indicating higher quality of life (for overall measure, mean score if at least 12 items answered; mean score recoding to missing if <12 items answered)
		It is hard for me to run			
		It is hard for me to do sports activity or exercise			
		It is hard for me to lift something heavy			
		It is hard for me to take a bath or shower by myself			
		It is hard for me to do chores around the house			
		I hurt or ache			
		I have low energy			
		I feel afraid or scared			
		I feel sad			
		I feel angry			
		I have trouble sleeping			
		I worry about what will happen to me			
		I have trouble getting along with other young people			
		Other young people do not want to be my friend			
		Other young people tease me			
		I cannot do things that other young people my age can do			
		It is hard to keep up when I play with other young people			
		It is hard to pay attention in class			
		I forget things			

Outcome measure	Question	Responses	Source	Variable
		I have trouble keeping up with my schoolwork I miss school because of not feeling well I miss school to go to the doctor or hospital		
Strengths, difficulties and anger management	For each of the following items, please mark either the box for “Not true,” “Somewhat true” or “Definitely true”. Please answer them all as best you can even if you are not absolutely sure or they seem odd questions! Please give your answers on the basis of how things have been for you over the last six months (so, since [MM] YYYY).	I try to be nice to other people. I care about their feelings I am restless, I cannot stay still for long I get a lot of headaches I usually share with others (food, games, pens etc.) I get very angry and often lose my temper I am usually on my own. I generally play alone or keep to myself I usually do as I am told I worry a lot I am helpful if someone is hurt, upset or feeling ill I am constantly fidgeting I have one good friend or more I fight a lot. I can make other people do what I want I am often unhappy, down-hearted or tearful Other people my age generally like me I am easily distracted, I find it difficult to concentrate I am nervous in new	Not true Somewhat true Definitely true	Strengths and difficulties questionnaire Possible scores range from 0-40, with higher scores indicating lower functioning

Outcome measure	Question		Responses	Source	Variable
		situations. I easily lose confidence I am kind to younger children I am often accused of lying or cheating Other children or young people pick on me or bully me I often volunteer to help others (parents, teachers, children) I think before I do things I take things that are not mine from home, school or elsewhere I get on better with adults than with people my own age I have many fears, I am easily scared I finish the work I'm doing. My attention is good			
Health-related quality of life (students)	For each question, read all the choices and decide which one is most like you today. Then put a tick in the box next to it.	How worried are you today? How sad are you today? Are you in pain today?	I don't feel worried today I feel a little bit worried today I feel a bit worried today I feel quite worried today I feel very worried today I don't feel sad today I feel a little bit sad today I feel a bit sad today I feel quite sad today I feel very sad today I don't have any pain	Child health utility 9D	Possible scores range from 0-1, with higher scores indicating higher health-related quality of life

Outcome measure	Question		Responses	Source	Variable
			<p>today</p> <p>I have a little bit of pain today</p> <p>I have a bit of pain today</p> <p>I have quite a lot of pain today</p> <p>I have a lot of pain today</p>		
		How tired are you today?	<p>I don't feel tired today</p> <p>I feel a little bit tired today</p> <p>I feel a bit tired today</p> <p>I feel quite tired today</p> <p>I feel very tired today</p>		
		How annoyed are you today?	<p>I don't feel annoyed today</p> <p>I feel a little bit annoyed today</p> <p>I feel a bit annoyed today</p> <p>I feel quite annoyed today</p> <p>I feel very annoyed today</p>		
		How well did you sleep last night?	<p>Last night I had no problems sleeping</p> <p>Last night I had a few problems sleeping</p> <p>Last night I had some problems sleeping</p> <p>Last night I had many problems sleeping</p> <p>Last night I couldn't sleep at all</p>		
		Thinking about your school work/homework today (such as reading and writing)	<p>I have no problems with my schoolwork/homework today</p> <p>I have a few problems with my</p>		

Outcome measure	Question		Responses	Source	Variable
			<p>schoolwork/homework today</p> <p>I have some problems with my schoolwork/homework today</p> <p>I have many problems with my schoolwork/homework today</p> <p>I can't do my schoolwork/homework today</p>		
		Thinking about your daily routine (things like eating, having a bath/shower)	<p>I have no problems with my daily routine today</p> <p>I have a few problems with my daily routine today</p> <p>I have some problems with my daily routine today</p> <p>I have many problems with my daily routine today</p> <p>I can't do my daily routine today</p>		
		Are you able to join in activities like playing out with your friends and doing sports?	<p>I can join in with any activities today</p> <p>I can join in with most activities today</p> <p>I can join in with some activities today</p> <p>I can join in with a few activities today</p> <p>I can join in with no</p>		

Outcome measure	Question		Responses	Source	Variable
			activities today		
Health-related quality of life (staff)	In general, would you say your health is:		Excellent Very good Good Fair Poor	Short Form-12	Possible scores range from 0-1, with higher scores indicating higher health-related quality of life
	The following questions are about activities you might do during a typical day. Does your health now limit you in these activities? If so, how much?	Moderate activities, such as moving a table, pushing a vacuum cleaner, bowling, or playing golf	Yes, limited a lot Yes, limited a little No, not limited at all		
		Climbing several flights of stairs			
	During the past 4 weeks, how much of the time have you had any of the following problems with your work or other regular daily activities as a result of your physical health?	Accomplished less than you would like	All of the time Most of the time Some of the time A little of the time None of the time		
		Did work or other activities less carefully than usual			
	During the past 4 weeks, how much did pain interfere with your normal work (including both work outside the home and housework)?		Not at all A little bit Moderately Quite a bit Extremely		
	These questions are about how you feel and how things have been with you during the past 4 weeks. For each question, please give the one answer that comes closest to the way you have been feeling. How much of the time during the past 4 weeks...	Have you felt calm and peaceful	All of the time Most of the time Some of the time A little of the time None of the time		
		Did you have a lot of energy?			
		Have you felt downhearted and low?			
During the past 4 weeks, how much of the time has your physical health or emotional problems interfered with your social activities (like visiting with friends, relatives, etc.)?		All of the time Most of the time Some of the time			

Outcome measure	Question	Responses	Source	Variable
		A little of the time None of the time		
Sexual debut (<i>boys</i>)	Have you ever had vaginal sex (penis inserted into vagina) with a female?	Yes, once Yes, more than once	Adapted RIPPLE measure	Binary – ever had vaginal and/or male/male anal sex (yes/no)
	Have you ever had anal sex (penis inserted into anus, rectum, or bum) with a male?	No Prefer not to say	Adapted SHARE measure	
Sexual debut (<i>girls</i>)	Have you ever had vaginal sex (penis inserted into vagina) with a male?	Yes, once Yes, more than once No Prefer not to say	Adapted RIPPLE measure	Binary – ever had vaginal sex with a male (yes/no)
Use of contraception/ protection at first sex (<i>boys</i>)	When (<i>or, for those reporting this type of sex more than once: The first time</i>) you had vaginal sex, did you or your partner use any of the following?	Condom The pill The emergency contraception pill ('morning after' pill) Contraception injection / implant Other protection Not sure Didn't use anything Prefer not to say	Adapted RIPPLE measure	Binary – used any type of listed contraception/ protection at first vaginal and/or anal male/male sex (yes/no)
	When (<i>or, for those reporting this type of sex more than once: The first time</i>) you had anal sex with a male, did you or your partner use any of the following?	Condom Other protection Not sure Didn't use anything Prefer not to say		
Use of contraception at first sex (<i>girls</i>)	When (<i>or, for those reporting this type of sex more than once: The first time</i>) you had vaginal sex with a male, did you or your partner use any of the following?	Condom The pill The emergency contraception pill ('morning after' pill) Contraception injection / implant Other protection Not sure	Adapted RIPPLE measure	

Outcome measure	Question	Responses	Source	Variable
		Didn't use anything Prefer not to say		
Use of contraception/ protection at last sex (<i>boys</i>)	The last time you had vaginal sex, did you or your partner use any of the following?	Condom The pill The emergency contraception pill ('morning after' pill) Contraception injection / implant Other protection Not sure Didn't use anything Prefer not to say	Adapted RIPPLE measure	
	The last time you had anal sex with a male, did you or your partner use any of the following?	Condom Other protection Not sure Didn't use anything Prefer not to say	Adapted SHARE measure	
Use of contraception at last sex (<i>girls</i>)	The <i>LAST TIME</i> you had vaginal sex with a male, did you or your partner use any of the following?	Condom The pill The emergency contraception pill ('morning after' pill) Contraception injection / implant Other protection Not sure Didn't use anything Prefer not to say	Adapted RIPPLE measure	
Number of partners (<i>boys</i>)	About how many different females have you ever had vaginal sex with?	— Prefer not to say	Adapted RIPPLE measure	Continuous (for boys reporting both vaginal and
	About how many different males have you ever had anal sex with?			
Number of partners	About how many different males have you ever had vaginal sex with?			

Outcome measure	Question	Responses	Source	Variable
<i>(girls)</i>				male/male anal sex, total number of partners reported for each type)
Initiation of pregnancy <i>(boys)</i>	Have you ever got someone pregnant?	Yes No Not sure Prefer not to say	Adapted RIPPLE measure	Binary – yes/any other response
Pregnancy <i>(girls)</i>	Have you ever been pregnant?	Yes, in the past Yes, I am now No, never Prefer not to say	RIPPLE measure	Binary – yes/any other response
Unintended pregnancy <i>(boys)</i>	Think about the most recent time you got someone pregnant: Did you mean to get them pregnant?	Yes No Not sure Prefer not to say	New	Binary – yes/any other response
Unintended pregnancy <i>(girls)</i>	Think about your most recent pregnancy. Did you mean to get pregnant?	Yes No Not sure Prefer not to say	New	Binary – yes/any other response
Sexually transmitted infections	Have you ever been told by a doctor or nurse that you had any of the following sexually transmitted infections: chlamydia, genital warts, genital herpes or gonorrhoea?	Yes No Not sure Prefer not to say	Adapted RIPPLE measure	Binary – yes/any other response

Effects on primary outcomes at follow-up – binary

Binary primary outcome measure	Control, N (%) (369 students)	Intervention, N (%) (1,057 students)	95% CI ^a for unadjusted estimate (intervention vs. control)	95% CI ^a for adjusted estimate (intervention vs. control) ^b
DRV victimisation in past 12 months (Safe Dates)	127 (36.1)	401 (34.1)	0.64 to 1.34	0.78 to 1.49
Psychological abuse	112 (31.8)	361 (30.7)	0.66 to 1.40	0.80 to 1.56
Physical violence	68 (19.3)	228 (19.4)	0.68 to 1.50	0.78 to 1.76
Sexual violence	12 (3.4)	62 (5.3)	0.78 to 3.15	0.63 to 3.23
DRV victimisation in past 12 months (CADRI-s)	122 (34.7)	397 (33.7)	0.63 to 1.51	0.72 to 1.47
DRV perpetration in past 12 months (Safe Dates)	89 (25.3)	290 (24.6)	0.73 to 1.27	0.74 to 1.44
Psychological abuse	76 (21.6)	252 (21.4)	0.74 to 1.33	0.75 to 1.51
Physical violence	43 (12.2)	155 (13.2)	0.76 to 1.56	0.76 to 1.79
Sexual violence	5 (1.4)	20 (1.7)	0.45 to 3.22	0.28 to 3.07
DRV perpetration in past 12 months (CADRI-s)	102 (29.0)	322 (27.4)	0.64 to 1.36	0.71 to 1.45

^a CI = confidence interval

^b Adjusted by IDACI and value-added attainment (as measured by progress 8 score).

Effects on secondary outcomes at follow-up – continuous measures

	Control Mean (SE) (369 students)	Intervention Mean (SE) (1057 students)	95% CI for unadjusted estimate (intervention vs. control)	95% CI for adjusted estimate (intervention vs. control)^a
Frequency of DRV victimisation in past 12 months (Safe Dates) ^{b,c}	0.10 (0.003)	0.13 (0.02)	-0.02 to 0.08	-0.02 to 0.10
Psychological abuse ^{b,d}	0.16 (0.01)	0.17 (0.02)	-0.05 to 0.09	-0.06 to 0.11
Physical violence ^{b,d}	0.06 (0.004)	0.09 (0.02)	-0.02 to 0.09	-0.01 to 0.11
Sexual violence ^{b,c}	0.06 (0.01)	0.13 (0.03)	-0.02 to 0.16	-0.02 to 0.18
Frequency of DRV victimisation in past 12 months (CADRI-s) ^{b,e}	0.17 (0.01)	0.18 (0.02)	-0.05 to 0.08	-0.04 to 0.11
Frequency of DRV perpetration in past 12 months (Safe Dates) ^{b,d}	0.04 (0.005)	0.06 (0.01)	-0.02 to 0.06	-0.01 to 0.07
Psychological abuse ^{b,d}	0.06 (0.003)	0.08 (0.02)	-0.02 to 0.07	-0.01 to 0.08
Physical violence ^{b,d}	0.03 (0.01)	0.05 (0.01)	-0.02 to 0.06	-0.01 to 0.07
Sexual violence ^{b,c}	0.02 (0.01)	0.03 (0.01)	-0.02 to 0.04	-0.02 to 0.05
Frequency of DRV perpetration in past 12 months (CADRI-s) ^{b,e}	0.08 (0.01)	0.10 (0.01)	-0.03 to 0.05	-0.03 to 0.06
Mental wellbeing (Short Warwick-Edinburgh Mental Well-Being Scale)	23.2 (0.8)	23.1 (0.4)	-1.9 to 1.5	-1.2 to 2.6
Quality of life (Paediatric Quality of Life Inventory version 4.0)	72.7 (2.0)	74.4 (0.8)	-1.9 to 4.7	-1.9 to 6.4
Psychological functioning (Strengths and Difficulties Questionnaire)	13.3 (0.8)	13.0 (0.5)	-1.8 to 1.8	-2.9 to 1.3
Number of sexual partners	0.2 (0.01)	0.3 (0.06)	-0.1 to 0.3	-0.1 to 0.3
School attendance (half-days absent per student among years 9 and 10) ^f	58.0 (3.0)	16.9 (7.5)	-72.7 to -9.3	-103.6 to 59.7

	Control Mean (SE) (369 students)	Intervention Mean (SE) (1057 students)	95% CI for unadjusted estimate (intervention vs. control)	95% CI for adjusted estimate (intervention vs. control)^a
Health related quality of life (Child Health Utility 9D measure)	0.83 (0.02)	0.84 (0.01)	-0.03 to 0.04	-0.02 to 0.05
Staff health related quality of life (SF-6D)	0.78 (0.02)	0.79 (0.02)	-0.05 to 0.07	-0.07 to 0.10

^a Adjusted by IDACI and value-added attainment (as measured by Progress 8 score).

^b Data for continuous DRV outcome measures based on the subsample of participants who were routed to and provided responses to these survey items

^c Sample includes those reporting a girlfriend/boyfriend or dating someone currently or in the past 12 months and any sexual experience

^d Sample includes those reporting a girlfriend/boyfriend or dating someone currently or in the past 12 months

^e Sample includes those reporting a girlfriend/boyfriend currently or in the past 12 months

^f Denominator for mean calculation based on total number of students registered in the school

Effects on secondary outcomes at follow-up – binary measures^a

Binary primary outcome measure	Control N (%) (369 students)	Intervention N (%) (1,057 students)	95% CI ^b for unadjusted estimate	95% CI ^b for adjusted estimate ^c
Sexual harassment (often or occasional – school or elsewhere)	57 (16.2)	155 (13.2)	0.45 to 1.27	0.57 to 1.27
Pregnancy (girls) ^d	1 (0.6)	8 (1.5)	0.29 to 21.20	0.44 to 43.72
Unintended pregnancy (girls) ^d	0 (0)	0 (0)	-	-
Initiation of pregnancy (boys) ^e	1 (0.3)	7 (0.6)	0.10 to 7.98	0.03 to 5.65
Sexually transmitted infections	4 (1.1)	14 (1.2)	0.32 to 3.13	0.30 to 4.17
Sexual debut ^f	36 (10.2)	164 (13.9)	0.75 to 2.37	0.63 to 2.58
Unprotected first sex	4 (1.1)	29 (2.5)	0.58 to 5.46	0.43 to 5.81
Unprotected last sex among those reporting sex more than once	6 (26.1)	25 (21.7)	0.29 to 2.30	0.23 to 2.96
Use of primary care, accident & emergency, other health service in past year	235 (66.8)	721 (61.3)	0.54 to 1.04	0.68 to 1.26
Contact with police in past year	64 (18.2)	213 (18.1)	0.72 to 1.34	0.67 to 1.42

^a Unless otherwise noted, denominators are all survey respondents.

^b CI = confidence interval

^c Adjusted by IDACI and value-added attainment (as measured by Progress 8 score).

^d Denominator is all girls.

^e Denominator is all boys.

^f Vaginal sex among students reporting heterosexual sexual experience, or anal sex among males reporting sexual experience with males only.

Adverse Events

Serious adverse events^a

Event	Intervention schools				Control schools		Overall
	1	2	3	4	1	2	
Death	0	0	1	1	0	0	2
Hospitalisation	2	11	1	2	0	3	19
Disability	0	3	0	0	0	2	5
Congenital abnormality	0	0	0	0	0	0	0
Life threatening risk	1	0	0	0	0	1	2

^a Data missing from one intervention school not reporting on SAE/SUSARs in the second year of the pilot