

**Appendix**  
**RCT Testing Bystander Effectiveness to Reduce Violence**  
**Coker et al.**

**Appendix Table 1.** Demographic Characteristics of the Student-Level and School-Level Distributions at Baseline by Intervention and Control Schools

School-level baseline characteristics <sup>a</sup>	Average mean (95% CI)	
	Intervention N=13 Schools (N=8,099 students)	Control N=13 Schools (N=8,143 Students)
Sociodemographic factors		
Gender: % Female	54.6 (52.6, 56.5)	54.1 (52.3, 55.9)
Grade: % Freshman	31.1 (27.8, 34.5)	30.3 (28.3, 32.3)
Race: % White	82.5 (72.2, 92.8)	87.2 (80.0, 94.4)
% Free or Reduced Meal	44.3 (37.0, 51.7)	45.5 (38.0, 52.9)
Violence risk characteristics		
% Exclusively attracted to opposite sex	86.3 (84.3, 88.4)	86.7 (85.5, 87.9)
% Currently in a romantic relationship	50.2 (47.8, 52.6)	50.2 (47.2, 53.2)
% Witnessed parental IPV (lifetime)	24.7 (22.9, 26.6)	25.7 (23.9, 27.5)
% Binge drinking in past month	27.0 (24.4, 29.6)	28.2 (25.4, 31.0)
Violence perpetration (at baseline)		
Sexual violence (unwanted sex)	210.6 (139.7, 281.5)	222.6 (156.2, 289.0)
Sexual harassment	610.1 (468.2, 752.0)	602.2 (431.1, 773.4)
Stalking	338.8 (247.4, 430.2)	352.1 (256.7, 447.5)
Physical dating violence	128.9 (92.5, 165.3)	126.6 (86.5, 166.7)
Psychological dating violence	965.5 (748.2, 1182.7)	1,013.5 (765.8, 1,261.3)
Violence victimization (at baseline)		
Sexual violence (unwanted sex)	362.5 (267.0, 457.9)	369.9 (270.8, 468.9)
Sexual harassment	1,613.7 (1,281.5, 1,945.8)	1,606 (1,214.0, 1,998.1)
Stalking	1,008.7 (773.1, 1,244.3)	962.0 (741.7, 1,182.3)
Physical dating violence	218.2 (164.9, 271.6)	217.3 (173.4, 261.3)
Psychological dating violence	2,021.6 (1,591.2, 2,452.0)	2,134.6 (1,713.9, 2,555.4)
Measures of violence effects <sup>c</sup>		
Physically hurt <sup>b,c</sup>	76.6 (52.0, 101.3)	75.6 (53.5, 97.7)
Missed school because of DV or SV <sup>b,c</sup>	49.9 (32.1, 67.8)	52.5 (37.3, 67.8)
Sought help <sup>b,c</sup>	96.4 (65.7, 127.1)	87.7 (65.4, 109.9)

*Note:* All comparisons were made using a two-sample t-test and were not statistically significant.

<sup>a</sup>Student responses were aggregated by school. Values represent school-level averages.

<sup>b</sup>Frequency of victimization events reported by students: response options for all Years for stalking, physical and psychological dating violence were 0, 1-2, 3-5, 6-9, 10+ times and were coded in models as: 0, 1, 3, 6, or 10 times. For sexual harassment, and the three sexual or dating violence effect measures response options changed from 0, 1-2, 3-5, 6+ times at baseline to 0, 1-2, 3-5, 6-9, 10+ times for Y1-Y4. To be consistent across time these Y1-Y4 responses were recoded as 0, 1, 3, 6.

<sup>c</sup>Due to sexual violence or physical dating violence

**Appendix**  
**RCT Testing Bystander Effectiveness to Reduce Violence**  
**Coker et al.**

**Appendix Table 2.** Violence Prevalence Rates (95% CIs) by Condition and by Sex

Form of violence used (Perpetration)	Prevalence rates (%) <sup>a</sup> (95% CIs) for All Students and by Sex and Within Condition (in the 13 Intervention and 13 Control Schools) at Baseline (Year 0)					
	All students		Males		Females	
	Intervention	Control	Intervention	Control	Intervention	Control
Sexual violence used: Yes to any of 3 items	7.00 (6.36, 7.70) <sup>NS</sup>	7.26 (6.74, 7.83)	9.03 (8.10, 10.06) <sup>NS</sup>	9.67 (8.60, 10.86)	5.33 (4.81, 5.91) <sup>NS</sup>	5.24 (4.79, 5.73)
Sexual violence used - Coerced sex: Yes to Item 1	3.00 (2.59, 3.46) <sup>NS</sup>	3.23 (2.78, 3.75)	3.78 (3.03, 4.71) <sup>NS</sup>	4.47 (3.74, 5.35)	2.36 (2.05, 2.71) <sup>NS</sup>	2.17 (1.79, 2.62)
Sexual violence used - Physically forced sex: Yes to Item 2	1.67 (1.33, 2.10) <sup>NS</sup>	1.97 (1.60, 2.43)	2.26 (1.80, 2.84) <sup>NS</sup>	3.08 (2.38, 3.99)	1.16 (0.84, 1.59) <sup>NS</sup>	1.03 (0.82, 1.28)
Sexual violence used - Alcohol or drug facilitated sex: Yes to Item 3		5.41 (4.97, 5.89)	7.15 (6.25, 8.18) <sup>NS</sup>	7.44 (6.45, 8.58)	3.73 (3.19, 4.36) <sup>NS</sup>	3.74 (3.33, 4.20)
Sexual harassment used: Yes to any of 3 items	23.00 (21.76, 24.30) <sup>NS</sup>	21.93 (21.02, 22.88)	28.65 (26.74, 30.71) <sup>NS</sup>	28.63 (27.38, 29.94)	18.40 (17.47, 19.39) <sup>0.003</sup>	16.29 (15.35, 17.29)
Stalking used: Yes to any of 3 items	12.75 (11.85, 13.72) <sup>NS</sup>	13.14 (12.26, 14.08)	12.87 (11.92, 13.91) <sup>NS</sup>	12.89 (11.85, 14.04)	12.73 (11.52, 14.06) <sup>NS</sup>	13.30 (12.15, 14.56)
Psychological dating violence used: Yes to any of 4 items	33.32 (31.29, 35.47) <sup>NS</sup>	34.41 (32.60, 36.33)	25.53 (24.13, 27.01) <sup>NS</sup>	25.49 (23.81, 27.30)	39.79 (36.73, 43.11) <sup>NS</sup>	42.06 (39.35, 44.95)
Physical dating violence used: Yes to 1 item	7.64 (6.52, 8.96) <sup>NS</sup>	7.21 (6.48, 8.01)	3.88 (3.18, 4.74) <sup>NS</sup>	4.09 (3.35, 5.00)	10.77 (9.14, 12.68) <sup>NS</sup>	9.92 (8.84, 11.13)
<b>Experienced (Victimization)</b>						
Sexual violence experienced: Yes to any of 3 items	17.33 (16.27, 18.46) <sup>NS</sup>	18.28 (17.48, 19.11)	12.08 (10.85, 13.45) <sup>NS</sup>	12.80 (11.28, 14.51)	21.63 (20.13, 23.25) <sup>NS</sup>	23.03 (21.14, 25.08)
Sexual violence experienced – Coerced sex: Yes to Item 1	12.57 (11.55, 13.69) <sup>NS</sup>	13.08 (12.35, 13.84)	7.53 (6.53, 8.68) <sup>NS</sup>	7.67 (6.58, 8.93)	16.78 (15.38, 18.30) <sup>NS</sup>	17.72 (16.25, 19.32)
Sexual violence experienced – Physically forced sex: Yes to Item 2	3.76 (3.13, 4.51) <sup>NS</sup>	3.93 (3.56, 4.35)	2.97 (2.27, 3.89) <sup>NS</sup>	3.18 (2.60, 3.90)	4.47 (3.84, 5.19) <sup>NS</sup>	4.59 (3.97, 5.30)
Sexual violence experienced – Alcohol or drug facilitated sex: Yes to Item 3	8.76 (7.90, 9.72) <sup>NS</sup>	8.93 (8.17, 9.77)	7.54 (6.43, 8.84) <sup>NS</sup>	8.25 (7.26, 9.38)	9.76 (8.62, 11.06) <sup>NS</sup>	9.56 (8.15, 11.21)
Sexual harassment experienced: Yes to any of 3 items	55.85 (53.85, 57.93) <sup>NS</sup>	54.47 (53.04, 55.94)	42.96 (40.75, 45.30) <sup>NS</sup>	41.32 (39.57, 43.15)	66.60 (64.17, 69.11) <sup>NS</sup>	65.68 (63.62, 67.80)
Stalking experienced: Yes to any of 3 items	34.97 (33.40, 36.60) <sup>NS</sup>	34.12 (32.72, 35.58)	28.23 (26.54, 30.03) <sup>NS</sup>	26.11 (23.92, 28.50)	40.66 (38.73, 42.69) <sup>NS</sup>	40.97 (39.36, 42.63)
Psychological dating violence experienced: Yes to any of 4 items	45.75 (43.79, 47.80) <sup>NS</sup>	45.94 (44.21, 47.75)	39.66 (37.93, 41.48) <sup>NS</sup>	38.26 (36.28, 40.34)	50.98 (47.98, 54.18) <sup>NS</sup>	52.37 (50.24, 54.60)
Physical dating violence experienced: Yes to 1 item	10.89 (9.94, 11.94) <sup>NS</sup>	10.89 (10.12, 11.71)	10.65 (9.76, 11.62) <sup>NS</sup>	10.53 (9.24, 12.01)	11.10 (9.83, 12.53) <sup>NS</sup>	11.11 (10.23, 12.07)
<b>Measures of violence effect<sup>b</sup></b>						

**Appendix**  
**RCT Testing Bystander Effectiveness to Reduce Violence**  
**Coker et al.**

Physically hurt <sup>b</sup>	4.97 (4.43, 5.58) <sup>NS</sup>	5.11 (4.59, 5.70)	3.27 (2.49, 4.30) <sup>NS</sup>	3.74 (3.08, 4.54)	6.45 (6.01, 6.93) <sup>NS</sup>	6.28 (5.59, 7.06)
Missed school <sup>b</sup>	3.18 (2.63, 3.85) <sup>NS</sup>	3.25 (2.89, 3.65)	2.54 (1.84, 3.50) <sup>NS</sup>	2.72 (2.17, 3.42)	3.72 (3.10, 4.46) <sup>NS</sup>	3.71 (3.29, 4.18)
Sought help <sup>b</sup>	4.24 (3.71, 4.85) <sup>NS</sup>	4.00 (3.61, 4.44)	3.45 (2.73, 4.36) <sup>NS</sup>	3.15 (2.50, 3.98)	4.88 (4.19, 5.68) <sup>NS</sup>	4.74 (4.10, 5.49)

<sup>a</sup>Prevalence rates obtained from GEE analysis with student-level reports of violence form (yes/no for any affirmative response) as outcome, clustered within schools; analyses are conducted by school-level randomization (ITT). Mischievous responders are not included in these analyses.

<sup>b</sup>Due to sexual violence or physical dating violence.

NS, proportions by condition not statistically significantly different at  $p < 0.05$

**Appendix**  
**RCT Testing Bystander Effectiveness to Reduce Violence**  
**Coker et al.**

**Appendix Table 3.** Violence Prevalence Rates by Condition Over Time (Year 0-4) and Rate Ratios (PRR) and 95% CIs for All Students and by Sex

Form of violence used (Perpetration)	Prevalence rates (%) <sup>a</sup>		Prevalence rate ratio (95% CI)		
	Intervention	Control	Students	Males	Females
Sexual violence used: Yes to any of 3 items					
Year 0	7.00	7.26	0.96 (0.85, 1.09)	0.93 (0.80, 1.10)	1.02 (0.89, 1.17)
Year 1	7.40	6.61	1.12 (0.96, 1.30)	1.22 (1.02, 1.45)	0.96 (0.76, 1.22)
Year 2	7.22	7.67	0.94 (0.81, 1.10)	0.88 (0.71, 1.11)	1.01 (0.83, 1.24)
Year 3	5.28	6.33	<b>0.83 (0.70, 0.99)*</b>	0.87 (0.70, 1.08)	<b>0.78 (0.61, 0.99)*</b>
Year 4	4.97	6.28	<b>0.79 (0.67, 0.94)**</b>	0.83 (0.66, 1.05)	<b>0.73 (0.57, 0.94)**</b>
Sexual violence used - Coerced sex: Yes to Item 1					
Year 0	3.00	3.23	0.93 (0.75, 1.14)	0.84 (0.64, 1.12)	1.09 (0.86, 1.38)
Year 1	3.32	2.74	<b>1.21 (1.00, 1.48)*</b>	<b>1.28 (1.00, 1.62)*</b>	1.10 (0.79, 1.52)
Year 2	3.51	3.43	1.02 (0.85, 1.24)	0.95 (0.75, 1.21)	1.17 (0.86, 1.58)
Year 3	2.59	2.90	0.89 (0.71, 1.13)	0.90 (0.65, 1.23)	0.90 (0.63, 1.29)
Year 4	2.67	3.16	0.85 (0.66, 1.08)	0.83 (0.60, 1.14)	0.90 (0.66, 1.23)
Sexual violence used - Physically forced sex: Yes to Item 2					
Year 0	1.67	1.97	0.85 (0.62, 1.16)	0.73 (0.52, 1.04)	1.13 (0.77, 1.66)
Year 1	2.48	1.82	<b>1.36 (1.02, 1.83)*</b>	<b>1.51 (1.05, 2.17)**</b>	0.99 (0.70, 1.41)
Year 2	2.52	2.51	1.00 (0.78, 1.30)	0.89 (0.66, 1.20)	1.25 (0.85, 1.84)
Year 3	1.70	2.35	0.73 (0.51, 1.04)	0.79 (0.50, 1.23)	0.66 (0.39, 1.10)
Year 4	2.20	2.76	0.80 (0.57, 1.11)	0.79 (0.54, 1.16)	0.85 (0.54, 1.33)
Sexual violence used - Alcohol or drug facilitated sex: Yes to Item 3					
Year 0	5.28	5.41	0.98 (0.84, 1.14)	0.96 (0.79, 1.17)	1.00 (0.82, 1.21)
Year 1	5.88	5.35	1.10 (0.92, 1.31)	<b>1.22 (1.00, 1.50)*</b>	0.91 (0.70, 1.18)
Year 2	5.80	6.01	0.97 (0.81, 1.15)	0.92 (0.73, 1.17)	1.02 (0.82, 1.26)
Year 3	3.98	5.08	<b>0.78 (0.65, 0.94)**</b>	0.84 (0.66, 1.06)	<b>0.71 (0.54, 0.92)**</b>
Year 4	3.90	5.03	<b>0.77 (0.63, 0.95)**</b>	0.80 (0.62, 1.04)	<b>0.72 (0.55, 0.95)**</b>
Sexual harassment used: Yes to any of 3 items					
Year 0	23.00	21.93	1.05 (0.98, 1.12)	1.00 (0.92, 1.09)	<b>1.13 (1.04, 1.22)*</b>
Year 1	19.28	18.59	1.04 (0.95, 1.13)	1.02 (0.93, 1.13)	1.04 (0.89, 1.22)
Year 2	17.46	18.34	0.95 (0.87, 1.05)	1.00 (0.89, 1.13)	0.88 (0.76, 1.01)
Year 3	14.27	17.61	<b>0.81 (0.70, 0.94)*</b>	<b>0.84 (0.74, 0.96)*</b>	<b>0.77 (0.64, 0.94)**</b>

**Appendix**  
**RCT Testing Bystander Effectiveness to Reduce Violence**  
**Coker et al.**

Year 4	15.21	16.97	<b>0.90 (0.80, 1.00)*</b>	0.92 (0.81, 1.06)	0.86 (0.72, 1.02)
Stalking used: Yes to any of 3 items					
Year 0	12.75	13.14	0.97 (0.88, 1.07)	1.00 (0.89, 1.12)	0.96 (0.84, 1.09)
Year 1	10.99	10.36	1.06 (0.94, 1.19)	1.07 (0.90, 1.27)	1.03 (0.89, 1.19)
Year 2	10.45	11.04	0.95 (0.84, 1.06)	0.83 (0.71, 0.98)	1.03 (0.87, 1.21)
Year 3	8.18	10.57	<b>0.77 (0.69, 0.87)**</b>	<b>0.82 (0.66, 1.00)*</b>	<b>0.73 (0.64, 0.84)**</b>
Year 4	8.69	9.89	<b>0.88 (0.80, 0.97)**</b>	<b>0.85 (0.74, 0.98)*</b>	0.88 (0.75, 1.02)
Psychological dating violence used: Yes to any of 4 items					
Year 0	33.32	34.41	0.97 (0.89, 1.05)	1.00 (0.92, 1.09)	0.95 (0.85, 1.05)
Year 1	32.58	31.34	1.04 (0.95, 1.14)	0.99 (0.87, 1.12)	1.06 (0.96, 1.17)
Year 2	29.97	31.04	0.97 (0.88, 1.06)	0.91 (0.77, 1.08)	0.99 (0.89, 1.10)
Year 3	25.19	28.28	<b>0.89 (0.80, 0.99)*</b>	<b>0.83 (0.70, 0.98)*</b>	0.92 (0.82, 1.02)
Year 4	25.59	28.91	<b>0.89 (0.79, 1.00)*</b>	0.89 (0.74, 1.08)	<b>0.87 (0.77, 0.98)*</b>
Physical dating violence used: Yes to 1 item					
Year 0	7.64	7.21	1.06 (0.88, 1.28)	0.95 (0.71, 1.26)	1.09 (0.89, 1.33)
Year 1	8.19	6.44	<b>1.27 (1.06, 1.52)**</b>	<b>1.29 (1.01, 1.64)*</b>	<b>1.25 (1.02, 1.53)*</b>
Year 2	7.10	7.04	1.01 (0.86, 1.18)	0.85 (0.71, 1.02)	1.09 (0.89, 1.34)
Year 3	4.88	6.52	<b>0.75 (0.65, 0.87)**</b>	<b>0.71 (0.51, 0.99)*</b>	<b>0.77 (0.63, 0.94)**</b>
Year 4	5.25	6.03	0.87 (0.72, 1.05)	0.95 (0.70, 1.27)	0.84 (0.68, 1.05)
<b>Form of violence experienced (Victimization)</b>	<b>Mean %<sup>a</sup></b>		<b>Rate ratio [RR] (95% CI)</b>		
	<b>Intervention</b>	<b>Control</b>	<b>All Students</b>	<b>Male</b>	<b>Female</b>
Sexual violence experienced: Yes to any of 3 items					
Year 0	17.33	18.28	0.95 (0.88, 1.02)	0.94 (0.80, 1.11)	0.94 (0.84, 1.05)
Year 1	17.40	16.48	1.06 (0.97, 1.15)	1.11 (0.92, 1.34)	1.02 (0.93, 1.13)
Year 2	16.38	17.87	0.92 (0.84, 1.00)	0.92 (0.75, 1.13)	0.91 (0.81, 1.03)
Year 3	13.42	15.40	<b>0.87 (0.80, 0.95)**</b>	<b>0.78 (0.63, 0.96)**</b>	<b>0.90 (0.83, 0.99)*</b>
Year 4	13.20	14.94	<b>0.88 (0.78, 1.00)*</b>	0.91 (0.75, 1.12)	<b>0.86 (0.74, 1.00)*</b>
Sexual violence experienced - Coerced sex: Yes to Item 1					
Year 0	12.57	13.08	0.96 (0.87, 1.07)	0.98 (0.80, 1.21)	0.95 (0.84, 1.07)
Year 1	12.17	11.86	1.03 (0.93, 1.13)	1.05 (0.84, 1.31)	1.02 (0.90, 1.15)
Year 2	11.48	12.93	<b>0.89 (0.79, 0.99)*</b>	0.87 (0.69, 1.11)	0.90 (0.77, 1.04)
Year 3	9.57	11.31	<b>0.85 (0.76, 0.94)**</b>	<b>0.77 (0.60, 0.99)*</b>	<b>0.87 (0.78, 0.97)*</b>

**Appendix**  
**RCT Testing Bystander Effectiveness to Reduce Violence**  
**Coker et al.**

Year 4	9.49	10.54	0.90 (0.78, 1.04)	0.88 (0.67, 1.15)	0.90 (0.75, 1.07)
Sexual violence experienced - Physically forced sex: Yes to Item 2					
Year 0	3.76	3.93	0.95 (0.77, 1.18)	0.93 (0.67, 1.31)	0.97 (0.79, 1.20)
Year 1	4.91	4.31	1.14 (0.93, 1.40)	1.26 (0.90, 1.75)	1.05 (0.84, 1.31)
Year 2	4.80	4.82	1.00 (0.84, 1.18)	0.97 (0.71, 1.31)	1.03 (0.85, 1.26)
Year 3	3.50	4.66	<b>0.75 (0.63, 0.89)**</b>	<b>0.67 (0.49, 0.93)**</b>	<b>0.81 (0.67, 0.98)*</b>
Year 4	3.97	4.23	0.94 (0.75, 1.18)	0.97 (0.68, 1.40)	0.90 (0.71, 1.13)
Sexual violence experienced - Alcohol or drug facilitated sex: Yes to Item 3					
Year 0	8.76	8.93	0.98 (0.85, 1.13)	0.91 (0.74, 1.12)	1.02 (0.83, 1.25)
Year 1	8.83	7.92	1.12 (0.97, 1.28)	1.15 (0.95, 1.39)	1.07 (0.89, 1.30)
Year 2	8.52	8.85	0.96 (0.82, 1.12)	0.97 (0.78, 1.19)	0.95 (0.77, 1.18)
Year 3	6.20	7.70	<b>0.81 (0.69, 0.95)**</b>	<b>0.77 (0.60, 0.99)*</b>	<b>0.82 (0.67, 0.98)*</b>
Year 4	6.62	7.32	0.90 (0.76, 1.08)	0.92 (0.72, 1.17)	0.87 (0.71, 1.06)
Sexual harassment experienced: Yes to any of 3 items					
Year 0	55.85	54.47	1.03 (0.98, 1.07)	1.04 (0.97, 1.11)	1.01 (0.97, 1.06)
Year 1	53.66	51.62	<b>1.04 (1.00, 1.08)*</b>	1.02 (0.93, 1.11)	<b>1.06 (1.00, 1.11)*</b>
Year 2	51.18	50.27	1.02 (0.97, 1.07)	1.04 (0.94, 1.16)	1.01 (0.95, 1.07)
Year 3	46.14	50.46	<b>0.91 (0.86, 0.97)**</b>	<b>0.84 (0.72, 0.96)**</b>	0.95 (0.89, 1.02)
Year 4	46.44	48.92	<b>0.95 (0.90, 1.00)*</b>	0.95 (0.85, 1.08)	0.94 (0.88, 1.01)
Stalking experienced: Yes to any of 3 items					
Year 0	34.97	34.12	1.02 (0.96, 1.09)	1.08 (0.97, 1.20)	0.99 (0.93, 1.06)
Year 1	36.39	33.37	<b>1.09 (1.03, 1.15)**</b>	1.09 (0.98, 1.21)	<b>1.09 (1.03, 1.15)**</b>
Year 2	33.68	33.28	1.01 (0.95, 1.07)	1.00 (0.89, 1.12)	1.02 (0.95, 1.09)
Year 3	29.87	32.82	<b>0.91 (0.85, 0.97)**</b>	0.93 (0.82, 1.04)	<b>0.91 (0.84, 0.98)**</b>
Year 4	30.40	31.76	0.96 (0.91, 1.01)	0.95 (0.86, 1.05)	0.95 (0.88, 1.03)
Psychological dating violence experienced: Yes to any of 4 items					
Year 0	45.75	45.94	1.00 (0.94, 1.06)	1.04 (0.97, 1.11)	0.97 (0.90, 1.05)
Year 1	44.72	43.01	1.04 (0.97, 1.11)	1.01 (0.93, 1.09)	1.05 (0.97, 1.14)
Year 2	42.18	42.39	0.99 (0.91, 1.09)	0.98 (0.87, 1.10)	1.00 (0.91, 1.11)
Year 3	37.57	40.29	0.93 (0.86, 1.01)	<b>0.86 (0.77, 0.96)**</b>	0.97 (0.88, 1.08)
Year 4	37.07	39.81	0.93 (0.85, 1.03)	0.95 (0.84, 1.08)	0.91 (0.82, 1.01)
Physical dating violence experienced: Yes to 1 item					
Year 0	10.89	10.89	1.00 (0.89, 1.12)	1.01 (0.86, 1.18)	1.00 (0.86, 1.16)

**Appendix**  
**RCT Testing Bystander Effectiveness to Reduce Violence**  
**Coker et al.**

Year 1	11.54	9.96	<b>1.16 (1.00, 1.35)*</b>	<b>1.17 (1.05, 1.31)**</b>	1.14 (0.92, 1.40)
Year 2	10.56	9.80	1.08 (0.94, 1.24)	1.01 (0.84, 1.20)	1.14 (0.99, 1.31)
Year 3	8.51	10.01	<b>0.85 (0.75, 0.96)**</b>	<b>0.80 (0.70, 0.92)**</b>	0.90 (0.76, 1.06)
Year 4	8.14	9.12	0.89 (0.75, 1.06)	0.96 (0.78, 1.18)	0.82 (0.68, 1.01)
Measures of violence effect <sup>b</sup>					
Physically hurt <sup>b</sup>					
Year 0	4.97	5.11	0.97 (0.83, 1.14)	0.87 (0.63, 1.22)	1.03 (0.90, 1.18)
Year 1	6.31	5.65	1.12 (0.95, 1.31)	1.12 (0.91, 1.38)	1.10 (0.90, 1.34)
Year 2	5.77	5.82	0.99 (0.85, 1.15)	0.94 (0.73, 1.20)	1.02 (0.84, 1.25)
Year 3	4.61	5.29	0.87 (0.74, 1.02)	0.82 (0.58, 1.16)	0.90 (0.75, 1.09)
Year 4	4.71	5.04	0.93 (0.79, 1.11)	0.97 (0.72, 1.30)	0.91 (0.76, 1.10)
Missed school <sup>b</sup>					
Year 0	3.18	3.25	0.98 (0.78, 1.23)	0.93 (0.63, 1.38)	1.00 (0.81, 1.25)
Year 1	4.06	3.16	<b>1.29 (1.06, 1.56)**</b>	1.20 (0.92, 1.56)	<b>1.33 (1.04, 1.72)**</b>
Year 2	3.98	4.04	0.99 (0.82, 1.18)	0.91 (0.66, 1.26)	1.04 (0.87, 1.24)
Year 3	2.87	3.59	<b>0.80 (0.65, 0.99)*</b>	0.75 (0.52, 1.09)	0.83 (0.66, 1.06)
Year 4	2.96	3.50	0.85 (0.67, 1.07)	0.90 (0.65, 1.26)	0.81 (0.63, 1.03)
Sought help <sup>b</sup>					
Year 0	4.24	4.00	1.06 (0.89, 1.25)	1.10 (0.79, 1.52)	1.03 (0.83, 1.27)
Year 1	4.94	4.21	1.17 (0.99, 1.39)	1.28 (0.98, 1.68)	1.10 (0.92, 1.31)
Year 2	4.83	5.01	0.96 (0.81, 1.14)	0.87 (0.68, 1.13)	1.05 (0.88, 1.26)
Time 3	3.76	4.57	<b>0.82 (0.70, 0.97)**</b>	0.71 (0.50, 1.01)	0.91 (0.74, 1.11)
Time 4	4.09	4.50	0.91 (0.75, 1.10)	0.94 (0.69, 1.29)	0.90 (0.74, 1.09)

Notes: Boldface indicates statistical significance (\* $p < 0.05$ ; \*\* $p < 0.01$ ).

<sup>a</sup>Prevalence rates obtained from GEE analysis with student-level reports of violence form (yes/no for any affirmative response) as outcome, clustered within schools; analyses are conducted by school-level randomization (ITT). Mischievous responders are not included in these analyses.

<sup>b</sup>Due to sexual violence or physical dating violence

**Appendix**  
**RCT Testing Bystander Effectiveness to Reduce Violence**  
**Coker et al.**

**Appendix Figure 1.** Interpersonal violence measures and psychometric properties.

<p><i>“In the past 12 months, how frequently” did you was the stem used for items</i></p>
<p><b>Construct:</b> <i>Perpetration of Sexual Violence (PRIMARY OUTCOME); Cronbach’s <math>\alpha=0.859^a</math></i></p>
<p><b>Source:</b> Revised for high school population, based on National Intimate Partner and Sexual Violence Survey (NISVS). Black MC, Basile KC, Breiding MJ, et al. The National Intimate Partner and Sexual Violence Survey (NISVS): 2010 Summary Report. Atlanta, GA: National Center for Injury Prevention and Control, Centers for Disease Control and Prevention; 2011.</p>
<p><b>Items<sup>b</sup>:</b></p> <ol style="list-style-type: none"> <li>1. Have sexual activities with a high school student because you either threatened to end your friendship or romantic relationship if they didn’t or because you pressured the other person by arguing or begging? (Coerced sex)</li> <li>2. Have sexual activities with another high school student by threatening to use or used physical force (twisting their arm, holding them down)? (Physically forced sex)</li> <li>3. Have sexual activities with another high school student because she/he was drunk or on drugs? (Alcohol or drug facilitated sex)</li> </ol>
<p><b>Construct:</b> <i>Perpetration of Sexual Harassment<sup>c</sup>; Cronbach’s <math>\alpha=0.763^a</math></i></p>
<p><b>Source:</b> Revised, based on Sexual Experiences Questionnaire. Fitzgerald LF, Magley VJ, Drasgow F, Waldo CR. Measuring sexual harassment in the military: The sexual experiences questionnaire (SEQ-DoD). <i>Mil Psych.</i> 1999;11(3):243-264.  <a href="http://dx.doi.org/10.1207/s15327876mp1103_3">http://dx.doi.org/10.1207/s15327876mp1103_3</a>.</p>
<p><b>Items<sup>b</sup>:</b></p> <ol style="list-style-type: none"> <li>1. Tell sexual stories or jokes that made another high school student uncomfortable?</li> <li>2. Make gestures, rude remarks, or use sexual body language to embarrass or upset another high school student?</li> <li>3. Keep asking another high school student out on a date or ask to hookup even though they said No?</li> </ol>
<p><b>Construct:</b> <i>Perpetration of Stalking<sup>c</sup>; Cronbach’s <math>\alpha=0.806^a</math></i></p>
<p><b>Source:</b> Revised based on National Violence Against Women Survey. Tjaden P, Thoennes N. Prevalence, incidence, and consequences of violence against women: findings from the National Violence Against Women Survey. Washington, D.C: U.S. Department of Justice, Office of Justice Programs;1998. NCJ 172837.</p>
<p><b>Items</b></p> <ol style="list-style-type: none"> <li>1. Followed, spied on, or observed someone using computer software, cameras, listening tools or global positioning system (GPS)?</li> <li>2. Showed up at someone’s home, school, or work or waited for them when they asked you not to?</li> <li>3. Sent unwanted gifts, emails, text messages, phone calls, notes, or pictures posted on social networking sites for example, Facebook, Myspace, or Twitter?</li> </ol>
<p><b>Construct:</b> <i>Perpetration of Physical violence in a dating relationship<sup>c,d</sup>; Cronbach’s <math>\alpha</math> not calculated; 1 item</i></p>
<p><b>Source:</b> Revised based on National Intimate Partner and Sexual Violence Survey. (Black et al. 2011)</p>
<p><b>Item:</b> Hit, slapped, or physically hurt a current or previous boyfriend or girlfriend on purpose?</p>



**Appendix**  
**RCT Testing Bystander Effectiveness to Reduce Violence**  
**Coker et al.**

<p><b>Construct:</b> <i>Perpetration of Psychological violence in a dating relationship<sup>c,d</sup>; Cronbach <math>\alpha=0.800^a</math></i></p>
<p><b>Source:</b> Revised based on National Intimate Partner and Sexual Violence Survey (Black et al. 2011)</p>
<p><b>Items<sup>b</sup>:</b></p> <ol style="list-style-type: none"> <li>1. Try to control a current or previous girlfriend or boyfriend by always checking up on them, telling them who their friends could be, or telling them what they could do and when?</li> <li>2. Damage something on purpose that was important to a boyfriend or girlfriend?</li> <li>3. Shout, yell, insult, or swear at a current or previous girlfriend or boyfriend?</li> <li>4. Threaten to hurt a current or previous boyfriend or girlfriend?</li> </ol>
<p><b>Construct:</b> <i>Victimization of Sexual Violence; Cronbach's <math>\alpha=0.759^a</math></i></p>
<p><b>Source:</b> Revised for high school population, based on National Intimate Partner and Sexual Violence Survey. (Black et al. 2011)</p>
<p><b>Items<sup>b</sup>:</b></p> <ol style="list-style-type: none"> <li>1. Have sexual activities even though you didn't really want to because they threatened to end your friendship or romantic relationship if you didn't or because you felt pressured by the other person's constant arguments or begging? (Coerced sex)</li> <li>2. Have sexual activities when you didn't want to because the other person threatened to use or used physical force (like twisting your arm, holding you down)? (Physically forced sex)?</li> <li>3. Have sexual activities when you didn't want to because you were drunk or using drugs? (Alcohol or drug facilitated sex)</li> </ol>
<p><b>Construct:</b> <i>Victimization of Sexual Harassment<sup>c</sup>; Cronbach's <math>\alpha=0.688^a</math></i></p>
<p><b>Source:</b> Revised, based on Sexual Experiences Questionnaire (Fitzgerald et al. 1999)</p>
<p><b>Items<sup>b</sup>:</b></p> <ol style="list-style-type: none"> <li>1. Tell you sexual stories or jokes that made you uncomfortable?</li> <li>2. Make gestures, rude remarks or use sexual body language to embarrass or upset you?</li> <li>3. Keep asking you out on a date or asking you to hookup even though you said No?</li> </ol>
<p><b>Construct:</b> <i>Victimization of Stalking<sup>c</sup> [Cronbach's <math>\alpha=0.675]^a</math></i></p>
<p><b>Source:</b> Revised based on National Violence Against Women Survey. (Black et al. 2011)</p>
<p><b>Items<sup>b</sup>:</b></p> <ol style="list-style-type: none"> <li>1. You were followed, spied on or monitored using computer software, cameras, listening tools, or GPS?</li> <li>2. Someone showed up at your home, school, or work or waited for you when you did not want them to?</li> <li>3. You received unwanted phone calls, gifts, emails, text messages, or notes/pictures posted on social networking sites for example, Facebook, Myspace, or Twitter?</li> </ol>
<p><b>Construct:</b> <i>Victimization of Physical violence in a dating relationship<sup>c,d</sup>; Cronbach's <math>\alpha</math> not calculated; 1 item</i></p>
<p><b>Source:</b> Revised based on National Intimate Partner and Sexual Violence Survey. (Black et al. 2011)</p>
<p><b>Item:</b> Current or previous boyfriend or girlfriend hit, slapped, or physically hurt you on purpose?</p>

**Appendix**  
**RCT Testing Bystander Effectiveness to Reduce Violence**  
**Coker et al.**

<p><b>Construct:</b> <i>Victimization of Psychological violence in a dating relationship<sup>c,d</sup>; Cronbach's <math>\alpha=0.820^a</math></i></p>
<p><b>Source:</b> Revised based on National Intimate Partner and Sexual Violence Survey. (Black et al. 2011)</p>
<p><b>Items<sup>b</sup>:</b></p> <ol style="list-style-type: none"> <li>1. Tried to control you by always checking up on you, telling you who your friends could be, or telling you what you could do and when?</li> <li>2. Damaged something that was important to you on purpose?</li> <li>3. Shouted, yelled, insulted, or swore at you?</li> <li>4. Threatened to hit, slap, or physically hurt you?</li> </ol>
<p><b>Construct:</b> <i>Measures of Violence Effects* Outcomes of unwanted sex or physical violence in a dating relationship; Cronbach's <math>\alpha=0.818^a</math></i></p>
<p><b>Source:</b> Revised based on National Intimate Partner and Sexual Violence Survey. (Black et al. 2011)</p>
<p><b>Items<sup>b</sup>:</b></p> <ol style="list-style-type: none"> <li>1. How many times have you been physically hurt because of unwanted sexual activity or because a current or previous boyfriend/girlfriend hurt you on purpose?</li> <li>2. How many times did you miss school because of unwanted sexual activity or a current or previous boyfriend/girlfriend physically hurt you on purpose?</li> <li>3. How many times did you have to go to the doctor, school nurse, or hospital because of unwanted sexual activity or a current or previous boyfriend/girlfriend physically hurt you on purpose?</li> </ol>

<sup>a</sup>Cronbach's alpha reported for the sample included in these analyses. Psychometric analyses provided for data collected at baseline in the 26 participating high schools.

<sup>b</sup>Response Options: for all Years (baseline, Y1-Y4) and all perpetration items, were 0, 1-2, 3-5, 6-9, 10+ times and were coded in models as: 0, 1, 3, 6, or 10 times. The same was also true for stalking, physical, and psychological dating violence experienced. For unwanted sex, sexual harassment, and the three sexual or dating violence effect measures response options changed from 0, 1-2, 3-5, 6+ times at baseline to 0, 1-2, 3-5, 6-9, 10+ times for Y1-Y4. To be consistent across time for these outcomes, Y1-Y4 responses were recoded as 0, 1, 3, 6.

<sup>c</sup>Denotes exploratory outcomes.

<sup>d</sup>Psychological violence and physical violence by a dating partner items asked about experiences involving a "current or previous boyfriend/girlfriend".

## References

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Copy of the survey available on request (ann.coker@uky.edu)