

Table S1. Multilevel logistic regression models of violence victimization outcomes, among cohorts of lesbian, gay and bisexual youth in exposed and unexposed schools in 16 school districts in the United States - Youth Risk Behavior Survey (YRBS) 2015 and 2017

	Did not go to school because of safety concerns	Threatened or injured with a weapon at school	Forced sex	Sexual dating violence ^a	Physical dating violence ^a	Bullied at school	Electronically bullied
	AOR (95% CI)						
Sex							
Male (ref)	-	-	-	-	-	-	-
Female	0.60 (0.46, 0.79)	0.42 (0.35, 0.51)	1.14 (0.98, 1.33)	0.91 (0.77, 1.07)	0.85 (0.71, 1.00)	0.9 (0.79, 1.02)	1.08 (0.89, 1.29)
Race							
White (ref)	-	-	-	-	-	-	-
Non-Hispanic Black	1.52 (1.00, 2.31)	1.86 (1.37, 2.52)	0.94 (0.71, 1.25)	0.54 (0.37, 0.78)	1.26 (0.88, 1.81)	0.69 (0.51, 0.95)	0.57 (0.46, 0.70)
Hispanic/Latino	1.80 (1.26, 2.58)	1.70 (1.10, 2.61)	1.25 (1.01, 1.55)	0.82 (0.66, 1.01)	1.24 (0.83, 1.85)	0.95 (0.72, 1.26)	0.78 (0.61, 1.01)
Other	2.00 (1.39, 2.88)	1.57 (1.03, 2.39)	0.89 (0.67, 1.17)	0.95 (0.62, 1.46)	1.41 (0.95, 2.08)	0.95 (0.70, 1.30)	0.79 (0.64, 0.98)
Grade							
9 th (ref)	-	-	-	-	-	-	-
10th	0.75 (0.60, 0.94)	0.71 (0.59, 0.85)	1.04 (0.85, 1.28)	0.99 (0.72, 1.35)	0.92 (0.77, 1.11)	0.80 (0.69, 0.92)	0.65 (0.53, 0.81)
11th	0.69 (0.51, 0.95)	0.70 (0.50, 0.98)	1.30 (1.03, 1.63)	0.92 (0.54, 1.56)	0.98 (0.74, 1.31)	0.68 (0.57, 0.81)	0.57 (0.44, 0.74)
12th	0.81 (0.59, 1.10)	0.93 (0.59, 1.46)	1.22 (0.94, 1.58)	1.02 (0.66, 1.59)	1.06 (0.81, 1.40)	0.55 (0.41, 0.73)	0.51 (0.38, 0.67)
Exposure status^b							
Unexposed school (ref)	-	-	-	-	-	-	-
Exposed school	1.46 (1.05, 2.03)	1.22 (0.87, 1.71)	1.52 (1.13, 2.04)	1.02 (0.74, 1.40)	1.24 (0.89, 1.73)	0.99 (0.80, 1.21)	1.08 (0.87, 1.35)
Year							
2015 (ref)	-	-	-	-	-	-	-

2017	1.39 (1.12, 1.72)	0.92 (0.68, 1.26)	1.2 (0.91, 1.59)	0.88 (0.42, 1.86)	0.88 (0.72, 1.07)	0.93 (0.71, 1.22)	1.41 (1.04, 1.93)
Exposure × Year	0.88 (0.70, 1.11)	1.12 (0.86, 1.47)	0.72 (0.51, 1.00)	0.91 (0.57, 1.47)	1.15 (0.90, 1.47)	0.99 (0.76, 1.30)	0.81 (0.62, 1.04)
Observations	6156	6297	5044	3746	4211	6243	6269

Bolded estimates indicate statistical significance (p-value < 0.05)

^a Of youth who dated or went out with someone during the 12 months before the survey.

^b Exposed schools are a set of high-need schools, defined by high adolescent STI, pregnancy, or sexual risk behavior rates, that are the focus of the district's programmatic efforts. Unexposed schools are schools in the same districts which were not the focus of the CDC program and may have implemented similar activities but did not receive the same supports as exposed schools.

Table S2. Multilevel logistic regression models of mental health and substance use outcomes, among cohorts of lesbian, gay and bisexual youth in exposed and unexposed schools in 16 school districts in the United States - Youth Risk Behavior Survey (YRBS) 2015 and 2017

	Persistent sadness & hopelessness	Considered attempting suicide	Made a suicide plan	Attempted suicide	Injured in a suicide attempt	Lifetime Injection drug use	Ever use marijuana	Currently use marijuana
AOR (95% CI)								
Sex								
Male (ref)	-	-	-	-	-	-	-	-
Female	1.92 (1.61, 2.29)	1.38 (1.17, 1.62)	1.21 (1.00, 1.47)	0.96 (0.85, 1.09)	0.88 (0.62, 1.25)	0.19 (0.16, 0.23)	1.52 (1.26, 1.83)	1.41 (1.22, 1.63)
Race								
White (ref)	-	-	-	-	-	-	-	-
Non-Hispanic Black	0.59 (0.46, 0.76)	0.65 (0.51, 0.84)	0.82 (0.56, 1.18)	1.24 (0.83, 1.85)	2.11 (1.18, 3.78)	3.06 (1.94, 4.84)	1.14 (0.92, 1.40)	1.17 (1.01, 1.34)
Hispanic/Latino	1.01 (0.80,1.27)	0.94 (0.78, 1.13)	1.11 (0.80, 1.54)	1.39 (1.00, 1.93)	2.75 (1.47, 5.16)	2.42 (1.57, 3.74)	1.04 (0.83, 1.31)	1.08 (0.90, 1.31)
Other	0.82 (0.68, 1.00)	0.96 (0.86, 1.07)	1.1 (0.86,1.41)	1.45 (1.09, 1.93)	2.95 (1.64, 5.31)	2.51 (1.98, 3.17)	0.65 (0.40, 1.07)	0.79 (0.59, 1.06)
Grade								
9 th (ref)	-	-	-	-	-	-	-	-
10th	0.93 (0.80, 1.08)	0.94 (0.75, 1.17)	0.78 (0.62, 0.97)	0.72 (0.54, 0.96)	0.72 (0.49, 1.07)	0.76 (0.52, 1.11)	1.39 (1.04, 1.88)	1.14 (0.94, 1.38)
11th	0.87 (0.71, 1.07)	0.87 (0.68, 1.11)	0.77 (0.58, 1.02)	0.70 (0.57, 0.86)	0.86 (0.59, 1.26)	0.67 (0.44, 1.03)	1.86 (1.52, 2.28)	1.42 (1.10, 1.85)
12th	0.87 (0.66, 1.13)	0.78 (0.59, 1.02)	0.63 (0.46, 0.87)	0.71 (0.54, 0.92)	0.92 (0.62, 1.36)	0.82 (0.41, 1.66)	2.80 (1.96, 4.00)	1.77 (1.39, 2.26)

Exposure status^a

Unexposed school (ref)	-	-	-	-	-	-	-	-
Exposed school	1.09 (0.91, 1.31)	0.97 (0.85, 1.11)	1.04 (0.84, 1.28)	1.42 (1.19, 1.71)	1.39 (1.02, 1.90)	1.8 (0.95, 3.40)	1.66 (1.27, 2.18) ***	1.83 (1.45, 2.31)
Year								
2015 (ref)	-	-	-	-	-	-	-	-
2017	1.1 (0.88, 1.37)	0.93 (0.78, 1.12)	1.03 (0.76, 1.41)	1.01 (0.85, 1.20)	0.88 (0.65, 1.20)	1.51 (0.69, 3.27)	0.79 (0.65, 0.97)	1.16 (0.97, 1.39)
Exposure × Year	0.85 (0.69, 1.05)	0.94 (0.82, 1.08)	0.81 (0.62, 1.05)	0.83 (0.64, 1.06)	0.9 (0.56, 1.45)	0.62 (0.25, 1.54)	0.87 (0.64, 1.19)	0.82 (0.66, 1.02)
Observations	6196	6237	4599	5473	4549	3836	3172	6037

Bolded estimates indicate statistical significance (p-value < 0.05)

^a Exposed schools are a set of high-need schools, defined by high adolescent STI, pregnancy, or sexual risk behavior rates, that are the focus of the district's programmatic efforts. Unexposed schools are schools in the same districts which were not the focus of the CDC program and may have implemented similar activities but did not receive the same supports as exposed schools.