

Table 3 Univariate and multiple logistic regression analyses of association of substance use with different forms and categories of bullying

Form and category of bullying	Univariate analysis			Multiple logistic regression		
	Odds Ratio	95% CI	P value	Odds Ratio	95% CI	P value
General bullying						
Not involved*	1			1		
Victim only	2.79	1.76-4.42	<0.001	2.43	1.51-3.92	<0.001
Bully-victim	7.68	4.96-11.91	<0.001	6.59	4.17-10.42	<0.001
Bully only	0.85	0.20-3.74	0.834	0.75	0.17-3.39	0.707
Physical bullying						
Not involved	1			1		
Victim only	2.52	1.67-3.82	<0.001	1.86	1.20-2.89	0.006
Bully-victim	8.46	5.65-12.65	<0.001	5.60	3.64-8.64	<0.001
Bully only	1.67	0.78-3.57	0.183	1.30	0.59-2.85	0.521
Verbal bullying						
Not involved	1			1		
Victim only	2.78	1.83-4.22	<0.001	2.35	1.52-3.64	<0.001
Bully-victim	7.90	5.18-12.06	<0.001	6.34	4.07-9.87	<0.001
Bully only	3.03	1.45-6.33	0.003	2.79	1.28-6.10	0.010
Social bullying						
Not involved	1			1		
Victim only	2.11	1.42-3.12	<0.001	1.98	1.31-2.99	0.001
Bully-victim	7.32	4.85-11.05	<0.001	5.75	3.73-8.87	<0.001
Bully only	2.51	1.14-5.52	0.022	2.11	0.92-4.84	0.079
Cyberbullying						
Not involved	1			1		
Victim only	3.16	2.14-4.68	<0.001	2.71	1.79-4.09	<0.001
Bully-victim	8.61	5.47-13.55	<0.001	6.73	4.16-10.90	<0.001
Bully only	2.88	1.39-5.95	0.004	2.14	0.99-4.59	0.052
Racial bullying						
Not involved	1			1		
Victim only	2.54	1.59-4.07	<0.001	2.23	1.34-3.68	0.002
Bully-victim	4.45	1.95-10.11	<0.001	2.82	1.20-6.61	0.017
Bully only	3.15	1.13-8.80	0.028	1.74	0.60-5.03	0.304
Sexual bullying						
Not involved	1			1		
Victim only	5.86	3.10-11.07	<0.001	4.51	2.27-8.94	<0.001
Bully-victim	33.48	7.42-151.10	<0.001	25.33	5.16-124.37	<0.001
Bully only	5.58	2.61-11.94	<0.001	3.87	1.74-8.61	0.001

*Students not involved in each specific form of bullying.