

Adolescents who participate in extracurricular activities are less susceptible to misusing opioids.

The relationship between different types of structured activities (i.e., supervised, non-academic, prosocial community activities) and their protective effect against opioid misuse ( ) among justice-involved adolescents ( ) has yet to be tested.

We hypothesize that:

: JIAs involved in any type of structured activity will have lower odds of opioid misuse.

: As the number of structured activities JIAs are involved in increases, the odds of opioid misuse will decrease.

#### Logistic Regression Estimating OM in Controls

Sex (reference=male)	-	-
Female	1.67***	[1.51,1.82]
Age at First Offense (reference=12 & under)	-	-
13 to 14	1.27***	[1.12,1.43]
15	1.33***	[1.16,1.52]
16	1.20*	[1.03,1.39]
Over 16	1.04	[0.87,1.25]
95% confidence intervals (CI)	* < 0.05, *** < 0.001	

Female JIAs had 1.67 higher odds of meeting the criteria for past 30-day opioid misuse than male JIA.

JIAs between the ages of 13 and 16 at their first offense had higher odds of meeting the past 30-day opioid misuse criteria than those 12 and younger.

JIAs at age 15 had the highest odds for OM.

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No structured activity	45,062	57.9	1,417	66.3	%
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#### Logistic Regression Estimating OM in Structured Activities

No structured activity involvement	-	-
Community/cultural group	0.68**	[0.53,0.90]
Hobby group/club	0.77*	[0.60,0.99]
Athletics	0.56***	[0.46,0.67]
Religious/church group	0.80**	[0.69,0.93]
Volunteer organization	0.85	[0.56,1.29]
Two structured activities	0.66***	[0.57,0.77]
Three structured activities	0.63***	[0.49,0.81]
95% confidence intervals (CI)	* < 0.05, ** < 0.01, *** < 0.001	

JIAs involved in one of any structured activities were statistically significantly less likely to have past 30-day opioid misuse than those who had not been involved in any activities, except for those involved in volunteer organizations.

JIAs involved in two or three structured activities had lower odds.