

**Appendix B: Sensitivity Analysis for School-Level Clustering**

<b>Predictors</b>		<b>Model derived using lasso regression</b>
<b>Individual (Demographic)</b>		
1	Gender	
	Male	-0.15
	Female	x
2	Gender Minority Status	
	Cisgender	-0.3
	Transgender	x
3	Sexual Minority Status	
	Heterosexual	-0.38
	Non-Heterosexual	x
<b>Individual (Behavioral)</b>		
4	Academic Performance	-0.1
5	Lifetime use of Alcohol	0.01
6	Lifetime use of Cigarettes	0.11
7	Lifetime use of Vapes	0.15
8	Lifetime use of Cannabis	x
9	Lifetime use of other Drugs	0.1
<b>Emotional-Social</b>		
10	Foster Care Placement	
	No	-0.01
	Yes	x
11	Parent Education Level	0.08
12	Positive Substance Use Education	-0.2
13	School-Based Victimization	0.38

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14	Access to Drugs and Alcohol	0.13
<b>Mental-Political</b>		
15	Depressive Symptoms	
	No	-1.15
	Yes	x
<b>Physical-Economic</b>		
16	Homeless	
	No	0.12
	Yes	x
17	Breakfast Consumption	
	No	0.1
	Yes	x
Intercept		-2.23
Total number of predictors retained from the 17 in the model		16

Table 3 – Penalized Regression Coefficients of Predictors Retained in the Lasso Model (Adjusted for School-Level Clustering)

## APPENDIX

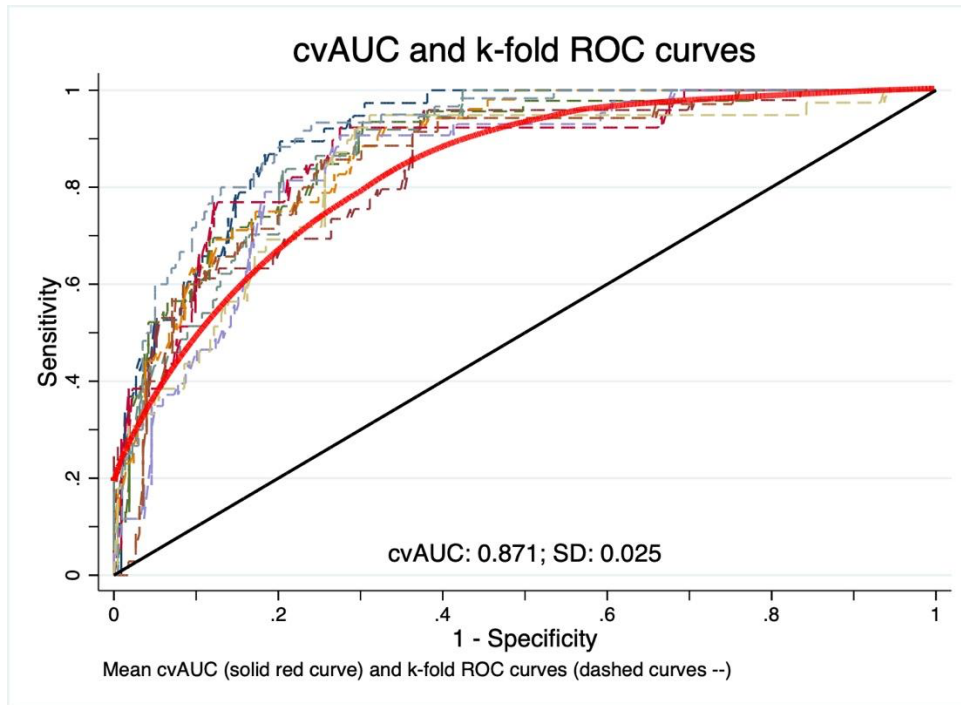


Figure 5 – Model Discrimination: ROC Curve Showing Mean Cross-Validated Area Under the Curve (AUC), Adjusted for School-Level Clustering

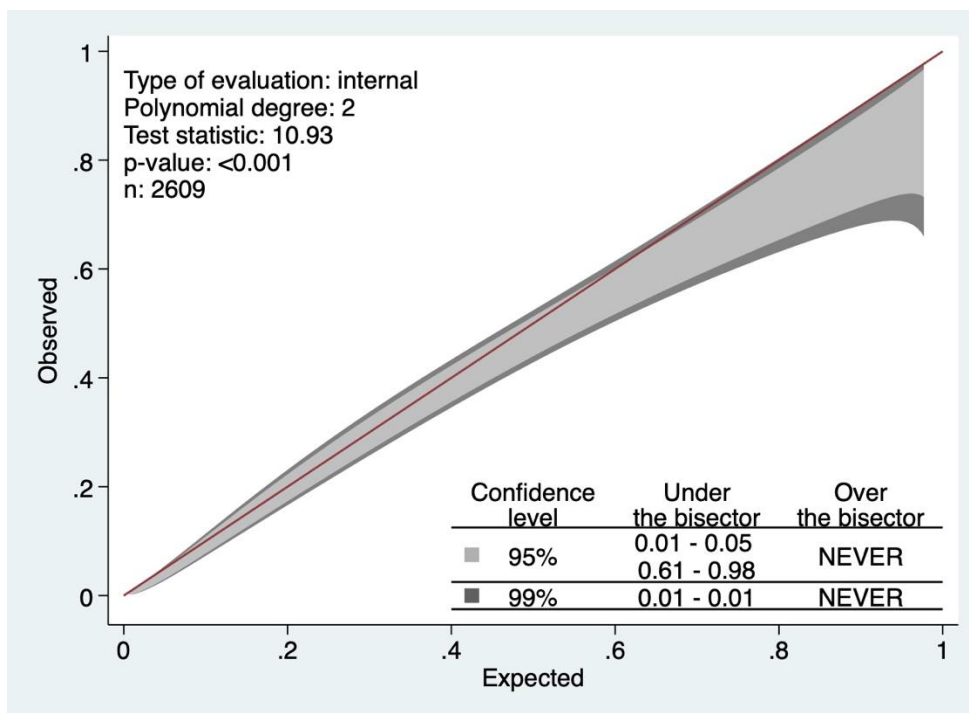


Figure 6 – GiViTI Calibration Belt Showing Deviations from the Bisector (45° Line of Perfect Calibration) at the 95% (Inner Belt: Light Grey) and 99% (Outer Belt: Dark Grey) Confidence Levels, Adjusted for School-Level Clustering