JOURNAL *of* HEALTH *and* SOCIAL BEHAVIOR

ONLINE SUPPLEMENT

to article in

Adolescent Mental Health, Behavior Problems, and Academic Achievement

Jane D. McLeod
Indiana University

Ryotaro Uemura
Keio University

Shawna Rohrman
Indiana University

APPENDIX A. Descriptive Statistics for Study Variables

Variable	Mean	Std. Dev.	N
Mental Health Problems			
Depression (Dp)	.11	.31	666
Attention problems (A)	.20	.40	1288
Delinquency (D)	.19	.39	1171
Regular substance use (S)	.23	.42	1429
Regular cigarette use	.14	.35	903
Regular alcohol use	.11	.31	680
Regular drug use	.08	.27	505
Combinations of Problems			
Depression alone (Dp)	.04	.19	236
Attention problems alone (A)	.10	.30	635
Delinquency alone (D)	.06	.24	399
Substance use alone (S)	.09	.28	559
Dp-A	.01	.11	81
Dp-D	.01	.10	61
Dp-S	.01	.12	91
A-D	.02	.14	121
A-S	.03	.17	183
D-S	.05	.21	291
Dp-A-D	.01	.07	33
Dp-A-S	.01	.08	42
Dp-D-S	.01	.11	72
A-D-S	.02	.15	143
Dp-A-D-S	.01	.09	48
Academic Achievement			
High school GPA	2.55	.91	
Highest degree	4.72	1.66	
Academic Aptitude			
Vocabulary test score	101.39	14.20	
Special education/learning disability	.13	.33	
Controls			
Male (reference)	.46	.50	
Female	.54	.50	
White (reference)	.54	.50	
Asian	.07	.26	
Black	.19	.40	
Hispanic	.17	.38	
Native American	.01	.09	
Other race	.01	.09	

Age	16.07	1.13
9th grade (reference)	.29	.46
10th grade	.32	.47
11th grade	.32	.47
12th grade	.07	.25
Parent less than high school (reference)	.13	.33
Parent high school	.24	.43
Parent some college	.28	.45
Parent college or more	.34	.47
Family income in thousands	47.75	55.55
Did not receive public assistance (reference)	.87	.33
Received public assistance	.13	.33
Two-parent biological family (reference)	.56	.50
Two-parent stepfamily	.12	.33
Single parent family	.25	.43
Other family arrangement	.07	.25

Note: Descriptive statistics are from the combined imputed data sets. Parent's education is based on parent's report and, when not available, youth report. Public assistance receipt includes AFDC, food stamps, and housing assistance.

APPENDIX B. Coefficients and Effect Comparisons from Regression of Highest Degree on Combinations of Problems

	b	Comparison of multiple vs. single problems:			
		Depression	Attention problems	Delinquency	Substance use
Depression alone (Dp)	-.08 (.17)				
Attention problems alone (A)	-.21 (.13)				
Delinquency alone (D)	-.47** (.15)				
Substance use alone (S)	-.83*** (.12)				
Dp-A	-.71** (.24)	*	ns		
Dp-D	-.56 (.34)	ns		ns	
Dp-S	-.80** (.24)	*			ns
A-D	-.70** (.25)		ns	ns	
A-S	-1.23*** (.16)		***		*
D-S	-1.35*** (.16)			***	**
Dp-A-D	-.91 (.59)	ns	ns	ns	
Dp-A-S	-1.65*** (.35)	***	***		*
Dp-D-S	-1.03*** (.28)	**		ns	ns
A-D-S	-1.48*** (.25)		***	***	*
Dp-A-D-S	-1.38*** (.27)	***	***	**	ns

Notes: Coefficients from ordinal logistic regression. Standard errors are in parentheses. Model included controls for academic aptitude and social background. N = 6,315. *$p < .05$; **$p < .01$; ***$p < .001$; ns = not significant.