**Vitamin D Sufficiency Attenuates the Effect of Early Social Adversity on Child Antisocial Behavior**

**Online-Only Supplement**

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# Table S1. Descriptive statistics for excluded participants and comparisons between participants included and excluded in statistical analysis

|  |  |  |  |
| --- | --- | --- | --- |
| Variable | Mean/Proportion (SD) | Statistic | *p* |
| Age (y) | 11.48 (.50) | *t* = .88 | .38 |
| Sex | .50 | χ2 = .10 | .95 |
| Race | .80 | χ2 = .83 | .66 |
| Social adversity | 4.28 (2.45) | *t* = 1.48 | .14 |
| Parent report |  |  |  |
| Overall antisocial behavior | .16 (.93) | *t* = -.21 | .84 |
| Child report |  |  |  |
| Overall antisocial behavior | -.04 (.71) | *t* = -.70 | .49 |
| Aggressive-reactive | -.03 (.78) | *t* = -.51 | .61 |
| Callous-proactive | -.06 (.70) | *t* = -.95 | .34 |

*Note*. Sex = 1 if male; Race = 1 if African American.

# Figure S1. Effect of social adversity and vitamin D insufficiency on (A) parent-reported antisocial behavior, (B) child-reported overall antisocial behavior, (C) child-reported aggressive-reactive behavior, and (D) child-reported callous-proactive behavior scores in a subsample of African American children

|  |  |
| --- | --- |
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|  |  |
|  |  |

Note. Social adversity groups are 1 SD above and below the mean. Models were adjusted for sex, intelligence, ADHD, and skin tone. Vitamin D insufficiency = 1 if 25(OH)D < 30ng/mL.

# Table S2. Regression coefficients for the effects of social adversity, vitamin D insufficiency, and their interaction on antisocial behavior outcomes in a subsample of African American children

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Parent report** |  | **Child report** |
|  | Overall antisocial behavior |  | Overall antisocial behavior | Aggressive-reactive | Callous-proactive |
|  | b (SE) |  | b (SE) | b (SE) | b (SE) |
| Social adversity | -.04 (.05) |  | -.04 (.05) | -.06 (.06) | -.01 (.06) |
| Vitamin D insufficiency | .03 (.13) |  | .36\*\* (.14) | .41\*\*(.14) | .26† (.15) |
| Social adversity x Vitamin D insufficiency  | .16\*\* (.06) |  | .14\* (.06) | .15\* (.06) | .12† (.06) |
|  |  |  |  |  |  |
| Sex | .16 (.11) |  | .09 (.11) | .05 (.11) | .20† (.12) |
| Intelligence | -.01 (.01) |  | -.00 (.01) | .01 (.01) | -.02\* (.01) |
| ADHD  | .73\*\* (.15) |  | .19 (.15) | .21 (.16) | .17 (.17) |
| Skin tone | .02 (.04) |  | .02 (.04) | .02 (.04) | .01 (.04) |

Note. N = 204 as the PROCESS macro uses listwise deletion based on all variables in the model. Models were adjusted for sex, intelligence, ADHD, and skin tone. Sex was coded as 0 for female and 1 for male. b = unstandardized coefficient; SE = standard error. Vitamin D insufficiency = 1 if 25(OH)D < 30ng/mL.

†*p* < .10; \**p* < .05; \*\**p* < .01