Supplemental Material

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| Supplemental Table A. *Model 1a: Father-child separation as moderator of the effect of G1 father SUDs on G2 child lifetime SUDs (evaluation of proportional odds assumption)* | | | | | |
|  | B | SE | OR | 95% CI | |
|  |  |  |  | Lower | Upper |
| G2 SUDs DV 1 |  |  |  |  |  |
| **G1 father SUDs\*\*\*** | 0.875 | .180 | 2.400 | 1.686 | 3.415 |
| **G1 father-G2 child separation\*\*** | 1.513 | .459 | 4.539 | 1.845 | 11.166 |
| **G1 father SUDs x separation\*** | -1.101 | .451 | 0.333 | 0.138 | 0.804 |
| **G2 sex\*\*\*** | 0.737 | .167 | 2.090 | 1.507 | 2.898 |
| G2 SUDs DV 2 |  |  |  |  |  |
| **G1 father SUDs\*\*\*** | 0.856 | .163 | 2.353 | 1.708 | 3.242 |
| **G1 father-G2 child separation\*\*\*** | 2.003 | .354 | 7.413 | 3.703 | 14.841 |
| **G1 father SUDs x separation\*\*** | -1.286 | .374 | 0.276 | 0.133 | 0.575 |
| **G2 sex\*\*\*** | 0.814 | .181 | 2.257 | 1.584 | 3.216 |

*Note.* \**p* < .05, \*\**p <* .01, \*\*\**p* < .001. Nonsignificant covariates (G1 parent   
psychopathology, G1 mother SUDs, G1 mother-G2 child separation, G2 age, and   
G2 ethnicity) were trimmed. OR = Logistic regression odds ratio. CI = confidence   
intervals. G2 SUDs DV 1: 0=No SUDs; 1=One or two SUDs. G2 SUDs DV 2:

0=No SUDs or one SUD. 1=Two SUDs. Confidence intervals for odds ratios are not

significant if 1 is included. Significant effects **bolded** for emphasis. Coefficients for DVs

1 and 2 appear comparable, suggesting that the proportional odds assumption has been met.

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| Supplemental Table B. *Percentages of G2 SUDs by Group (Parent-Child Separation x Parental SUDs)* | | | |
|  | **Model 1a** | | |
|  | No G1 Father SUDs | G1 Father AUD or DUD | G1 Father AUD & DUD |
| No Father Sep. | 48.7% No G2 SUD  35.8% G2 AUD or DUD  15.5% G2 AUD & DUD | 30.6% No G2 SUDs  39.4% G2 AUD or DUD  30.0% G2 AUD & DUD | 19.0% No G2 SUDs  37.9% G2 AUD or DUD  43.1% G2 AUD & DUD |
| Father Sep. | 20.6% No G2 SUDs  23.5% G2 AUD or DUD  55.9% G2 AUD & DUD | 14.8% No G2 SUDs  37.0% G2 AUD or DUD  48.2% G2 AUD & DUD | 33.3% No G2 SUDs  38.1% G2 AUD or DUD  28.6% G2 AUD & DUD |
|  | **Model 2** | | |
|  | No G1 Father SUDs | G1 Father AUD or DUD | G1 Father AUD & DUD |
| No Father Sep. | 70.2% No G2 SUDs  22.2% G2 AUD or DUD  7.6% G2 AUD & DUD | 48.4% No G2 SUDs  33.9% G2 AUD or DUD  17.7% G2 AUD & DUD | 21.7% No G2 SUDs  47.8% G2 AUD or DUD  30.4% G2 AUD & DUD |
| Father Sep. | 42.9% No G2 SUDs  7.1% G2 AUD or DUD  50.0% G2 AUD & DUD | 18.8% No G2 SUDs  43.8% G2 AUD or DUD  37.4% G2 AUD & DUD | 35.7% No G2 SUDs  42.9% G2 AUD or DUD  21.4% G2 AUD & DUD |
| *Note.* Sep. = Separation. Only models with categorical outcome (G2 SUDs) included. | | | |

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| Supplemental Table C. *Means of Y by Group (Parent-Child Separation x Parental SUDs)* | | | |
|  | **Model 1a** (Y = G2 lifetime SUDs) | | |
|  | No G1 Father SUDs | G1 Father AUD or DUD | G1 Father AUD & DUD |
| No Father Sep. | 0.669 | 0.994 | 1.241 |
| Father Sep. | 1.353 | 1.333 | 0.952 |
|  | **Model 1b** (Y = G3 drinking) | | |
|  | No G2 Father SUD | G2 Father AUD or DUD | G2 Father AUD & DUD |
| No Father Sep. | 3.487 | 4.533 | 6.238 |
| Father Sep. | 3.848 | 5.105 | 5.333 |
|  | **Model 2** (Y = G2 SUDs during G3 child’s lifetime) | | |
|  | No G1 Father SUD | G1 Father AUD or DUD | G1 Father AUD & DUD |
| No Father Sep. | 0.374 | 0.694 | 1.087 |
| Father Sep. | 1.071 | 1.118 | 0.857 |
|  | **Model 3** (Y = G3 drinking) | | |
|  | No G2 Parent SUD | G2 Parent AUD or DUD | G2 Parent AUD & DUD |
| No Parent Sep. | 3.698 | 5.525 | 5.885 |
| Parent Sep. | 4.714 | 4.574 | 4.667 |
| *Note.* G2 SUDs were estimated as an ordered categorical variable when used as the outcome variable in primary study models, but for current examination of means by group, it was modeled as a continuous variable. G3 drinking was estimated as a latent variable in primary study models (three indicators: frequency of past-year drinking, average number of drinks consumed, and greatest number of drinks consumed in one day) but for current examination of means by group, G3 drinking was modeled as the mean of the three indicators. | | | |

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| Supplemental Table D. *Sensitivity analysis: Mother-child separation as moderator of effect of G2 mother SUDs on G3 child drinking* | | | |
|  | B | SE | *p* |
| **G2 mother SUDs\*** | 0.236 | .097 | .015 |
| G2 mother-G3 child separation | 0.352 | .254 | .166 |
| G2 mother SUD x separation | -0.359 | .226 | .113 |
| **G3 age\*\*\*** | 0.136 | .028 | <.001 |

*Note.* \**p* < .05, \*\**p <* .01, \*\*\**p* < .001. Significant effects **bolded** for emphasis.



Supplemental Figure A. *Study enrollment timeline*

*Note. \**Waves 7-10 were aggregated since G3 drinking data from these waves were aggregated with an age-band approach.