Appendix 1

*Descriptions and examples for each item included in the measures of negative reactivity and responsiveness*

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| --- | --- | --- |
| Item | Description | Example |
| Negative reactivity | | |
| Hostile Behaviors | Parental behaviors that are spiteful or nasty, including statements intended to be rejecting, critical, or provoke the child’s anger. | Parent tells child, “You’re not smart enough to finish that.” |
| Verbally Aggressive Discipline | The use of verbal threats to use physical discipline or cursing at the child. | Parent says “Don’t make me spank you.” |
| Physical Discipline | The use of threatening gestures, mildly aggressive behaviors (e.g., rough handling), or physical discipline. | Parent threatens to take their belt off. |
| Power Struggles | Parental behaviors that descend to the child’s level and are designed primarily to win rather than manage the child’s behavior. | Child says “Go away” and parent responds by saying “No you go away.” |
| Emotional Misattunement | Parental behaviors that reinforce and escalate the child’s negative affect. | “Mutual anger” between the parent and child, such as when the child yells and the parent yells back in response. |
| Intensity of Angry/Irritable Affect | The highest level of angry/irritable affect exhibited by the parent. | Glares, yelling. |
| Pervasiveness of Angry/Irritable Affect | The presence and consistency of angry/irritable affect throughout the tasks. | Parent displays negative affect during one task, but in the remaining tasks, angry/irritable affect does not predominate. |
| Responsiveness | | |
| Scaffolding | Parental behaviors designed to help the child be successful, respect the child’s autonomy, and reflect the parent’s ability to understand the child’s developmental level, abilities, and cues. | Parent organizes puzzle pieces before the child starts the puzzle. |
| Responsivity to Positive Behaviors | Parent provides positive feedback in response to child compliance or performance. | “Thank you” in response to compliance with a directive. |
| Warm Affection | Physical behavior and verbal statements which express affection and warmth toward the child. | Parent hugs their child. |
| Positive Engagement | A measure of a) the level of positive parental engagement with the child and b) parental behaviors indicating that the parent takes pleasure in the shared experience. | Parent smiles while engaging with their child. |
| Labelling | Behaviors that demonstrate a) that the parent is able to read the social cues of the child and b) is able to verbally express that which the child’s behaviors are communicating. | “I know you’re unhappy” in response to the child frowning. |
| Intensity of Positive Affect | The highest level of positive affect exhibited by the parent. | Bouts of laughter. |
| Pervasiveness of Positive Affect | The presence and consistency of positive affect throughout all four tasks. | Positive affect is present multiple times but it does not predominate across tasks. |

Adapted from Wakschlag, Hill, Danis, Grace, and Keenan (2013).

Appendix 2

*Complete results for the final path model*

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| Predictor | *b* | *SE(b)* | *β* | *p* | 95% CI |
| Self-control | | | | | |
| Dopaminergic polygenic composite | -.39 | .14 | -.26 | **.01\*** | -.761, -.018 |
| Negative reactivity | -.15 | .20 | -.45 | .47 | -.671, .375 |
| Responsiveness | -.06 | .05 | -.004 | .25 | -.189, .073 |
| Polygenic composite × negative reactivity | -.18 | .07 | -.18 | **.01\*** | -.348, -.016 |
| African American | -.30 | .20 | -.18 | .13 | -.799, .207 |
| Latinx American | .16 | .20 | .06 | .42 | -.357, .684 |
| Prenatal tobacco exposure status | -.48 | .14 | -.02 | **.001\*\*** | -.845, -.110 |
| Psychological distress | -.38 | .17 | -.33 | **.03\*** | -.817, .061 |
| Parental education | -.08 | .05 | .08 | .13 | -.204, .053 |
| Child sex | -.30 | .15 | .05 | **.05\*** | -.683, .088 |
| Polygenic composite × African American | .06 | .18 | .02 | .74 | -.410, .533 |
| Polygenic composite × Latinx American | .09 | .18 | -.03 | .63 | -.383, .558 |
| Polygenic composite × prenatal tobacco exposure status | .20 | .14 | .26 | .16 | --.167, .574 |
| Polygenic composite × psychological distress | .19 | .17 | .03 | .25 | -.236, .616 |
| Polygenic composite × parental education | -.03 | .05 | .08 | .48 | -.150, .085 |
| Polygenic composite × child sex | .10 | .14 | .01 | .47 | -.259, .462 |
| Negative reactivity × African American | .24 | .21 | .09 | .25 | -.304, .787 |
| Negative reactivity × Latinx American | .05 | .14 | .10 | .71 | -.306, .410 |
| Negative reactivity × prenatal tobacco exposure status | .12 | .13 | .13 | .36 | -.221, .468 |
| Negative reactivity × psychological distress | -.06 | .16 | -.06 | .71 | -.460, .343 |
| Negative reactivity × parental education | .01 | .05 | -.05 | .89 | -.111, .123 |
| Negative reactivity × child sex | .03 | .14 | .09 | .86 | -.342, .394 |
| Responsiveness × African American | -.08 | .07 | -.18 | .24 | -.261, .097 |
| Responsiveness × Latinx American | -.08 | .08 | -.09 | .30 | -.274, .117 |
| Responsiveness × prenatal tobacco exposure status | .10 | .06 | -.06 | .09+ | -.049, .248 |
| Responsiveness × psychological distress | .06 | .04 | -.06 | .16 | -.051, .175 |
| Responsiveness × parental education | .02 | .02 | .10 | .19 | -.023, .070 |
| Responsiveness × child sex | .12 | .06 | .02 | **.05\*** | -.034, .264 |
| WMIC | | | | | |
| Dopaminergic polygenic composite | -.20 | .13 | -.26 | .13 | -.548, .144 |
| Negative reactivity | -.28 | .19 | -.45 | .15 | -.763, .212 |
| Responsiveness | -.001 | .05 | -.004 | .98 | -.123, .121 |
| Polygenic composite × negative reactivity | -.12 | .06 | -.18 | .05+ | -.272, .038 |
| African American | -.34 | .18 | -.13 | .06+ | -.812, .125 |
| Latinx American | .11 | .19 | .06 | .56 | -.375, .594 |
| Prenatal tobacco exposure status | -.03 | .13 | -.02 | .85 | -.368, .317 |
| Psychological distress | -.50 | .16 | -.33 | **.002\*\*** | -.907, -.089 |
| Parental education | .04 | .05 | .08 | .37 | -.078, .162 |
| Child sex | .08 | .14 | .05 | .57 | -.280, .438 |
| Polygenic composite × African American | .04 | .17 | .02 | .82 | -.400, .479 |
| Polygenic composite × Latinx American | -.04 | .17 | -.03 | .80 | -.482, .394 |
| Polygenic composite × prenatal tobacco exposure status | .26 | .13 | .26 | **.05\*** | -.081, .609 |
| Polygenic composite × psychological distress | .05 | .15 | .03 | .76 | -.350, .444 |
| Polygenic composite × parental education | .04 | .04 | .08 | .37 | -.071, .147 |
| Polygenic composite × child sex | .01 | .13 | .01 | .91 | -.321, .350 |
| Negative reactivity × African American | .17 | .20 | .09 | .38 | -.336, .680 |
| Negative reactivity × Latinx American | .11 | .13 | .10 | .40 | -.225, .443 |
| Negative reactivity × prenatal tobacco exposure status | .10 | .13 | .13 | .45 | -.226, .415 |
| Negative reactivity × psychological distress | -.09 | .15 | -.06 | .56 | -.460, .288 |
| Negative reactivity × parental education | -.02 | .04 | -.05 | .59 | -.132, .086 |
| Negative reactivity × child sex | -.07 | .13 | .09 | .61 | -.274, .412 |
| Responsiveness × African American | -.10 | .07 | -.18 | .12 | -.268, .065 |
| Responsiveness × Latinx American | -.07 | .0 | -.09 | .36 | -.247, .117 |
| Responsiveness × prenatal tobacco exposure status | .03 | .05 | .06 | .63 | -.112, .164 |
| Responsiveness × psychological distress | -.02 | .04 | -.06 | .65 | -.124, .087 |
| Responsiveness × parental education | .02 | .02 | .10 | .28 | -.025, .061 |
| Responsiveness × child sex | .01 | .05 | .02 | .86 | -.129, .148 |
|  |  |  |  |  |  |

*Note*. WMIC = working memory/inhibitory control. *+p* < .10; *\*p* < .05; *\*\*p* < .01.