**Supplement Table 1**

Sociodemographics of youth participants who completed the questionnaire at 198 months (16.5 years) versus those who received but did not complete the questionnaire

|  |  |  |  |
| --- | --- | --- | --- |
| Variable | Completed Q (N=5111) | Did not complete Q (N=4832) | Total (N=14397) |
| Child’s Race (n) | 4950 | 4378 | 12718 |
| White | 4750 (96.0%) | 4146 (94.7%) | 12075 (94.9%) |
| Non-White | 200 (4.0%) | 232 (5.3%) | 643 (5.1%) |
| Child’s Sex (n) | 5111 | 4832 | 14397 |
| Male | 2082 (40.7%) | 2794 (57.8%) | 7384 (51.3%) |
| Female | 3029 (59.3%) | 2038 (42.2%) | 7013 (48.7%) |
| Financial Difficulties Score (n) | 4622 | 4096 | 12051 |
| Mean (SD) | 2.27 (3.18) | 3.14 (3.60) | 2.91 (3.53) |
| Range | 0 - 15 | 0 - 15 | 0 - 15 |
| Mother’s Highest Education (n) | 4759 | 4205 | 12378 |
| More than CSEs | 4212 (88.5%) | 3287 (78.2%) | 9879 (79.8%) |
| No more than CSEs | 547 (11.5%) | 918 (21.8%) | 2499 (20.2%) |
| Father’s Highest Education (n) | 4663 | 4016 | 11902 |
| More than CSEs | 3875 (83.1%) | 2876 (71.6%) | 8796 (73.9%) |
| No more than CSEs | 788 (16.9%) | 1140 (28.4%) | 3106 (26.1%) |
| Mat Smoking in Pregnancy (n) | 4507 | 4091 | 12181 |
| No | 3940 (87.4%) | 3188 (77.9%) | 9656 (79.3%) |
| Yes | 567 (12.6%) | 903 (22.1%) | 2525 (20.7%) |
| Neighborhood Quality Index (n) | 4567 | 4189 | 12557 |
| Mean (SD) | 8.37 (2.13) | 8.08 (2.26) | 8.09 (2.27) |
| Range | 0 - 12 | 0 - 12 | 0 - 12 |
| Maternal Social Class (n) | 4155 | 3420 | 10034 |
| 1 or 2 | 1867 (44.9%) | 1153 (33.7%) | 3748 (37.4%) |
| 3 or 4 | 1912 (46.0%) | 1838 (53.7%) | 5073 (50.6%) |
| 5, 6, or AF | 376 (9.0%) | 429 (12.5%) | 1213 (12.1%) |
| Paternal Social Class (n) | 4402 | 3734 | 10945 |
| 1 or 2 | 2377 (54.0%) | 1468 (39.3%) | 4905 (44.8%) |
| 3 or 4 | 1637 (37.2%) | 1708 (45.7%) | 4626 (42.3%) |
| 5, 6, or AF | 388 (8.8%) | 558 (14.9%) | 1414 (12.9%) |
| Child’s IQ (n) | 4033 | 2607 | 7291 |
| Mean (SD) | 107.25 (16.21) | 100.45 (16.09) | 104.02 (16.53) |
| Range | 45 - 148 | 46 - 151 | 45 - 151 |

Note: CSE: Certificate of Secondary Education. Social Class: 1 (highest social class) to 6 (lowest); AF=Armed Forces. Neighborhood Quality Index reflects self-rated residential neighborhood quality including liveliness, friendliness, noise, cleanliness, attractiveness, and pollution/dirtiness.

**Supplement Table 2**

Sociodemographics of youth participants with bereavement status ascertained: comparison of individuals with and without SDQ total score at 16.5

|  |  |  |  |
| --- | --- | --- | --- |
| Variable | Has SDQ Total Score (N=4093) | Missing SDQ Total Score (N=957) | Total (N=5050) |
| Child’s Race (n) | 4015 | 877 | 4892 |
| White | 3876 (96.5%) | 819 (93.4%) | 4695 (96.0%) |
| Non-White | 139 (3.5%) | 58 (6.6%) | 197 (4.0%) |
| Child’s Sex (n) | 4093 | 957 | 5050 |
| Male | 1767 (43.2%) | 283 (29.6%) | 2050 (40.6%) |
| Female | 2326 (56.8%) | 674 (70.4%) | 3000 (59.4%) |
| Financial Difficulties Score (n) | 3760 | 809 | 4569 |
| Mean (SD) | 2.18 (3.12) | 2.61 (3.36) | 2.26 (3.17) |
| Range | 0 - 15 | 0 - 15 | 0 - 15 |
| Mother’s Highest Education (n) | 3869 | 836 | 4705 |
| More than CSEs | 3493 (90.3%) | 678 (81.1%) | 4171 (88.7%) |
| No more than CSEs | 376 (9.7%) | 158 (18.9%) | 534 (11.3%) |
| Father’s Highest Education (n) | 3801 | 810 | 4611 |
| More than CSEs | 3233 (85.1%) | 601 (74.2%) | 3834 (83.1%) |
| No more than CSEs | 568 (14.9%) | 209 (25.8%) | 777 (16.9%) |
| Mat Smoking in Pregnancy (n) | 3648 | 808 | 4456 |
| No | 3242 (88.9%) | 658 (81.4%) | 3900 (87.5%) |
| Yes | 406 (11.1%) | 150 (18.6%) | 556 (12.5%) |
| Neighborhood Quality Index (n) | 3685 | 829 | 4514 |
| Mean (SD) | 8.40 (2.09) | 8.19 (2.28) | 8.37 (2.13) |
| Range | 0 - 12 | 1 - 12 | 0 - 12 |
| Maternal Social Class (n) | 3420 | 689 | 4109 |
| 1 or 2 | 1574 (46.0%) | 271 (39.3%) | 1845 (44.9%) |
| 3 or 4 | 1561 (45.6%) | 331 (48.0%) | 1892 (46.0%) |
| 5, 6, or AF | 285 (8.3%) | 87 (12.6%) | 372 (9.1%) |
| Paternal Social Class (n) | 3601 | 753 | 4354 |
| 1 or 2 | 1992 (55.3%) | 362 (48.1%) | 2354 (54.1%) |
| 3 or 4 | 1310 (36.4%) | 308 (40.9%) | 1618 (37.2%) |
| 5, 6, or AF | 299 (8.3%) | 83 (11.0%) | 382 (8.8%) |
| Child’s IQ (n) | 3407 | 588 | 3995 |
| Mean (SD) | 107.67 (16.26) | 105.13 (15.58) | 107.30 (16.18) |
| Range | 45 - 148 | 51 - 146 | 45 - 148 |

Note: CSE: Certificate of Secondary Education. Social Class: 1 (highest social class) to 6 (lowest); AF=Armed Forces. Neighborhood Quality Index reflects self-rated residential neighborhood quality including liveliness, friendliness, noise, cleanliness, attractiveness, and pollution/dirtiness.

**Supplemental Table 3**

Variables included in multiple imputation model and amount of missingness

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Variable | Variable Type | N Missing | Percent Missing | Imputed Values Used in Main Analysis |
| Bereavement (12-16.5) | Exposure | 0 | 0% | NA |
| SDQ - Total (16.5) | Outcome | 957 | 19% | N |
| SDQ - Emotional (16.5) | Outcome | 933 | 18% | N |
| SDQ - Conduct (16.5) | Outcome | 930 | 18% | N |
| SDQ - Hyperactivity (16.5) | Outcome | 929 | 18% | N |
| SDQ - Peer (16.5) | Outcome | 936 | 19% | N |
| SDQ - Prosocial (16.5) | Outcome | 933 | 18% | N |
| IQ (8) | Covariate | 1055 | 21% | Y |
| Child Race (32w gestation) | Covariate | 158 | 3% | Y |
| Child Sex (birth) | Covariate | 0 | 0% | Y |
| Mother's Qualifications (32w gestation) | Covariate | 345 | 7% | Y |
| Father's Qualifications (32w gestation) | Covariate | 439 | 9% | Y |
| Maternal Smoking (24-41w gestation) | Covariate | 594 | 12% | Y |
| Mother's Financial Difficulties Score (32w gestation) | Covariate | 481 | 10% | Y |
| Maternal Social Class (32w gestation) | Covariate | 941 | 19% | Y |
| Paternal Social Class (32w gestation) | Covariate | 696 | 14% | Y |
| Mother's Neighborhood Quality (0-41w gestation) | Covariate | 536 | 11% | Y |
| SDQ - Total (9) | Covariate | 652 | 13% | Y |
| SDQ - Prosocial (9) | Covariate | 638 | 13% | Y |
| SDQ - Hyperactivity (9) | Covariate | 637 | 13% | Y |
| SDQ - Emotional (9) | Covariate | 647 | 13% | Y |
| SDQ - Conduct (9) | Covariate | 639 | 13% | Y |
| SDQ - Peer (9) | Covariate | 647 | 13% | Y |
| IQ (15.5) | MI Auxiliary | 1432 | 28% | NA |
| Maternal Drinking (24-41w gestation) | MI Auxiliary | 782 | 15% | NA |
| Mother's Financial Difficulties Score (8m) | MI Auxiliary | 491 | 10% | NA |
| Mother's Prenatal CCEI Anxiety Score | MI Auxiliary | 616 | 12% | NA |
| Mother's Prenatal EPDS Depression Score | MI Auxiliary | 471 | 9% | NA |
| Mother's Prenatal Social Network Score | MI Auxiliary | 354 | 7% | NA |
| Mother's Social Network Score (1.75) | MI Auxiliary | 555 | 11% | NA |
| Mother's Verbal Fluency Test Score | MI Auxiliary | 2937 | 58% | NA |
| Mother's Maternal Care Score (12w gestation) | MI Auxiliary | 345 | 7% | NA |
| Mother's Parenting Score (2) | MI Auxiliary | 684 | 14% | NA |
| Age of Mother at Birth | MI Auxiliary | 430 | 9% | NA |
| Development Score (6m) | MI Auxiliary | 791 | 16% | NA |
| Development Score (18m) | MI Auxiliary | 653 | 13% | NA |
| Development Score (30m) | MI Auxiliary | 1054 | 21% | NA |
| Development Score (42m) | MI Auxiliary | 875 | 17% | NA |
| Behavioral Difficulties Score (3.5) | MI Auxiliary | 582 | 12% | NA |
| Communication Score (6.75) | MI Auxiliary | 770 | 15% | NA |
| Non-Verbal Communication Score (6.75) | MI Auxiliary | 1137 | 23% | NA |
| Antisocial Activities Score (8) | MI Auxiliary | 1169 | 23% | NA |
| Mother's Prenatal Urban/Rural Residence | MI Auxiliary | 2256 | 45% | NA |
| Mother's Prenatal Townsend Index Quantile | MI Auxiliary | 2256 | 45% | NA |
| Imputation occurred among N=5,050 whose bereavement status were ascertained. Variable describes the child unless otherwise specified. |

**Supplemental Table 4**

Correlation coefficients for all sociodemographic variables and covariates

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Child Race | Child Sex | Mother's Quals | Father's Quals | Maternal Smoking | Maternal Social Class | Paternal Social Class | Financial Difficulties | Neighborhood Quality Index |  |
| Child Race | 1.00 |  |  |  |  |  |  |  |  |  |
| Child Sex | -0.03 | 1.00 |  |  |  |  |  |  |  |  |
| Mother's Quals | 0.09 | 0.11 | 1.00 |  |  |  |  |  |  |  |
| Father's Quals | 0.12 | 0.12 | 0.65 | 1.00 |  |  |  |  |  |  |
| Maternal Smoking | 0.08 | 0.06 | 0.35 | 0.34 | 1.00 |  |  |  |  |  |
| Maternal Social Class | 0.10 | 0.09 | 0.35 | 0.49 | 0.25 | 1.00 |  |  |  |  |
| Paternal Social Class | 0.15 | 0.02 | 0.18 | 0.28 | 0.29 | 0.43 | 1.00 |  |  |  |
| Financial Difficulties | -0.14 | -0.01 | -0.18 | -0.16 | -0.19 | 0.21 | 0.24 | 1.00 |  |  |
| Neighborhood Quality Index | -0.02 | -0.09 | -0.35 | -0.33 | -0.15 | -0.09 | -0.13 | -0.16 | 1.00 |  |
| IQ | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | -0.31 | -0.30 | -0.17 | 0.07 |  |
|  |
|  |
|  |

**Supplemental Figure 1**

Correlation plot of all sociodemographic variables and covariates



Note: Pearson correlations are used for continuous variables, whereas polychoric and tetrachoric correlations are used for ordinal and binary variables, respectively. Polyserial/biserial correlations are used for mixed variables. Correlation estimates were transformed using the Fisher z transformation before being pooled using Rubin’s Rules. The pooled z estimate was then back transformed for ease of interpretation.