**Appendix D. MNAR analysis results for the LSAC case study**

**Table D1** Linear regression analysis results from the delta-adjustment method for the LSAC case study example; outcome variable is total social, emotional and behavioural difficulties of children as assessed by the total score on Strength and Difficulties Questionnaire (SDQ total score) measured at 8-9 years (wave 3).

\**Xth*percentile represents a percentile value of the pooled distribution obtained from experts used as a sensitivity parameter in the MNAR analysis.

†Measured at 4-5 years (wave 1).

‡Mother consumes >2 standard drinks of alcohol daily.

|  |  |
| --- | --- |
|  | **MIMNAR** |
|  | 5th  percentile\* | 25th percentile\* | 50th percentile\* | 75th percentile\* | 95th percentile\* |
| Variables |  |  |  |  |  |  |  |  |  |  |
|  | Coefficient (SE) | 95% CI | Coefficient (SE) | 95% CI | Coefficient (SE) | 95% CI | Coefficient (SE) | 95% CI | Coefficient (SE) | 95% CI |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Maternal emotional distress† | 0.54 (0.21) | (0.14, 0.94) | 0.70 (0.20) | (0.31, 1.09) | 0.82 (0.20) | (0.43, 1.21) | 1.08 (0.22) | (0.65, 1.50) | 1.76 (0.26) | (1.25, 2.28) |
|  |  |  |  |  |  |  |  |  |  |  |
| Child SDQ total score† | 0.50 (0.02) | (0.47, 0.53) | 0.50 (0.02) | (0.47, 0.53) | 0.50 (0.02) | (0.47, 0.53) | 0.50 (0.02) | (0.46, 0.53) | 0.49 (0.02) | (0.45, 0.53) |
|  |  |  |  |  |  |  |  |  |  |  |
| Mother's age | -0.00 (0.01) | (-0.03, 0.02) | -0.03 (0.01) | (-0.06, -0.00) | -0.04 (0.01) | (-0.07, -0.01) | -0.05 (0.02) | (-0.08, -0.02) | -0.09 (0.02) | (-0.12, -0.05) |
|  |  |  |  |  |  |  |  |  |  |  |
| Sex of child | 1.12 (0.14) | (0.84, 1.40) | 1.11 (0.14) | (0.85, 1.38) | 1.11 (0.14) | (0.84, 1.38) | 1.11 (0.15) | (0.82, 1.40) | 1.10 (0.18) | (0.74, 1.46) |
|  |  |  |  |  |  |  |  |  |  |  |
| Child has a sibling in the home | -0.80 (0.23) | (-1.25, -0.35) | -0.84 (0.22) | (-1.27, -0.40) | -0.85 (0.23) | (-1.29, -0.41) | -0.87 (0.24) | (-1.34, -0.40) | -0.90 (0.29) | (-1.48, -0.32) |
|  |  |  |  |  |  |  |  |  |  |  |
| Mother completed high school | -0.39 (0.16) | (-0.70, -0.08) | -0.64 (0.15) | (-0.95, -0.34) | -0.75 (0.16) | (-1.05, -0.44) | -0.94 (0.16) | (-1.26, -0.61) | -1.28 (0.20) | (-1.68, -0.89) |
|  |  |  |  |  |  |  |  |  |  |  |
| Mother current cigarette smoker | 0.15 90.22) | (-0.28, 0.57) | 0.31 (0.21) | (-0.10, 0.72) | 0.38 (0.21) | (-0.03, 0.80) | 0.52 (0.23) | (0.08, 0.96) | 0.81 (0.28) | (0.26, 1.36) |
|  |  |  |  |  |  |  |  |  |  |  |
| Mother alcohol consumption‡ | -0.42 (0.41) | (-1.22, 0.39) | -0.28 (0.40) | (-1.05, 0.50) | -0.23 (0.41) | (-1.02, 0.57) | -0.13 (0.44) | (-0.99, 0.74) | 0.09 (0.55) | (-0.99, 1.17) |
|  |  |  |  |  |  |  |  |  |  |  |
| Consistent parenting score | 0.12 (0.12) | (-0.12, 0.36) | -0.16 (0.12) | (-0.39, 0.07) | -0.27 (0.12) | (-0.51, -0.04) | -0.46 (0.13) | (-0.71, -0.21) | -0.82 (0.15) | (-1.12, -0.52) |
|  |  |  |  |  |  |  |  |  |  |  |
| Child physical functioning score | -0.03 (0.01) | (-0.05, -0.02) | -0.03 (0.01) | (-0.04, -0.02) | -0.03 (0.01) | (-0.04, -0.02) | -0.03 (0.01) | (-0.04, -0.02) | -0.03 (0.01) | (-0.05, -0.01) |
|  |  |  |  |  |  |  |  |  |  |  |
| Family financial hardship score | 0.28 (0.09) | (0.11, 0.45) | 0.41 (0.08) | (0.25, 0.58) | 0.46 (0.09)  | (0.30, 0.63) | 0.55 (0.09) | (0.37, 0.72) | 0.70 (0.11) | (0.49, 0.91) |