# Supplement 3. S3 Table of Descriptives for Children with and without Cognitive Data

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Relational Memory | Available Relational Memory Data | | Missing Relational Memory Data | | | t/Chi-sq | df | p-value |
|  | M | n | M | n | |  |  |  |
| Sensitivity | 0.25 | 237 | 0.17 | 164 | | 1.8 | 399 | .068 |
| SES | 3.40 | 236 | 3.29 | 158 | | 1.1 | 392 | .267 |
| Maternal Age | 30.92 | 237 | 30.45 | 164 | | 0.9 | 399 | .381 |
| Child Age at Testing | 1260 | 237 | 1250 | 90 | | 3.0 | 325 | **.003** |
| Child Postconceptual (Gestational Age + Age Since Birth) at Testing | 1532 | 237 | 1521 | 90 | | 3.1 | 325 | **.002** |
| Maternal Exposure (%>50%) | 130  (55.3%) | 235 | 73 (53.3%) | 137 | | 0.144 | 1 | .704 |
| Gender (%Male) | 115  (48.5) | 237 | 104 (63.4) | 164 | | 8.67 | 1 | **.003** |
| DCCS SE (%Pass) | 46  (23.6) | 195 | 12  (27.3) | 44 | | 0.27 | 1 | .607 |
| DCCS NSE (%Pass) | 49  (25.1) | 195 | 13  (35.1) | 37 | | 1.59 | 1 | .207 |
| Delay NSE | 8.05 | 220 | 7.32 | 57 | | 2.9 | 65.8 | **.005** |
| Delay SE | 7.99 | 220 | 7.283 | 53 | | 3.1 | 67.6 | **.002** |
|  | | | | | | | | |
| Cognitive Flexibility | Available Cognitive Flexibility Data | | Missing Cognitive Flexibility Data | | | t/chi-sq | Df | p-value |
|  | M | n | M | | n |  |  |  |
| Sensitivity | 0.26 | 208 | 0.18 | | 193 | 1.7 | 399 | .099 |
| SES | 3.53 | 203 | 3.17 | | 191 | 4.0 | 392 | .**000** |
| Maternal Age | 31.30 | 208 | 30.10 | | 193 | 2.3 | 399 | **.024** |
| Child Age at Testing | 1260 | 208 | 1254 | | 119 | 2.0 | 325 | .045 |
| Child Postconceptual (Gestational Age + Age Since Birth) at Testing | 1531 | 208 | 1526 | | 119 | 1.7 | 325 | .101 |
| Maternal Exposure (%>50%) | 104 (54.5%) | 191 | 99 (54.7%) | | 181 | 0.002 | 1 | 0.962 |
| Gender (%Male) | 95  (45.7) | 208 | 124  (64.2) | | 193 | 13.  94 | 1 | **.000** |
| Relational Binding NSE | 2.96 | 180 | 2.87 | | 63 | 0.553 | 241 | .581 |
| Relational Binding SE | 2.76 | 177 | 2.44 | | 62 | 2.24 | 237 | **.026** |
| SnackDelay NSE | 8.03 | 193 | 7.61 | | 84 | 2.4 | 141.8 | **.018** |
| StickerDelay SE | 7.98 | 194 | 7.54 | | 79 | 2.60 | 271 | **.010** |
|  | | | | | | | | |
| Inhibitory Control | Available Inhibitory Control Data | | Missing Inhibitory Control Data | | | t/chi-sq | Df | p-value |
|  | M | n | M | n | |  |  |  |
| Sensitivity | 0.26 | 259 | 0.14 | 142 | | 2.7 | 399 | **.008** |
| SES | 3.43 | 255 | 3.22 | 139 | | 2.2 | 392 | **.027** |
| Maternal Age | 31.31 | 259 | 29.65 | 142 | | 3 | 399 | **.002** |
| Child Age at Testing | 1260 | 259 | 1250 | 68 | | 2.5 | 325 | **.012** |
| Child Postconceptual (Gestational Age + Age Since Birth) at Testing | 1531 | 259 | 1522 | 68 | | 2.41 | 325 | **.017** |
| Maternal Exposure (%>50%) | 133 (55.4%) | 240 | 70 (53.0%) | 132 | | 0.196 | 1 | 0.658 |
| Gender (%Male) | 121  (46.7) | 259 | 98  (69.0) | 142 | | 18.39 | 1 | **.000** |
| Relational Binding NSE | 2.91 | 217 | 3.12 | 26 | | -1.2 | 37.2 | .229 |
| Relational Binding SE | 2.68 | 212 | 2.67 | 27 | | 0.61 | 237 | .951 |
| DCCS SE (%Pass) | 53  (25.0) | 212 | 5  (18.5) | 27 | | 0.55 | 1 | .459 |
| DCCS NSE (%Pass) | 59 (28.6) | 206 | 3 (11.5) | 26 | | 3.45 | 1 | .063 |

Table Note: This table includes descriptives of the 401 children who had prior maternal sensitivity data, and compares these demographics amongst those who had usable relevant cognitive data versus those who were missing relevant cognitive data. Sensitivity and socio-economic status are the two variables included in the main analyses with cognitive outcomes.

Children without the relevant cognitive data showed lower levels of maternal sensitivity and social-economic status. These did not reach statistical significance for relational memory. For cognitive flexibility, SES, but not sensitivity differed. In contrast, both sensitivity and SES differed between cases with and without inhibitory control data.

All 6 NSE and SE tasks in the main analyses are also considered here. Children without the relevant cognitive data showed poorer performance on inhibitory control tasks. Poorer SE relational memory was specific to those without cognitive flexibility data.

Other variables considered but not included in the main analyses include maternal age, child’s age, maternal exposure, and gender. Across all tasks, cases without the relevant cognitive data had a higher proportion of boys, and showed no difference in maternal exposure. Otherwise, differences in maternal and children’s age reached statistical differences, though it varied from task to task.

In sum, depending on the task, children without the relevant cognitive data may have been exposed to lower maternal sensitivity, SES, more likely to be male, slightly younger, have mothers who are slightly younger, and poorer performance on relational memory. These differences indicate that missingness cannot be considered to be completely at random (MCAR; Graham et al., 2009), as significant differences between children not analysed and those analysed in the main analyses were present.