**Appendix A; Attachment classification breakdown at age 4**

Table A1; *Attachment breakdown by group at age 4*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | *Rom>6 INS/OTH(-)* | | | | *Rom>6INS/OTH(+)* |
|  | Insecure-Avoidant | Secure | Insecure-Ambivalent/ Resistant | Disorganized |
| UK | 7 (14%) | 27 (55%) | 5 (10%) | 2 (4%) | 8 (16%) |
| Rom<6 | 6 (10%) | 25 (43%) | 6 (10%) | 5 (9%) | 16 (28%) |
| Rom>6 | 2 (5%) | 13 (33%) | 0 | 3 (7.7%) | 21 (54%) |

Notes; attachment classifications were based on the Strange Situation Procedure at age 4. Percentage totals may not sum due to rounding.

**Appendix B; Sidak corrected INS/OTH(-) vs INS/OTH(+) group comparisons of outcomes at age 4 in the LoDep and Rom>6 groups.**

|  |  |  |
| --- | --- | --- |
|  | LoDep  Mean diff (Standard Error) | Rom >6  Mean diff (Standard Error) |
| ASD | -0.01 (0.07)  p=.92 | -0.07 (0.12)  p=.57 |
| IQ | 3.57 (3.49)  p=.31 | **15.53 (4.89)**  **p=.003** |
| I/O | 0.02 (0.09)  p=.86 | -0.08 (0.15)  p=.59 |
| DSE | -0.11 (0.08)  p=.16 | -0.17 (0.14)  p=.24 |
| Emotional Probs | 0.03 (0.05)  p=.60 | -0.17 (0.09)  p=.057 |

Note; YAF= Young Adult Follow-Up

**Appendix C; Mixed effect model results assessing autism symptom trajectories for individuals with high and low levels of disinhibited social engagement at age 4 years (LoDep DSE-, LoDep DSE+, Rom>6 DSE-, Rom>6 DSE+).**

In order to investigate equivalence between disinhibited social engagement and INS/OTH classifications, we compared developmental trajectories of children with and without disinhibited social engagement at age four. In line with previous analyses (Sonuga-Barke et al., 2017) the presence of disinhibited social engagement was based on parental responses to three interview questions relating to interactions with strangers; being “too friendly”, showing “inappropriate intrusiveness”, and being “unaware of social boundaries”. Each item was rated on a scale of 0-2 (0= no evidence, 1= some evidence, 2= definite evidence). The DSE+ group comprised those where definite evidence was provided for at least two out of three questions.

The results of these analyses showed no evidence of a wave\*group interaction effect, as was found in the case of Rom>6INS/OTH(+) (Table C1). Furthermore, there were marked differences between patterns of autism symptoms over time (Figure C1).

Table C1; *Mixed effect model results for Autism symptoms over time with DSE+ and INS/OTH(+) as the risk factors*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *Risk Factor* | *Age* | *Dep*  *Status* | *Risk Factor* | *Three way Interaction* | *Attachment Status x Age in Rom>6* |
| INS/OTH | **F=11.42**  **p=.001** | F=1.73  p=.19 | F=0.01  p=.91 | **F=6.52**  **p<.001** | **F=4.22**  **p=.049** |
| Disinhibited social engagement | **F=10.09**  **p=.002** | F=3.82  p=.052 | F=0.86  p=.36 | F=1.61  p=.19 | F=0.18  p=.67 |

Note: Autism symptoms = parent rated 15 item SCQ.

Figure C1; Estimated marginal means of autism symptoms over time by disinhibited social engagement group and INS/OTH groupings, based on age 4 classifications