**Table A – Sensitivity Analysis – National Assessment Program – Literacy and Numeracy (NAPLAN): exempt multiply imputed**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Non-imputed crude data |  | Imputed data – causal modela |
| Mean (SE) |  | Potential Outcome Mean  |  | Regression co-efficient:ATE mean difference(95% Confidence Interval) |
|  | Control**(n=333,335)** | IVF**(n=8976)** |  | Control **(n=333,335)** | IVF**(n=1986-2016b)** |  |
| **Primary outcome - Overall Z-score**  |  |
|  | -0.007 (0.002) | 0.265 (0.011) |  | -0.027  | 0.023  | 0.004 (-0.046 to 0.053) |
| **Secondary outcomes – Individual domains Z-score** |  |
| Grammar and Punctuation | -0.027 (0.002) | 0.304 (0.013) |  | -0.001  | -0.007  | -0.006 (-0.060 to 0.049) |
| Numeracy | -0.031 (0.002) | 0.274 (0.012) |  |  0.008  |  0.022  |  0.014 (-0.038 to 0.066) |
| Reading | -0.027 (0.002) | 0.325 (0.012) |  |  0.003  | -0.007  | -0.010 (-0.063 to 0.043) |
| Spelling | -0.003 (0.002) | 0.185 (0.012) |  | -0.031  | -0.022  | -0.010 (-0.061 to 0.042) |
| Writing | -0.028 (0.002) | 0.238 (0.011) |  |  0.001  |  0.032  |  0.031 (-0.020 to 0.081) |
| Children with missing outcome data exempt from NAPLAN (2.1%) are included – with their missing z-score multiply imputed. a: Causal Model: imputed data pooled estimates – Regression adjustment model with stabilised inverse probability weighting, trimmed for complete weight overlap Abbreviations: NAPLAN – National Assessment Program for Literacy and Numeracy, IVF – in-vitro fertilisation (cases), ATE - Average Treatment Effect, SE – standard errorb: small variation in case number for each of the 20 imputation datasets |

**Table B – Sensitivity Analysis – National Assessment Program – Literacy and Numeracy (NAPLAN): exempt excluded**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Non-imputed crude data |  | Imputed data – causal modela |
| Mean (SE) |  | Potential Outcome Mean (SE) |  | Regression co-efficient:ATE mean difference(95% Confidence Interval) |
|  | Control**(n=326,117)** | IVF**(n=8,843)** |  | Control **(n=326,117)** | IVF**(n=1953-1976b)** |  |
| **Primary outcome - Overall Z-score**  |  |
|  | -0.007 (0.002) | 0.265 (0.011) |  | -0.022  | 0.020  |  0.002 (-0.047 to 0.051) |
| **Secondary outcomes – Individual domains Z-score** |  |
| Grammar and Punctuation |  0.012 (0.002) | 0.292 (0.012) |  |  0.006  | -0.001  | -0.007 (-0.061 to 0.048) |
| Numeracy |  0.018 (0.002) | 0.265 (0.012) |  |  0.013  |  0.023  |  0.010 (-0.042 to 0.062) |
| Reading |  0.015 (0.002) | 0.314 (0.012) |  |  0.009  | -0.003  | -0.012 (-0.065 to 0.041) |
| Spelling | -0.010 (0.002) | 0.176 (0.011) |  | -0.017  | -0.028  | -0.011 (-0.063 to 0.040) |
| Writing |  0.016 (0.002) | 0.228 (0.011) |  |  0.007  |  0.039  |  0.032 (-0.018 to 0.082) |
| Children with missing outcome data exempt from NAPLAN (2.1%) are excluded.a: Causal Model: imputed data pooled estimates – Regression adjustment model with stabilised inverse probability weighting, trimmed for complete weight overlap Abbreviations: NAPLAN – National Assessment Program for Literacy and Numeracy, IVF – in-vitro fertilisation (cases), ATE - Average Treatment Effect, SE – standard errorb: small variation in case number for each of the 20 imputation datasets |