Supplement 1. Distribution of risks and outcomes for children with observed and imputed data

AEDC outcome data were missing for 228 children. Of these, 221 were designated as special needs. The authors decided it was not appropriate to impute AEDC outcomes for these children. Therefore, we did not impute outcome data.

Missing values for risk factors were imputed using PROC MI in SAS Version 9.4. The proportions of missing data ranged from 0.02% (low birthweight) to 24.89% (primary caregiver education). We generated 25 imputed datasets, with results averaged according to Rubin’s rule\(^1\), using PROC MIANALYZE.

To account for arbitrary patterns of missingness, we used the fully conditional specification method\(^2\). After considering the administrative data, we did not add any auxiliary variables to the imputation process.
Table 1. Distribution of risks and outcomes for children with observed and imputed data

<table>
<thead>
<tr>
<th>Outcome</th>
<th>Number missing</th>
<th>Complete cases</th>
<th>Analytic sample (n = 5,440 x 25)</th>
<th>Imputation only sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>Developmentally vulnerable on one or more AEDC domains</td>
<td>228¹</td>
<td>20.9</td>
<td>20.9</td>
<td>-</td>
</tr>
</tbody>
</table>

**Risk factors**

**Child**

- Low birthweight (less than 2500 grams): 1, 6.1%, 6.1%, 0.0%
- Low gestational age (less than 37 completed weeks): 0, 8.2%, 8.2%, -
- Multiple birth: 0, 2.7%, 2.7%, -

**Maternal**

- Teenage mother at birth of child (less than 20 years): 0, 5.9%, 5.9%, -
- Mother Indigenous: 0, 4.7%, 4.7%, -
- Three or more previous pregnancies: 0, 26.2%, 26.2%, -
- Smoking in pregnancy: 0, 24.9%, 24.9%, -
- Alcohol use in pregnancy: 71, 11.2%, 11.2%, 11.6%
- Main carer education less than Year 11: 1354, 33.2%, 33.2%, 32.9%

**Family**

- Language other than English spoken at home by the child: 0, 1.9%, 1.9%, -
1 228 cases had missing AEDC data, of which 221 were designated as special needs. AEDC outcomes were not imputed for children with missing AEDC data.

### References
