

Supplementary Appendix A: Distribution of developmental vulnerability on one or more AEDC domains (DV1) and individual risk factors for children with observed and imputed data

	Number missing	Complete cases	Analytic sample ($n = 5,440 \times 25$)	Imputation only sample
AEDC Domain Category	n	%	%	%
Developmentally vulnerable on one or more AEDC domains (DV1)	228 ¹	20.9	20.9	–
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%	–
Index of Relative Socio-economic Disadvantage (IRSD) Quintile 1 (Most Disadvantaged)	2	24.9%	24.9%	14.0%

¹228 cases had missing AEDC domain categories, of which 221 were children with special needs. AEDC domain categories (DV1) were not imputed for children with missing AEDC domain categories.

Supplementary Appendix B: Statistical criteria for latent class models with 2-6 latent classes

Number of classes	A-BIC	Entropy
2	1520.45	0.81
3	1191.44	0.70
4	994.25	0.67
5	992.47	0.67
6	1016.09	0.68

Supplementary Appendix C: The distribution of individual and cumulative risk factors by service use group

	Regular service use group (46%)	Declining service use group (24%)	Low service use group (18%)	Selective service use group (12%)	Population average service use
Low birthweight	4.8%	7.5%	8.6%	5.0%	6.1%
Low gestational age	7.4%	8.5%	9.3%	8.9%	8.2%
Multiple birth	2.7%	4.2%	1.2%	2.4%	2.7%
Teenage mother at birth of child	5.1%	7.1%	7.4%	4.0%	5.9%
Indigenous mother	4.3%	4.6%	6.3%	4.3%	4.7%
Three or more previous pregnancies	18.9%	31.7%	38.4%	24.5%	26.2%
Smoking in pregnancy	17.2%	29.0%	40.1%	22.7%	24.9%
Alcohol use in pregnancy	10.0%	11.4%	13.5%	11.6%	11.2%
Main carer education less than year 11	29.2%	35.9%	41.9%	29.5%	33.2%
Language other than English spoken at home by the child	1.9%	1.4%	2.1%	2.8%	1.9%
Index of Relative Socio-Economic Disadvantage quintile 1 (most disadvantaged)	21.3%	25.7%	33.9%	23.6%	24.9%
0 risks	33.5%	24.3%	14.8%	29.8%	27.4%
1 risk	32.4%	26.1%	24.4%	30.4%	29.2%
2 risks	20.0%	23.5%	25.7%	20.9%	22.0%
3 risks	8.6%	15.8%	20.1%	11.6%	12.8%
4 risks	4.0%	6.5%	9.9%	4.9%	5.8%
5 risks	1.0%	2.9%	3.6%	1.8%	2.0%
6 risks	0.6%	0.7%	1.5%	0.5%	0.8%
7 risks	0.0%	0.0%	0.0%	0.1%	0.0%
8 risks	-	0.2%	-	-	0.0%

