**Supplementary Table 1** Factors associated with Centre for Epidemiological Studies-Depression (CES-D) scores

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | CES\_D >=16 | | | | | | | | | | | | |
| No  (n=2877) | | | | Yes  (n=901) | | | | Significance | | | | |
| Count | | Column N % | | Count | | Column N % | | OR | 95% CI | Adj OR | 95% CI | P | |
| Gender | Female | 1426 | | 49.6% | | 562 | | 62.4% | |  | |  | 1.75 | 1.49 - 2.06 | <0.001 | |
| Racial origin (a) | White | 2600 | | 92.70% | | 794 | | 91.60% | | 1.10 | | 0.93 – 1.31 | 1.06 | 0.88 – 1.26 | 0.546 | |
| Asian | 101 | | 3.60% | | 35 | | 4.00% | |
| Indigenous  Australian | 104 | | 3.70% | | 38 | | 4.40% | |
| Parental relationship at birth | Living together | 2613 | | 90.8% | | 776 | | 86.1% | | 0.63 | | 0.50 – 0.79 | 0.65 | 0.50 -0.82 | 0.001 | |
| Family income prior to birth | $10399 or less /year | 765 | | 26.60% | | 295 | | 32.70% | | 1.34 | | 1.14 – 1.58 | 1.04 | 0.67 - 1.59 | 0.869 | |
| Maternal education | Incomplete high | 437 | | 15.30% | | 162 | | 18.10% | | 1.14 | | 1.00 – 1.29 | 1.09 | 0.95 -1.24 | 0.225 | |
| Youth Income at 21 years | $0 to $159 per wk | 543 | | 19.1% | | 214 | | 24.0% | | 1.34 | | 1.12 – 1.61 | 1.30 | 1.07 - 1.57 | 0.006 | |
| Youth education | Tertiary level | 2104 | | 73.10% | | 690 | | 76.60% | | 0.83 | | 0.70 – 0.99 | 0.83 | 0.69 - 0.99 | 0.045 | |
| Youth relationships | Ever married | 620 | | 21.60% | | 214 | | 23.80% | | 0.88 | | 0.74 – 1.05 | 1.03 | 0.85 - 1.25 | 0.732 | |
| Residential area | Deprived | 211 | | 7.30% | | 143 | | 15.90% | | 2.38 | | 1.90 – 2.99 | 2.34 | 1.85 - 2.97 | <0.001 | |
| Any substantiated notifications | Yes | 112 | | 3.90% | | 59 | | 6.50% | | 1.73 | | 1.25 – 2.39 | 1.53 | 1.08- 2.17 | 0.015 | |
| Sexual | Yes | 37 | | 1.30% | | 17 | | 1.90% | | 1.48 | | 0.83 – 2.63 | 1.16 | 0.64 – 2.10 | 0.633 | |
| Physical | Yes | 45 | | 1.60% | | 33 | | 3.70% | | 2.39 | | 1.52 – 3.77 | 2.05 | 1.26 – 3.31 | 0.004 | |
| Emotional | Yes | 54 | | 1.90% | | 37 | | 4.10% | | 2.24 | | 1.46 – 3.47 | 2.10 | 1.34 -3.30 | 0.001 | |
| Neglect | Yes | 46 | | 1.60% | | 27 | | 3.00% | | 1.90 | | 1.17 – 3.08 | 2.76 | 1.03 – 2.89 | 0.038 | |
| Substantiated | > 1 | 124 | | 4.0% | | 59 | | 6.60% | | 1.48 | | 1.19 – 1.83 | 1.38 | 1.09 – 1.74 | 0.007 | |
| Emotional abuse or neglect | Yes | 76 | | 2.60% | | 44 | | 4.90% | | 1.89 | | 1.29 – 2.76 | 1.81 | 1.21 – 2.70 | 0.004 | |
| Substantiation for 2 or more subtypes | Yes | 50 | | 1.70% | | 36 | | 4.00% | | 2.35 | | 1.52 – 3.64 | 2.13 | 1.34 – 3.39 | 0.001 | |

1. Data were missing on 101 subjects

Variables used in adjustment: gender; parental race; maternal age; family income; maternal relationship status; maternal education; youth income level; youth education level; youth marital status.

**Supplementary Table 2** Internalising and externalising scores by substantiated notification

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Substantiated notifications | | N | Mean | Std. Deviation | Equal variances | t | df | Sig. (2-tailed) |
| Internal Problems-YASR at 21 | no | 3558 | 10.67 | 8.228 | assumed | -3.10 | 3723.00 | 0.002 |
| any | 167 | 12.70 | 9.290 | not assumed | -2.78 | 178.44 | 0.006 |
| External Problems-YASR at 21 | no | 3558 | 9.39 | 6.749 | assumed | -4.02 | 3723.00 | <0.001 |
| any | 167 | 11.55 | 7.717 | not assumed | -3.55 | 178.12 | <0.001 |
| Internal Problems-YASR at 21 | no | 3647 | 10.71 | 8.278 | assumed | -2.33 | 3722.00 | 0.020 |
| physical | 77 | 12.94 | 8.498 | not assumed | -2.27 | 79.08 | 0.026 |
| External Problems-YASR at 21 | no | 3647 | 9.43 | 6.771 | assumed | -3.26 | 3722.00 | 0.001 |
| physical | 77 | 11.99 | 8.101 | not assumed | -2.75 | 78.26 | 0.008 |
| Internal Problems-YASR at 21 | no | 3635 | 10.67 | 8.219 | assumed | -4.05 | 3722.00 | <0.001 |
| emotional | 89 | 14.27 | 10.158 | not assumed | -3.31 | 90.84 | 0.001 |
| External Problems-YASR at 21 | no | 3635 | 9.41 | 6.750 | assumed | -4.66 | 3722.00 | <0.001 |
| emotional | 89 | 12.80 | 8.306 | not assumed | -3.82 | 90.87 | <0.001 |
| Internal Problems-YASR at 21 | no | 3653 | 10.69 | 8.219 | assumed | -3.71 | 3722.00 | <0.001 |
| neglect | 71 | 14.37 | 10.716 | not assumed | -2.87 | 71.61 | 0.005 |
| External Problems-YASR at 21 | no | 3653 | 9.42 | 6.764 | assumed | -4.58 | 3722.00 | <0.001 |
| neglect | 71 | 13.14 | 8.066 | not assumed | -3.86 | 71.93 | <0.001 |
| Internal Problems-YASR at 21 | no | 3671 | 10.74 | 8.266 | assumed | -0.93 | 3722.00 | 0.352 |
| sexual | 53 | 11.81 | 9.684 | not assumed | -0.80 | 53.10 | 0.429 |
| External Problems-YASR at 21 | no | 3671 | 9.49 | 6.816 | assumed | -0.06 | 3722.00 | 0.949 |
| sexual | 53 | 9.55 | 6.402 | not assumed | -0.07 | 53.72 | 0.946 |
| Internal Problems-YASR at 21 | no | 3661 | 10.69 | 8.244 | assumed | -3.53 | 3723.00 | <0.001 |
| > 1 | 64 | 14.38 | 9.915 | not assumed | -2.95 | 64.53 | 0.004 |
| External Problems-YASR at 21 | no | 3661 | 9.43 | 6.793 | assumed | -3.78 | 3723.00 | <0.001 |
| > 1 | 64 | 12.67 | 6.967 | not assumed | -3.69 | 65.11 | <0.001 |
| Internal Problems-YASR at 21 | no | 3640 | 10.67 | 8.223 | assumed | -4.36 | 3723.00 | <0.001 |
| multiple | 85 | 14.62 | 10.015 | not assumed | -3.61 | 86.67 | 0.001 |
| External Problems-YASR at 21 | no | 3640 | 10.67 | 8.223 | assumed | -4.86 | 3723.00 | <0.001 |
| multiple | 85 | 14.62 | 10.015 | not assumed | -4.01 | 86.64 | <0.001 |

**Supplementary Table 3** Propensity score analyses

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Any substantiated abuse | | | |
| Adjusted OR/B (a) | p-value | Adjusted OR/B (b) | p-value |
| No psychiatric symptoms | 0.00/ 1.00 |  |  |  |
| Any symptoms |  |  |  |  |
| Depression (CES-D) | 1.49 (1.06 – 2.09) | 0.021 | 1.47 (1.04 – 2.07) | 0.029 |
| Internalising (YASR) | 1.30 (-0.18 – 2.63) | 0.053 | 1.23 (-0.77 – 8.45) | 0.065 |
| Externalising (YASR) | 2.28 (1.21 – 3.36) | <0.0001 | 1.86 (0.79 – 2.94) | <0.0001 |
| Depression (12-month prevalence) | 1.49 (0.89 – 2.51) | 0.13 | 1.53 (0.90 – 2.57) | 0.11 |
| Depression (Lifetime) | 1.57 (1.04 – 2.34) | 0.030 | 1.55 (1.03 – 2.33) | 0.037 |
| Anxiety (12-month prevalence) | 2.14 (1.44 – 3.19) | <0.0001 | 2.13 (1.43 – 3.91) | <0.0001 |
| Anxiety (Lifetime) | 1.84 (1.25 – 2.69) | 0.002 | 1.83 (1.24 – 2.71) | 0.002 |
| PTSD (12-month prevalence) | 3.28 (1.80 – 5.98) | <0.0001 | 3.23 (1.75 – 5.94) | <0.0001 |
| PTSD (Lifetime) | 3.55 (2.14– 5.87) | <0.0001 | 3.24 (1.93– 5.39) | <0.0001 |

1. Variables used in adjustment: gender; parental race; maternal age; family income; maternal relationship status; maternal education
2. Variables used in adjustment: gender; parental race; maternal age; family income; maternal relationship status; maternal education; youth income level; youth education level; youth marital status.