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**Table S1**      **Auxiliary variables**

<b>Variable, by conceptual group</b>	<b>Coding (levels)</b>	<b>Prevalence (median)</b>	<b>Missing, %</b>
<b>Child health</b>			
At least 2 investigated health problems by age 3	binary	7.4	32.8
Below 3rd pc weight at 4-8 months	binary	2.2	3.5
Birthweight < 3rd pc	binary	3.2	11.3
Birthweight > 97th pc	binary	3.4	11.3
Dysmature	binary	4.6	28.1
Gestational age < 37 weeks	binary	5.7	9.5
Perinatal stress	binary	20.9	24.8
Retrospective self-report of cognitive or behavioural problems while growing up	binary	10.9	60.7
Retrospective self-report of physical health problems while growing up	binary	12.0	60.7
<b>Child temperament</b>			
Highest tertile of behaviour problems composite, 1983	binary	23.4	0.4
Nurse's overall rating more difficult	binary	10.2	3.9
Mother's overall rating of child difficulty (1983)	ordinal (5)	(2)	2.7
Mother's overall rating of child difficulty (1984)	ordinal (5)	(3)	51.1
Mother's overall rating of child difficulty (1985)	ordinal (5)	(3)	48.3
Mother's overall rating of child difficulty (1988)	ordinal (5)	(3)	33.1
Mother's overall rating of child difficulty (1990)	ordinal (5)	(3)	38.3
Mother's overall rating of child difficulty (1992)	ordinal (5)	(3)	40.5
Mother's overall rating of child difficulty (1994)	ordinal (5)	(2)	43.1
Mother's overall rating of child difficulty (1995)	ordinal (5)	(3)	50.3
Mother's overall rating of child difficulty (1996)	ordinal (5)	(2)	45.5
Mother's overall rating of child difficulty (1998)	ordinal (5)	(2)	45.7
Mother's overall rating of child difficulty (2000)	ordinal (5)	(2)	50.5
Mother's overall rating of child difficulty (2002)	ordinal (5)	(2)	58.2
<b>Economic outcomes</b>			
ANU-4 occupational score > 50 (2006)	binary	62.0	64.0
ANU-4 occupational score > 50 (2010)	binary	42.8	64.9
Approximate weekly take-home income (2006)	ordinal (10)	(7)	61.2
Approximate weekly take-home income (2010)	ordinal (15)	(11)	59.1
At least university degree (2006)	binary	44.3	60.5
At least university degree (2010)	binary	51.2	59.4
Currently employed (2006)	binary	89.4	60.4
Currently employed (2010)	binary	89.6	58.2
Financial strain (2006)	binary	22.6	60.3
Financial strain (2010)	binary	20.1	58.5
Highest level of completed education (2006)	ordinal (13)	(4)	60.5
Highest level of completed education (2010)	ordinal (9)	(7)	59.4
Main source of income is government (2006)	binary	7.0	60.3

<b>Variable, by conceptual group</b>	<b>Coding (levels)</b>	<b>Prevalence (median)</b>	<b>Missing, %</b>
Main source of income is government (2010)	binary	4.6	58.8
Non-participation in labour force or study (2006)	binary	7.0	60.4
Non-participation in labour force or study (2010)	binary	3.9	60.4
Not completed high school or TAFE (2006)	binary	6.5	60.5
Not completed high school or TAFE (2010)	binary	7.6	58.8
Receiving government allowance (2006)	binary	13.7	60.3
Receiving government allowance (2010)	binary	13.0	58.2
Self-rating of current financial situation (2006)	binary	2.0	60.5
Self-rating of current financial situation (2010)	binary	2.0	58.5
<b>Economic risk factors</b>			
At least 'somewhat' poor while growing up	binary	17.8	60.5
At least 2 points of parental unemployment	binary	27.0	51.7
Family did not own home by age 7	binary	8.7	22.7
Father's first reported education < diploma	binary	70.8	2.7
Father's first reported occupation < professional/managerial	binary	60.6	1.6
Mother's first reported education < diploma	binary	76.1	0.9
Mother's first reported occupation < professional/managerial	binary	73.9	1.9
<b>Mental health &amp; substance use outcomes</b>			
At least 1 cigarette per day in last month (2006)	binary	29.7	61.1
Ever tried LSD etc (2006)	binary	7.0	61.0
Ever tried amphetamines (2006)	binary	21.6	61.0
Ever tried cocaine etc (2006)	binary	11.4	61.1
Ever tried ecstasy etc (2006)	binary	25.9	60.9
Ever tried heroin etc (2006)	binary	1.1	61.1
Ever tried ice etc (2006)	binary	4.8	61.1
Ever tried non-prescribed sleeping tablets (2006)	binary	5.7	61.1
Ever tried other illegal drugs (2006)	binary	3.0	64.8
Ever tried sniffing (2006)	binary	1.9	61.1
Ever used marijuana (2006)	binary	62.4	60.5
Reported mental health condition (2006 or 2010)	binary	9.4	52.1
Taking antidepressant (2006 or 2010)	binary	6.3	60.3
Taking mental health medication (2006 or 2010)	binary	6.9	60.3
Tertiles of bad effects of alcohol use score (2006)	ordinal (3)	(2)	64.6
Tertiles of days drank alcohol in last month (2006)	ordinal (3)	(2)	61.3
Tertiles of days drank 5/3 drinks in last month (2006)	ordinal (3)	(2)	65.0
Tertiles of days drank 7/5 drinks in last month (2006)	ordinal (3)	(2)	65.2
Used amphetamines in past month (2006)	binary	7.9	61.0
Used cocaine in past month (2006)	binary	4.5	61.1
Used ecstasy in past month (2006)	binary	9.4	60.9
Used ice in past month (2006)	binary	0.9	61.1

<b>Variable, by conceptual group</b>	<b>Coding (levels)</b>	<b>Prevalence (median)</b>	<b>Missing, %</b>
Used LSD in past month (2006)	binary	1.4	61.0
Used marijuana in past month (2006)	binary	13.7	60.5
Used non-prescribed sleeping tablets in past month (2006)	binary	2.1	61.1
Used other drugs in past month (2006)	binary	0.9	64.8
<b>Parental alcohol and tobacco use</b>			
Either parent smoked	binary	67.4	40.8
Father ex or heavy drinker during adolescence	binary	7.9	41.5
Mother ex or heavy drinker during adolescence	binary	2.1	41.5
<b>Physical health outcomes</b>			
Has a long-term health problem (2006)	binary	21.8	60.7
Have a long term health problem (2010)	binary	17.9	61.6
Rating of physical health over past year (2006)	ordinal (5)	(4)	60.5
Rating of physical health over past year (2010)	ordinal (5)	(4)	59.0
Regularly uses prescribed medications (2006)	binary	17.9	60.7
Regularly use prescribed medication (2010)	binary	17.1	61.0
Weight status: not overweight, overweight, obese (2006)	ordinal (3)	(1)	64.2
Weight status: not overweight, overweight, obese (2010)	ordinal (3)	(1)	60.5
<b>Responsiveness of parents and cohort members</b>			
Cohort responded to both Waves 14 and 15 (neither = missing)	binary	65.9	50.9
Mean proportion of items completed by cohort member on average in waves 14 and 15 >90% (missing if neither completed)	binary	88.8	50.9
Proportion of waves completed by parents prior to final response ( $\leq 75\%$ , 75–85%, $\geq 85\%$ ; missing if lost to follow-up by wave 4)	ordinal (3)	(3)	20.3
Proportion of items completed by parents in wave 1 $\geq 85\%$	binary	90.1	0.0
Mean proportion of items completed by parents in waves 2–13 (ordinal: $\leq 90\%$ , 90–95%, $> 95\%$ )	ordinal (3)	(3)	14.9
<b>Social outcomes</b>			
Appeared in court as offender (2006)	binary	1.3	60.4
Approximately less than 20yo at birth of 1st natural child (2006)	binary	1.2	61.2
Approximately less than 22yo at birth of 1st natural child (2006)	binary	3.0	61.2
Been charged by police (2006)	binary	2.3	60.4
Easy to become emotionally close to a partner (2006)	ordinal (5)	(4)	60.8
Easy to become emotionally close to a partner (2010)	ordinal (5)	(6)	60.7

<b>Variable, by conceptual group</b>	<b>Coding (levels)</b>	<b>Prevalence (median)</b>	<b>Missing, %</b>
Engaged or married (2006)	binary	15.0	60.7
Had contact with police re driving offence (2006)	binary	13.4	60.4
Had contact with police re non-driving offence (2006)	binary	2.1	60.5
In a relationship (2006)	binary	70.1	60.6
In a relationship (2010)	binary	79.3	60.3
Living alone (2006)	binary	7.8	60.3
Living alone (2010)	binary	7.7	58.2
Living with parents (2006)	binary	38.3	60.3
Living with parents (2010)	binary	16.3	58.2
Tertiles of frequency of antisocial behaviours (2006)	ordinal (3)	(1)	60.4
Tertiles of total number of differing antisocial behaviours (2006)	ordinal (3)	(1)	60.3
<b>Social risk factors</b>			
At least 10 house moves in childhood	binary	1.9	32.2
At least one parent from non-ES country	binary	22.0	2.3
Father < 22yo at birth	binary	2.5	1.6
Gender = male	binary	51.9	0.0
More than 0.5 school moves per year	binary	8.7	35.3
More than 4 children in family	binary	5.8	32.4
Mother < 22yo at birth	binary	7.3	0.1
Parental separation or divorce	binary	20.2	49.5

ANU-4: Australian National University 4 occupational ranking system

**Table S2 Association (odds ratios) between indicators of parent and cohort responsiveness and indicators of adverse childhood experiences**

	Physical abuse	Sexual abuse	Neglect	Emotional abuse (any)	WDV	PMI	PSUP	Any ACE
<b>Wave response</b>								
<i>Parents<sup>a</sup></i>								
Low (<75%)	1.81	1.97	1.98	1.49	2.10	1.58	1.17	1.62
Mid (75-85%)	1.38	0.58	1.29	1.37	0.59	1.43	1.70	1.40
High (≥85%)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)
<i>Cohort<sup>b</sup></i>								
Responded in wave 14 only	1.14	0.91	1.56	1.51	1.36	1.69	1.42	1.58
Responded in waves 14 and 15	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)
<b>Item response</b>								
<i>Parents, wave 1<sup>c</sup></i>								
Low (<85%)	2.38	2.07	1.21	1.78	1.35	1.60	0.85	2.09
High (≥85%)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)
<i>Parents, other waves<sup>d</sup></i>								
Low (≤90%)	2.29	3.90	3.16	1.52	2.21	1.94	1.94	2.25
Mid (90-95%)	2.05	1.74	1.80	1.58	3.05	0.85	1.66	1.51
High (>95%)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)
<i>Cohort, waves 15 and 16<sup>e</sup></i>								
Low (≤90%)	0.67	1.58	0.77	1.60	0.98	1.76	0.60	1.47
High (>90%)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)

ACE: adverse childhood experience; PMI: parental mental illness; PSUP: parental substance use problems; WDV: witnessed domestic violence. <sup>a</sup>proportion of waves responded to prior to being lost to follow-up, set to missing if lost prior to wave 4; <sup>b</sup>set to missing if did not respond to either wave 14 or wave 15; <sup>c</sup>wave 1 was separated because of complete wave response among enrolled sample; <sup>d</sup>proportion of items completed in other waves to which parents responded; <sup>e</sup>proportion of items completed in waves 14 and 15 where cohort member responded to that wave.

**Table S3 Association (odds ratios) between indicators of parent and cohort responsiveness and missingness in indicators of adverse childhood experiences**

	Physical abuse	Sexual abuse	Neglect	Missingness in:			PMI	PSUP	Any ACE
				Emotional abuse	WDV				
				(any)					
<b>Wave response</b>									
<i>Parents<sup>a</sup></i>									
Low (<75%)	2.84	2.81	2.85	2.85	2.84	2.87	2.87	2.90	
Mid (75-85%)	2.06	2.04	2.05	2.07	2.06	2.01	2.01	2.03	
High (≥85%)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	
<i>Cohort<sup>b</sup></i>									
Responded in wave 14 only	536.18	183.03	267.43	213.68	215.73	77.66	77.66	53.85	
Responded in waves 14 and 15	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	
<b>Item response</b>									
<i>Parents, wave 1<sup>c</sup></i>									
Low (<85%)	1.53	1.51	1.53	1.52	1.58	1.52	1.52	1.54	
High (≥85%)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	
<i>Parents, other waves<sup>d</sup></i>									
Low (≤90%)	3.28	3.31	3.27	3.26	3.32	3.36	3.36	3.34	
Mid (90-95%)	0.85	0.88	0.86	0.86	0.86	0.85	0.85	0.86	
High (>95%)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	
<i>Cohort, waves 15 and 16<sup>e</sup></i>									
Low (≤90%)	2.00	2.24	2.22	2.29	2.11	2.05	2.05	2.23	
High (>90%)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	

ACE: adverse childhood experience; PMI: parental mental illness; PSUP: parental substance use problems; WDV: witnessed domestic violence. <sup>a</sup>proportion of waves responded to prior to being lost to follow-up, set to missing if lost prior to wave 4; <sup>b</sup>set to missing if did not respond to either wave 14 or wave 15; <sup>c</sup>wave 1 was separated because of complete wave response among enrolled sample; <sup>d</sup>proportion of items completed in other waves to which parents responded; <sup>e</sup>proportion of items completed in waves 14 and 15 where cohort member responded to that wave.