	Observed sample (no restrictions) ⁺ (n=15381)	Multiply imputed sample (n=9240)	Complete case sample (n= 7524)
Variables recorded at 3 years			
Sex of child			
Male	51.1 (7866)	51.1	50.8 (3775)
Female	48.9 (7515)	48.9	49.2 (3749)
Maternal highest qualification			
A/AS/S levels and above	38.4 (5842)	38.9	42.7 (3550)
O levels/GCSEs A-C	34.5 (5100)	37.2	37.3 (2648)
O levels/GCSEs D-G and below	27.1 (4386)	23.8	20.0 (1326)
Item missing	53		
Maternal age at cohort child's birth			
14 – 19 years	7.9 (1214)	7.8	6.6 (391)
20 – 29 years	44.3 (6935)	44.5	43.7 (3137)
30 – 39 years	45.2 (6830)	45.1	47.2 (3791)
40 years and above	2.5 (391)	2.6	2.5 (205)
Item missing	11		
Ethnicity			
White	88.5 (12501)	93.4	94.4 (7066)
Mixed	0.9 (133)	0.9	0.9 (51)
Indian	2.0 (377)	1.4	1.3 (110)
Pakistani/Bangladeshi	4.3 (938)	1.9	1.4 (132)
Black or Black British	2.8 (451)	1.8	1.5 (108)
Other	1.5 (244)	0.7	0.6 (57)
Item missing	737		
Diagnosed depression/anxiety (ever)			
No diagnosis	65.0 (9953)	64.3	65.1 (4966)
Diagnosis	35.0 (5320)	35.7	34.9 (2558)
Item missing	108		
Psychological distress (3 years)			
No/low distress	66.4 (8992)	66.2	67.5 (5171)
Medium distress	30.3 (4121)	30.5	29.7 (2161)
High distress	3.2 (476)	3.3	2.9 (192)
Scale items missing	1792		· · ·
Household income quintiles			
Lowest quintile	20.1 (3307)	17.6	15.3 (1028)
Second quintile	19.9 (3335)	19.7	17.8 (1332)
Third quintile	20.0 (2992)	21.0	21.2 (1609)
Fourth quintile	20.0 (2862)	21.0	22.7 (1763)
Highest quintile	20.0 (2701)	20.6	23.0 (1792)

Supplementary Appendix 1: Frequency distributions or means of study variables, according to sample

Item missing	184		
Family structure			
Couple family	82.3 (12503)	83.7	85.3 (6583)
Lone parent family	17.7 (2678)	16.3	14.7 (941)
Item missing	200		()
5			
Housing tenure			
Mortgage / own outright	64.5 (9790)	66.7	70.8 (5652)
rent privately	7.4 (1113)	6.9	5.9 (408)
Social housing	24.8 (3799)	23.4	20.3 (1253)
Other	3.4 (540)	2.3	3.0 (211)
Item missing	139		
Number of children in household			
One	25.4 (3941)	24.9	25.1 (1925)
Тмо	46.5 (6846)	48.1	49.0 (3640)
Three	18.6 (2943)	18.6	18.1 (1365)
four or more	9.6 (1649)	8.4	7.8 (594)
Item missing	2	0.4	7.0 (334)
nem missing	2		
Parental harsh discipline ¹			
Mean (SE)	12.1 (0.04)	12.2 (0.04)	12.3 (0.04)
Scale items missing	2836	(0.0.1)	
, and the second s			
Child-Parent conflict ²			
Mean (SE)	17.3 (0.07)	17.4 (0.09)	17.3 (0.09)
Scale items missing	2370		
Child-Parent Closeness ³			
Mean (SE)	33.5 (0.03)	33.5 (0.03)	33.6 (0.03)
Scale items missing	2636		
Child Conduct Problems ^₄			
Mean (SE)	2.8 (0.03)	2.8 (0.03)	2.7 (0.03)
Scale items missing	811	2.0 (0.00)	217 (0100)
g			
Child Hyperactivity⁵			
Mean (SE)	3.9 (0.3)	3.9 (0.04)	3.7 (0.04)
Scale items missing	949		
-			
Variables recorded at 5 years			
Injury 3 to 5 years			
None	71.8 (10766)	72.6	73.0 (5515)
One	22.7 (3383)	22.6	22.5 (1673)
Two or more	5.5 (808)	4.8	4.6 (336)
item missing	84		
Not present at relevant sweep	340		
Diagnosed depression/anxiety (ever)	(0.2.(00.40)	50.5	
No diagnosis	60.2 (9049)	59.5	56.9 (4377)

Diagnosis Item missing Not present at relevant sweep	39.4 (5918) 74 340	40.5	43.1 (3147)
Psychological distress (5 years) No/low distress Medium distress High distress Item missing Not present at relevant sweep	67.5 (9497) 29.2 (4135) 3.3 (507) <i>902</i> 340	68.2 28.5 3.3	69.7 (5322) 27.7 (2015) 2.7 (187)
Psychological distress (highest reported, 3 and 5 year sweeps) No/low distress		54.0	FC C (4242)
Medium distress Medium distress High distress Scale items missing Not present at relevant sweep	55.7 (6558) 39.2 (4685) 5.2 (642) 3156 340	54.9 39.6 5.5	56.6 (4343) 38.8 (2861) 4.6 (320)
<i>Household income quintiles</i> Lowest quintile	20.1 (3346)	16.8	14.3 (971)
Second quintile	19.9 (3209)	19.6	18.3 (1343)
Third quintile	20.1 (2908)	21.3	21.6 (1638)
Fourth quintile	19.9 (2855)	21.0	22.1 (1763)
Highest quintile	20.0 (2614)	21.4	23.7 (1809)
Item missing	109		
Not present at relevant sweep	340		
Family structure			
Couple family	80.2 (12006)	81.5	82.9 (6402)
Lone parent family	19.8 (2981)	18.5	17.1 (1122)
Item missing	54		(<i>'</i>
Not present at relevant sweep	340		
Housing tenure	64.0 (0626)	67.2	71 1 (5701)
Mortgage / own outright rent privately	64.9 (9636) 8.5 (1250)	67.2 7.5	71.1 (5701) 6.9 (445)
Social housing	23.9 (3647)	22.8	0.9 (443) 19.7 (1210)
Other	2.7 (419)	2.5	2.4 (168)
Item missing	89		(,
Not present at relevant sweep	340		
Number of children in household			
one	16.6 (2483)	16.3	16.3 (1207)
two	48.1 (6986)	49.8	51.0 (3847)
three	23.4 (3574)	23.2	22.8 (1739)
four or more	12.0 (1997)	10.6	10.0 (731)
Item missing	1		
Not present at relevant sweep	340		

Parental harsh discipline¹

Mean (SE) Scale items missing Not present at relevant sweep	10.9 (0.03) 1245 340	11.0 (0.04)	11.0 (0.04)
Child Conduct Problems⁴ Mean (SE) Scale items missing Not present at relevant sweep	1.5 (0.02) 494 340	1.5 (0.02)	1.4 (0.02)
Child Hyperactivity ⁵ Mean (SE) Scale items missing Not present at relevant sweep	3.3 (0.03) 580 340	3.3 (0.04)	3.1 (0.04)
Variables recorded at 7 years			
Injury 5-7 years None One Two or more items missing Not present at relevant sweep	75.5 (10356) 19.9 (2672) 4.6 (573) 80 1700	75.9 19.6 4.5	76.6 (5786) 19.3 (1464) 4.1 (274)
Diagnosed depression/anxiety (ever) No diagnosis Diagnosis item missing Not present at relevant sweep	56.2 (7769) 43.8 (5834) 78 1700	55.9 44.1	56.9 (4377) 43.1 (3147)
Psychological distress (7 years) No/low distress Medium distress High distress item missing Not present at relevant sweep	67.4 (8833) 28.8 (3687) 3.8 (471) 690 1700	68.6 27.8 3.6	70.0 (5345) 27.0 (1984) 3.0 (195)
Psychological distress (highest reported, 3, 5, 7 year sweeps) No/low distress Medium distress High distress item missing Not present at relevant sweep	48.2 (5097) 44.5 (4599) 7.3 (724) 3261 1700	47.9 44.6 7.5	49.5 (3828) 44.2 (3262) 6.4 (434)
Household income quintiles Lowest quintile Second quintile Third quintile Fourth quintile Highest quintile <i>item missing</i> Not present at relevant sweep	20.1 (2820) 20.0 (2830) 20.0 (2768) 19.9 (2653) 20.0 (2590) 20 1700	16.0 18.6 21.0 22.2 22.1	13.5 (968) 17.1 (1265) 21.0 (1627) 23.8 (1798) 24.6 (1866)

Family structure			
Couple family	78.6 (10750)	79.8	81.5 (6279)
Lone parent family	21.0 (2870)	20.2	18.5 (1245)
item missing	61		
Not present at relevant sweep	1700		
Housing tenure			
Mortgage / own outright	62.9 (8996)	67.0	71.0 (5735)
rent privately	9.7 (1177)	8.8	8.1 (497)
Social housing	24.8 (3092)	22.0	18.8 (1153)
Other	2.6 (323)	2.2	2.1 (139)
item missing	93		
Not present at relevant sweep	1700		
Number of children in boundhold			
Number of children in household	12 2 (1771)	12.0	12.0 (064)
One	13.3 (1771)	13.0	12.9 (964)
Two	46.2 (6187)	48.3	49.3 (3730)
three	26.8 (3699)	27.0	26.8 (2024)
four or more	13.8 (2024)	11.7	10.9 (806)
item missing	0		
Not present at relevant sweep	1700		
Parental harsh discipline ¹			
Mean (SE)	10.4 (0.03)	10.5 (0.04)	10.6 (0.04)
Scale items missing	1037		
Not present at relevant sweep	1700		
Child Conduct Problems ⁴			
Mean (SE)	1.4 (0.02)	1.4 (0.05)	1.3 (0.03)
Scale items missing	383		
Not present at relevant sweep	1700		
Child Hyperactivity⁵			
Mean (SE)	3.4 (0.03)	3.3 (0.04)	3.2 (0.04)
Scale items missing	433		012 (010 1)
Not present at relevant sweep	1700		
	1700		
Variables recorded at 11 years			
Injury 7- 11years			
None	61.7 (8236)	61.6	61.7 (4700)
One	26.5 (3329)	26.6	26.7 (1985)
Two or more	11.8 (1432)	11.8	11.7 (839)
items missing	115		
Not present at relevant sweep	2269		

⁺Observations weighted to account for sample design and attrition to relevant sweep

¹ Conflict Tactics Scale items, scoring range 4-20 (high score reflects more frequent use of harsh disciplinary behaviours by mother)

² CPRS: Short-Form; Conflicts subscale, scoring range 5-40 (high score reflects greater conflict between mother and child)

³ CPRS: Short-Form; Closeness subscale, scoring range 5-35 (high score reflects greater closeness between mother and child)

⁴ SDQ: Conduct Problems subscale, scoring range 0-10 (high score reflects greater levels of conduct problems)

⁵ SDQ: Hyperactivity subscale, scoring range 0-10 (high score reflects greater levels of hyperactivity)