

Supplementary Material

Table S1: Distribution of key sociodemographic characteristics by maternal records linked and not linked to postcode history in the PICNIC London birth cohort, 2010-2014

Characteristic	All children <i>n</i> (%)	Children whose maternal records linked to at least one postcode record <i>n</i> (%)	Children whose maternal records did not link to postcode records <i>n</i> (%)
Overall	565,734 (100)	499,100 (85.9)	66,634 (14.1)
Mother's age			
<20y	13,590 (2.4)	11,457 (2.3)	2,133 (3.2)
20-24y	71,234 (12.6)	61,295 (12.3)	9,939 (14.9)
25-29y	146,055 (25.8)	127,812 (25.6)	18,244 (27.4)
30-34y	190,929 (33.8)	169,946 (34.1)	20,984 (31.5)
35-39y	113,883 (20.1)	101,917 (20.4)	11,966 (18.0)
40+	30,043 (5.3)	26,675 (5.3)	3,368 (5.1)
Mother's country of birth			
UK	260,152 (46.0)	227,732 (45.6)	32,421 (48.7)
Europe (excl. UK)	98,599 (17.4)	87,996 (17.6)	10,604 (15.9)
Middle East & Asia	103,985 (18.4)	93,402 (18.7)	10,583 (15.9)
Africa	74,700 (13.2)	64,966 (13.0)	9,734 (14.6)
Antarctica & Oceania	6,514 (1.2)	5,967 (1.2)	547 (0.8)
The Americas	14,862 (2.6)	13,297 (2.7)	1,565 (2.4)
The Caribbean	6,901 (1.2)	5,722 (1.2)	1,179 (1.8)
Missing	21 (<0.1)	1 (<0.1)	20 (<0.1)
Child's year of birth			
2010	38,280 (6.8)	30,996 (6.2)	7,284 (10.9)
2011	130,612 (23.1)	108,664 (21.8)	21,949 (32.9)
2012	136,624 (24.2)	117,327 (23.5)	19,297 (29.0)
2013	130,840 (23.1)	122,609 (24.6)	8,232 (12.4)
2014	129,378 (22.9)	119,506 (23.9)	9,872 (14.8)
Index of Multiple Deprivation (IMD) quintile			
1 (most deprived)	156,196 (27.6)	135,178 (27.1)	21,018 (31.5)
2	169,908 (30.0)	149,595 (30.0)	20,313 (30.5)
3	109,192 (19.3)	97,321 (19.5)	11,871 (17.8)
4	75,781 (13.4)	68,296 (13.7)	7,485 (11.2)
5 (least deprived)	53,376 (9.4)	48,353 (9.7)	5,023 (7.5)
Missing	1,281 (0.2)	357 (0.1)	924 (1.4)

Table S2: Distribution of key demographic characteristics by maternal^a residential history in the PICNIC London birth cohort, 2010-2014

Characteristic	All children <i>n</i> (%)	Number of postcode changes during pregnancy		Postcode changes within London or between London and outside London during pregnancy	
		None <i>n</i> (%)	At least once <i>n</i> (%)	London <i>n</i> (%)	London and non-London <i>n</i> (%)
Overall	565,734 (100)	379,994 (67.2)	185,740 (32.8)	469,354 (96.7)	16,036 (3.3)
Mother's age					
<20y	13,590 (2.4)	7,750 (2.0)	5,840 (3.1)	10,310 (2.2)	719 (4.5)
20-24y	71,234 (12.6)	41,308 (10.9)	29,926 (16.1)	56,369 (12.0)	3,092 (19.3)
25-29y	146,055 (25.8)	92,355 (24.3)	53,700 (28.9)	119,283 (25.4)	4,688 (29.2)
30-34y	190,929 (33.8)	131,660 (34.6)	59,269 (31.9)	160,708 (34.2)	4,757 (29.7)
35-39y	113,883 (20.1)	83,859 (22.1)	30,024 (16.2)	97,137 (20.7)	2,282 (14.2)
40+	30,043 (5.3)	23,062 (6.1)	6,981 (3.8)	25,545 (5.4)	498 (3.1)
Mother's country of birth					
UK	260,152 (46.0)	183,476 (48.3)	76,676 (41.3)	213,607 (45.5)	9,232 (57.6)
Europe (excl. UK)	98,599 (17.4)	59,687 (15.7)	38,912 (20.9)	83,085 (17.7)	1,825 (11.4)
Middle East & Asia	103,985 (18.4)	69,163 (18.2)	34,822 (18.7)	87,949 (18.7)	2,723 (17.0)
Africa	74,700 (13.2)	49,787 (13.1)	24,913 (13.4)	61,025 (13.0)	1,797 (11.2)
Antarctica & Oceania	6,514 (1.2)	4,265 (1.1)	2,249 (1.2)	5,751 (1.2)	88 (0.6)
The Americas	14,862 (2.6)	9,181 (2.4)	5,681 (3.1)	12,531 (2.7)	242 (1.5)
The Caribbean	6,901 (1.2)	4,421 (1.2)	2,480 (1.3)	5,387 (1.2)	129 (0.8)
Missing	21 (<0.1)	14 (<0.1)	7 (<0.1)	19 (<0.1)	0
Child's year of birth					
2010	38,280 (6.8)	25,511 (6.7)	12,769 (6.9)	29,139 (6.2)	1,123 (7.0)
2011	130,612 (23.1)	87,928 (23.1)	42,684 (23.0)	104,743 (22.3)	3,750 (23.4)
2012	136,624 (24.2)	92,198 (24.3)	44,426 (23.9)	113,315 (24.1)	3,915 (24.4)
2013	130,840 (23.1)	88,021 (23.2)	42,819 (23.1)	111,171 (23.7)	3,673 (22.9)
2014	129,378 (22.9)	86,336 (22.7)	43,042 (23.2)	110,96 (23.7)	3,575 (22.3)
Index of Multiple Deprivation (IMD) quintile					
1 (most deprived)	156,196 (27.6)	105,178 (27.7)	51,018 (27.5)	127,355 (27.1)	3,475 (21.7)
2	169,908 (30.0)	112,606 (29.6)	57,302 (30.9)	140,979 (30.0)	4,582 (28.6)
3	109,192 (19.3)	72,985 (19.2)	36,207 (19.5)	91,504 (19.5)	3,341 (20.8)
4	75,781 (13.4)	51,239 (13.5)	24,542 (13.2)	64,070 (13.7)	2,509 (15.7)
5 (least deprived)	53,376 (9.4)	36,998 (9.7)	16,378 (8.8)	45,126 (9.6)	2,115 (13.2)
Missing	1,281 (0.2)	998 (0.3)	293 (0.2)	320 (0.1)	14 (0.1)

^aMothers who did not link to postcode records are not included in these columns.



Table S3: Distribution of key demographic characteristics by child residential history in the PICNIC London birth cohort, 2010–2014

Characteristic	All children <i>n</i> (%)	Number of postcode changes during infancy		Postcode changes within London or between London and outside London during infancy	
		None <i>n</i> (%)	At least once <i>n</i> (%)	London <i>n</i> (%)	London and non-London <i>n</i> (%)
Overall	565,734 (100)	291,456 (51.5)	274,278 (48.5)	541,900 (95.8)	23,834 (4.2)
Mother's age (yrs)					
<20	13,590 (2.4)	4,460 (1.5)	9,130 (3.3)	12,743 (2.4)	847 (3.6)
20-24	71,234 (12.6)	27,394 (9.4)	43,840 (16.0)	67,649 (12.5)	3,585 (15.0)
25-29	146,055 (25.8)	68,317 (23.4)	77,738 (28.3)	139,742 (25.8)	6,313 (26.5)
30-34	190,929 (33.8)	103,312 (35.4)	87,617 (31.9)	182,926 (33.8)	8,003 (33.6)
35-39	113,883 (20.1)	68,619 (23.5)	45,264 (16.5)	109,754 (20.3)	4,129 (17.3)
40+	30,043 (5.3)	19,354 (6.6)	10,689 (3.9)	29,084 (5.4)	957 (4.0)
Child's sex					
Female	275,513 (48.7)	142,176 (48.8)	133,233 (48.6)	263,981 (48.7)	11,532 (48.4)
Male	290,221 (51.3)	149,176 (51.2)	141,045 (51.4)	277,919 (51.3)	12,302 (51.6)
Mother's country of birth					
UK	260,152 (46.0)	140,367 (48.2)	119,785 (43.7)	246,329 (45.5)	13,823 (58.0)
Europe (non-UK)	98,599 (17.4)	45,854 (15.7)	52,745 (19.2)	95,340 (17.6)	3,259 (13.7)
Middle East & Asia	103,985 (18.4)	54,112 (18.6)	49,873 (18.2)	100,633 (18.6)	3,352 (14.1)
Africa	74,700 (13.2)	37,445 (12.8)	37,255 (13.6)	72,083 (13.3)	2,617 (11.0)
Antarctica & Oceania	6,514 (1.2)	3,358 (1.2)	3,156 (1.2)	6,314 (1.2)	200 (0.8)
The Americas	14,862 (2.6)	7,075 (2.4)	7,787 (2.8)	14,450 (2.7)	412 (1.7)
The Caribbean	6,901 (1.2)	3,233 (1.1)	3,668 (1.3)	6,730 (1.2)	171 (0.7)
Missing	21 (<0.1)	12 (<0.1)	9 (<0.1)	21 (<0.1)	0
Child's year of birth					
2010	38,280 (6.8)	19,597 (6.7)	18,683 (6.8)	36,816 (6.8)	1,464 (6.1)
2011	130,612 (23.1)	67,511 (23.2)	63,101 (23.0)	125,615 (23.2)	4,997 (21.0)
2012	136,624 (24.2)	70,205 (24.1)	66,419 (24.2)	131,01 (24.2)	5,553 (23.3)
2013	130,840 (23.1)	67,169 (23.0)	63,671 (23.2)	125,145 (23.1)	5,695 (23.9)
2014	129,378 (22.9)	66,974 (23.0)	62,404 (22.8)	123,253 (22.7)	6,125 (25.7)
Index of Multiple Deprivation (IMD) quintile					
1 (most deprived)	156,196 (27.6)	79,672 (27.3)	76,524 (27.9)	150,847 (27.8)	5,349 (22.4)
2	169,908 (30.0)	85,062 (29.2)	84,846 (30.9)	162,422 (30.0)	7,486 (31.4)
3	109,192 (19.3)	55,577 (19.1)	53,615 (19.5)	104,102 (19.2)	5,090 (21.4)
4	75,781 (13.4)	40,088 (13.8)	35,693 (13.0)	72,332 (13.4)	3,449 (14.5)
5 (least deprived)	53,376 (9.4)	30,357 (10.4)	23,019 (8.4)	50,978 (9.4)	2,398 (10.1)
Missing	1,281 (0.2)	700 (0.2)	581 (0.2)	1,219 (0.2)	62 (0.3)

