

**Table S3.** Cohort-specific description of covariates<sup>a</sup>

Cohort name, number of participants	Child's sex		Maternal age (years)	Maternal educational level				Maternal parity		Maternal prenatal smoking	
	Male	Missings		Low	Medium	High	Missings	Nulliparous	Missings	Yes	Missings
ABCD, n=7,826	3,938 (50.3)	3 (0)	31.0 (20.0, 40.0)	1,787 (22.8)	2,948 (37.7)	3,017 (38.6)	74 (0.9)	4,312 (55.1)	-	814 (10.4)	461 (5.9)
ALSPAC, n=11,898	6,107 (51.3)	1 (0)	28.0 (19.0, 38.0)	7,162 (60.2)	2,603 (21.9)	1,491 (12.5)	642 (5.4)	5,142 (43.2)	468 (3.9)	2,839 (23.9)	269 (2.3)
AOB/F, n=2,620	1,380 (52.7)	-	31.0 (22.0, 40.0)	253 (9.7)	1,949 (74.4)	413 (15.8)	5 (0.2)	1,284 (49.0)	-	269 (10.3)	222 (8.5)
BAMSE, n=3,529	1,785 (50.6)	-	30.0 (22.0, 40.0)	1,214 (34.4)	884 (25.0)	1,407 (39.9)	24 (0.7)	1,947 (55.2)	-	462 (13.1)	-
BIB, n=1,509	739 (49.0)	-	27.0 (17.0, 39.0)	368 (24.4)	567 (37.6)	568 (37.6)	6 (0.4)	586 (38.8)	22 (1.5)	261 (17.3)	2 (0.1)
CHOP, n=941	447 (47.5)	-	30.7 (20.3, 39.9)	205 (21.8)	480 (51.0)	254 (27.0)	2 (0.2)	466 (49.5)	2 (0.2)	217 (23.1)	2 (0.2)
Co.N.ER, n=637	324 (50.9)	-	33.7 (24.5, 41.9)	115 (18.1)	281 (44.1)	240 (37.7)	1 (0.2)	282 (44.3)	1 (0.2)	91 (14.3)	-
DNBC, n=79,375	40,638 (51.2)	1 (0)	30.1 (22.2, 39.2)	7,508 (9.5)	30,045 (37.9)	41,524 (52.3)	298 (0.4)	39,787 (50.1)	51 (0.1)	21,396 (27.0)	27 (0)
EDEN, n=1,857	972 (52.3)	3 (0.2)	29.4 (20.4, 39.6)	525 (28.3)	333 (17.9)	991 (53.4)	8 (0.4)	1,029 (55.4)	2 (0.1)	498 (26.8)	6 (0.3)
FCOU, n=3,861	2,011 (52.1)	72 (1.9)	23.0 (17.0, 36.0)	221 (5.7)	2,581 (66.8)	975 (25.3)	84 (2.2)	2,611 (67.6)	135 (3.5)	332 (8.6)	254 (6.6)
GASPII, n=675	346 (51.3)	-	33.0 (22.0, 41.0)	94 (13.9)	338 (50.1)	243 (36.0)	-	397 (58.8)	-	80 (11.9)	-
GECKO Drenthe, n=2,499	1,261 (50.5)	-	31.0 (22.0, 39.0)	1,563 (62.5)	916 (36.7)	0 (0)	20 (0.8)	906 (36.3)	220 (8.8)	366 (14.6)	1 (0)
GENERATION R, n=8,495	4,242 (49.9)	103 (1.2)	30.3 (19.3, 39.2)	885 (10.4)	3,648 (42.9)	3,355 (39.5)	607 (7.1)	4,710 (55.4)	64 (0.8)	2,060 (24.2)	375 (4.4)
GENERATION XXI, n=7,619	3,880 (50.9)	-	29.0 (18.0, 40.0)	2,492 (32.7)	3,320 (43.6)	1,770 (23.2)	37 (0.5)	4,257 (55.9)	109 (1.4)	1,785 (23.4)	81 (1.1)
GENESIS, n=2,218	1,133 (51.1)	-	30.4 (21.2, 39.2)	97 (4.4)	1,117 (50.4)	935 (42.2)	69 (3.1)	1,094 (49.3)	-	410 (18.5)	1 (0)
Gen3G, n=855	448 (52.4)	-	28.0 (20.0, 37.0)	NA	NA	NA	-	NA	-	83 (9.7)	6 (0.7)
GINIplus, n=2,310	1,134 (49.1)	-	31.0 (24.0, 40.0)	272 (11.8)	979 (42.4)	1,053 (45.6)	6 (0.3)	NA	-	255 (11.0)	29 (1.3)

HUMIS, n=1,068	543 (50.8)	2 (0.2)	30.0 (22.0, 39.0)	111 (10.4)	182 (17.0)	627 (58.7)	148 (13.9)	477 (44.7)	1 (0.1)	117 (11.0)	41 (3.8)
INMA, n=2,492	1,265 (50.8)	37 (1.5)	30.0 (21.0, 39.0)	782 (31.4)	954 (38.3)	736 (29.5)	20 (0.8)	1,351 (54.2)	2 (0.1)	465 (18.7)	52 (2.1)
KOALA, n=2,812	1,443 (51.3)	7 (0.2)	32.0 (25.0, 40.0)	285 (10.1)	1,050 (37.3)	1,337 (47.5)	140 (5.0)	1,208 (43.0)	90 (3.2)	219 (7.8)	7 (0.2)
Krakow Cohort, n=503	256 (50.9)	-	28.0 (20.0, 34.0)	48 (9.5)	190 (37.8)	265 (52.7)	-	316 (62.8)	-	NA	-
LISAplus, n=1,582	829 (52.4)	-	32.0 (23.0, 40.0)	98 (6.2)	564 (35.7)	907 (57.3)	13 (0.8)	686 (43.4)	5 (0.3)	202 (12.8)	7 (0.4)
LUKAS, n=415	209 (50.4)	-	30.9 (21.2, 42.1)	18 (4.3)	313 (75.4)	84 (20.2)	-	141 (34.0)	-	66 (15.9)	-
MoBa, n=88,543	45,366 (51.2)	2 (0)	30.0 (21.0, 39.0)	27,451 (31.0)	36,867 (41.6)	22,420 (25.3)	1,805 (2.0)	39,832 (45.0)	-	7,700 (8.7)	8,472 (9.6)
NINFEA, n=2,240 <sup>b</sup>	1,157 (51.7)	2 (0.1)	33.0 (25.0, 41.0)	87 (3.9)	772 (34.5)	1,377 (61.5)	4 (0.2)	1,508 (67.3)	1 (0)	184 (8.2)	16 (0.7)
PÉLAGIE, n=1,491	769 (51.6)	-	30.1 (22.9, 39.5)	218 (14.6)	274 (18.4)	995 (66.7)	4 (0.3)	587 (39.4)	145 (9.7)	374 (25.1)	4 (0.3)
PIAMA, n=3,447	1,775 (51.5)	-	30.0 (23.0, 38.0)	771 (22.4)	1,423 (41.3)	1,249 (36.2)	4 (0.1)	1,712 (49.7)	-	586 (17.0)	26 (0.8)
Piccolipiù, n=3,289	1,691 (51.4)	-	34.0 (23.0, 42.0)	389 (11.8)	1,420 (43.2)	1,470 (44.7)	10 (0.3)	1,919 (58.3)	7 (0.2)	727 (22.1)	9 (0.3)
PRIDE Study, n=1,597	802 (50.2)	17 (1.1)	30.0 (24.0, 38.0)	29 (1.8)	327 (20.5)	1,189 (74.5)	52 (3.3)	969 (60.7)	4 (0.3)	103 (6.4)	16 (1.0)
Project Viva, n=2,107	1,082 (51.4)	-	32.2 (19.0, 40.9)	736 (34.9)	742 (35.2)	614 (29.1)	15 (0.7)	1,011 (48.0)	-	254 (12.1)	80 (3.8)
Raine Study, n=2,797	1,422 (50.8)	-	28.1 (17.4, 39.9)	576 (20.6)	965 (34.5)	395 (14.1)	861 (30.8)	1,341 (47.9)	-	921 (32.9)	255 (9.1)
REPRO_PL, n=1,418	706 (49.8)	5 (0.4)	28.0 (20.0, 37.0)	172 (12.1)	428 (30.2)	817 (57.6)	1 (0.1)	800 (56.4)	2 (0.1)	227 (16.0)	-
RHEA, n=816	434 (53.2)	-	30.0 (20.0, 40.0)	130 (15.9)	422 (51.7)	262 (32.1)	2 (0.2)	NA	-	276 (33.8)	1 (0.1)
ROLO, n=744	373 (50.1)	3 (0.4)	32.7 (23.6, 39.8)	0 (0)	137 (18.4)	483 (64.9)	124 (16.7)	0 (0)	-	29 (3.9)	-
SCOPE BASELINE, n=1,433	728 (50.8)	-	31.0 (20.0, 39.0)	0 (0)	206 (14.4)	1,218 (85.0)	9 (0.6)	1,433 (100)	-	357 (24.9)	-
SEATON, n=1,878	847 (45.1)	161 (8.6)	29.7 (17.6, 39.6)	460 (24.5)	469 (25.0)	583 (31.0)	366 (19.5)	717 (38.2)	1 (0.1)	805 (42.9)	52 (2.8)
Slovak PCB study, n=1,054	542 (51.4)	-	25.0 (18.0, 37.0)	467 (44.3)	493 (46.8)	88 (8.3)	6 (0.6)	449 (42.6)	3 (0.3)	154 (14.6)	23 (2.2)
STEPS, n=1,695	887 (52.3)	-	30.8 (21.8, 40.2)	169 (10.0)	488 (28.8)	994 (58.6)	44 (2.6)	945 (55.8)	-	46 (2.7)	590 (34.8)
SWS, n=3,125	1,616 (51.7)	3 (0.1)	30.2 (22.6, 36.4)	390 (12.5)	1,844 (59.0)	883 (28.3)	8 (0.3)	1,600 (51.2)	2 (0.1)	434 (13.9)	354 (11.3)

<b>Total group</b>	135,527 (51.1)	422 (0.2)	30.0 (20.1, 39.1)	58,148 (21.9)	103,519 (39.0)	97,229 (36.7)	6,374 (2.4)	127,812 (48.2)	5,318 (2.0)	46,464 (17.5)	12,244 (4.6)
--------------------	----------------	-----------	-------------------	------------------	-------------------	------------------	-------------	-------------------	-------------	---------------	--------------

<sup>a</sup>Values are expressed as medians (95% range) or numbers of participants (%). NA, not available. <sup>b</sup>Subset of participants with follow-up completed at 4 years of child's age by the time of data transfer (March 2015).