

Supplementary table 1. Mean differences in intelligence, attention, and executive functions between 5-year-old children born at term (reference group) and children born preterm. Denmark 2003-2008 (n=1776)

	Born at term ≥37 weeks (n=1728)	Late preterm birth 34 to <37 weeks (n=40)	Moderately or very preterm birth <34 weeks (n=8)		
	Mean (SD)	Mean difference	95% CI	Mean difference	95% CI
Intelligence (WPPSI-R)					
Full scale IQ					
Unadjusted	105.64 (12.86)	-2.09	-6.91, 2.74	-9.22	-20.25, 1.81
Adjusted ^a		-0.05	-4.62, 4.53	-10.56	-19.37, -1.75
Excluding maternal IQ ^b		-0.00	-4.91, 4.91	-11.23	-21.00, -1.45
Excluding parental education		-0.64	-5.16, 3.87	-10.04	-19.60, -0.48
Excluding IQ + parental education		-1.42	-6.47, 3.63	-10.34	-22.19, 1.51
With all including birthweight ^c		2.21	-2.82, 7.25	-7.04	-15.67, 1.59
Verbal IQ					
Unadjusted	104.81 (10.80)	-1.73	-5.23, 1.76	-7.11	-15.64, 1.41
Adjusted		-0.40	-4.84, 4.05	-7.41	-13.37, -1.45
Excluding maternal IQ		-0.33	-4.48, 3.83	-7.86	-14.89, -0.83
Excluding parental education		-0.98	-5.40, 3.44	-6.89	-13.14, -0.64
Excluding IQ + parental education		-1.53	-5.55, 2.49	-7.10	-15.24, 1.05
With all including birthweight		0.59	-4.22, 5.40	-5.93	-12.19, 0.33
Performance IQ					
Unadjusted	105.14 (16.22)	-2.00	-9.02, 5.03	-9.51	-20.46, 1.45
Adjusted		0.38	-5.39, 6.15	-11.71	-21.89, -1.52
Excluding maternal IQ		0.42	-6.23, 7.07	-12.46	-23.38, -1.54
Excluding parental education		-0.12	-5.82, 5.59	-11.28	-22.20, -0.36
Excluding IQ + parental education		-0.93	-7.85, 5.99	-11.63	-24.73, 1.47
With all including birthweight		3.49	-2.78, 9.76	-6.80	-16.60, 3.00
Attention (Teach-5)					
Overall attention					
Unadjusted	0.01 (1.00)	-0.21	-0.70, 0.28	-0.10	-0.72, 0.52
Adjusted		-0.16	-0.59, 0.26	-0.25	-1.00, 0.50
Excluding maternal IQ		-0.15	-0.59, 0.30	-0.28	-1.05, 0.49
Excluding parental education		-0.21	-0.63, 0.22	-0.22	-0.88, 0.44
Excluding IQ + parental education		-0.21	-0.67, 0.25	-0.25	-0.90, 0.40
With all including birthweight		-0.11	-0.56, 0.34	-0.20	-0.98, 0.59
Sustained attention					
Unadjusted	0.01 (1.00)	-0.39	-0.76, -0.01	-0.09	-0.62, 0.44
Adjusted		-0.23	-0.64, 0.19	-0.16	-0.83, 0.52
Excluding maternal IQ		-0.23	-0.64, 0.18	-0.17	-0.86, 0.52
Excluding parental education		-0.25	-0.66, 0.16	-0.13	-0.75, 0.48
Excluding IQ + parental education		-0.27	-0.68, 0.13	-0.15	-0.75, 0.46
With all including birthweight		-0.10	-0.55, 0.35	0.01	-0.72, 0.73
Selective attention					
Unadjusted	0.00 (1.00)	0.09	-0.46, 0.63	0.02	-0.41, 0.45
Adjusted		0.06	-0.42, 0.53	-0.19	-0.65, 0.27
Excluding maternal IQ		0.07	-0.41, 0.56	-0.20	-0.69, 0.29
Excluding parental education		0.03	-0.45, 0.51	-0.16	-0.56, 0.24
Excluding IQ + parental education		0.03	-0.47, 0.53	-0.17	-0.57, 0.23
With all including birthweight		0.00	-0.50, 0.50	-0.31	-0.80, 0.18

Executive functions (BRIEF)^d**- Parent version****Global Executive Composite**

Unadjusted	49.97 (9.98)	1.44	-4.03, 6.90	-0.39	-16.52, 15.74
Adjusted		2.26	-2.01, 6.53	-0.20	-14.27, 13.87
Excluding maternal IQ		2.23	-2.15, 6.62	-0.13	-14.00, 13.73
Excluding parental education		2.67	-1.65, 7.00	-0.58	-15.69, 14.54
Excluding IQ + parental education		2.85	-1.77, 7.47	-0.54	-15.79, 14.71
With all including birthweight		1.62	-2.96, 6.20	-1.13	-15.16, 12.90

Behavioural Regulation Index

Unadjusted	50.01 (9.98)	-0.35	-5.50, 4.79	-1.18	-16.17, 13.81
Adjusted		0.40	-3.97, 4.76	-1.95	-14.87, 10.97
Excluding maternal IQ		0.37	-4.06, 4.80	-1.84	-14.55, 10.87
Excluding parental education		0.75	-3.68, 5.18	-2.27	-16.08, 11.54
Excluding IQ + parental education		0.93	-3.67, 5.54	-2.21	-16.17, 11.75
With all including birthweight		-0.27	-4.92, 4.38	-3.03	-15.90, 9.85

Metacognition Index

Unadjusted	49.95 (9.98)	2.41	-3.10, 7.92	0.13	-15.24, 15.51
Adjusted		3.19	-1.11, 7.49	0.90	-12.60, 14.41
Excluding maternal IQ		3.17	-1.24, 7.58	0.94	-12.40, 14.27
Excluding parental education		3.61	-0.73, 7.95	0.52	-14.03, 15.07
Excluding IQ + parental education		3.77	-0.87, 8.40	0.54	-14.11, 15.20
With all including birthweight		2.63	-2.01, 7.27	0.15	-13.37, 13.66

- Teacher version**Global Executive Composite**

Unadjusted	49.94 (10.03)	4.47	-0.77, 9.70	5.47	2.57, 8.36
Adjusted		3.99	-0.82, 8.81	5.33	2.39, 8.27
Excluding maternal IQ		4.08	-0.85, 9.02	5.56	2.55, 8.56
Excluding parental education		4.06	-0.74, 8.87	5.23	2.23, 8.23
Excluding IQ + parental education		4.30	-0.67, 9.27	5.40	2.17, 8.62
With all including birthweight		4.20	-1.02, 9.42	5.39	1.67, 9.12

Behavioural Regulation Index

Unadjusted	49.95 (10.01)	4.42	-0.38, 9.21	5.29	2.08, 8.50
Adjusted		3.79	-0.89, 8.48	4.24	-0.56, 9.03
Excluding maternal IQ		3.89	-0.91, 8.70	4.49	-0.26, 9.24
Excluding parental education		3.81	-0.87, 8.49	4.21	-0.62, 9.05
Excluding IQ + parental education		4.04	-0.78, 8.85	4.38	-0.71, 9.47
With all including birthweight		4.44	-0.63, 9.52	4.81	-0.72, 10.34

Metacognition Index

Unadjusted	49.95 (10.03)	4.09	-1.55, 9.73	5.07	0.61, 9.54
Adjusted		3.77	-1.32, 8.85	5.46	1.97, 8.95
Excluding maternal IQ		3.84	-1.33, 9.01	5.64	2.05, 9.23
Excluding parental education		3.86	-1.21, 8.93	5.32	1.96, 8.69
Excluding IQ + parental education		4.07	-1.14, 9.29	5.47	2.03, 8.91
With all including birthweight		3.66	-1.84, 9.17	5.17	1.08, 9.25

N, number; SD, standard deviation; CI, confidence interval; WPPSI-R, Wechsler Preschool and Primary Scales of Intelligence-Revised; IQ, intelligence quotient; TECh-5, Test of Everyday Attention for Children at Five; BRIEF, Behaviour Rating Inventory of Executive Function. ^a All adjusted analyses adjusted for maternal age, maternal IQ, average alcohol consumption in pregnancy, smoking in pregnancy, parity, maternal marital status, parental educational level, child sex, testing psychologist, and age at testing. ^b Adjusted for all the above-mentioned covariates except maternal IQ. ^c Adjusted for all the above-mentioned covariates and birthweight. ^d A higher BRIEF score indicates more executive function difficulties (opposite than the other outcome measures).