

Supplement table 1. Gestational age in weeks and all forms of primary education.

	Mainstream education	Total SE (one of SPE or Formal SE)	Total Mainstream Education + SE		SPE	Formal SE	Ratio SPE:SE
Gestational week	n (%)	n (%)	N		n (%)	n (%)	
25	177 (65.3)	94 (34.7)	271		54 (19.9)	55 (20.3)	1.0
26	484 (77.2)	143 (22.8)	627		86 (13.7)	73 (11.6)	1.2
27	780 (78.5)	213 (21.5)	993		132 (13.3)	101 (10.2)	1.3
28	1.038 (78.3)	288 (21.7)	1.326		163 (12.3)	144 (10.9)	1.1
29	1.356 (79.7)	345 (20.3)	1.701		189 (11.1)	185 (10.9)	1.0
30	2.070 (84.0)	393 (16.0)	2.463		237 (9.6)	188 (7.6)	1.3
31	2.766 (85.1)	483 (14.9)	3.249		326 (10.0)	211 (6.5)	1.5
32	4.129 (87.1)	614 (12.9)	4.743		378 (8.0)	284 (6.0)	1.3
33	6.768 (88.5)	883 (11.5)	7.651		549 (7.2)	411 (5.4)	1.3
34	11.770 (89.0)	1.454 (11.0)	13.224		908 (6.9)	662 (5.0)	1.4
35	19.648 (90.5)	2.061 (9.5)	21.709		1.301 (6.0)	946 (4.4)	1.4
36	38.401 (90.8)	3.910 (9.2)	42.311		2.478 (5.9)	1.770 (4.2)	1.4
37	93.706 (91.3)	8.930 (8.7)	102.636		5.595 (5.5)	4.082 (4.0)	1.4
38	239.793 (92.6)	19.183 (7.4)	258.976		12.216 (4.7)	8.575 (3.3)	1.4
39	399.199 (93.8)	26.604 (6.2)	425.803		17.226 (4.0)	11.478 (2.7)	1.5
40	477.030 (94.3)	28.908 (5.7)	505.938		18.667 (3.7)	12.473 (2.5)	1.5
41	312.485 (94.3)	18.804 (5.7)	331.289		12.107 (3.7)	8.191 (2.5)	1.5
42	84.076 (93.8)	5.554 (6.2)	89.630		3.476 (3.9)	2.523 (2.8)	1.4
	1.695.676 (93.4)	118.864 (6.6)	1.814.540		76.088 (4.2)	52.352 (2.9)	1.5

SE, special education
SPE, special primary education

Supplement table 2. Results of the multivariate logistic regression analyses of gestational age groups and various risk factors for special education (SE) for all singleton children born between 1999 and 2009.

	Special education			Special education		
	adjustment #1			adjustment #2		
	Odds ratio	95% confidence interval		Odds ratio	95% confidence interval	
		Lower	Upper		Lower	Upper
Gestational age groups (weeks)						
25-29	4.36	4.06	4.69	3.50	3.26	3.77
30-31	2.71	2.51	2.92	2.24	2.08	2.42
32-36	1.69	1.64	1.73	1.61	1.57	1.65
37-39	1.18	1.17	1.20	1.18	1.17	1.20
40 (reference)	1.00			1.00		
41-42	1.02	1.00	1.04	1.03	1.01	1.05
Sex						
Female (reference)	1.00			1.00		
Male	2.32	2.29	2.35	2.33	2.30	2.36
Parity						
Nulliparous	0.91	0.90	0.92	0.87	0.86	0.88
Primiparous (reference)	1.00			1.00		
Multiparous (≥2)	1.28	1.26	1.30	1.29	1.27	1.31
Maternal age (years)						
<24	2.16	2.12	2.20	2.14	2.10	2.19
25-30	1.34	1.32	1.36	1.34	1.32	1.36
31-35 (reference)	1.00			1.00		
≥36	1.06	1.04	1.08	1.04	1.02	1.07
Maternal ethnicity						
Western (reference)	1.00			1.00		
Non-Western	0.74	0.73	0.76	0.73	0.72	0.74
SES (quintiles)						
Q1 (very low)	1.29	1.26	1.31	1.27	1.25	1.29
Q2	1.12	1.09	1.14	1.11	1.09	1.13
Q3 (reference)	1.00			1.00		
Q4	0.92	0.91	0.94	0.92	0.91	0.94
Q5 (very high)	0.78	0.76	0.79	0.78	0.76	0.80
Maternal education						
Low	5.84	5.67	6.01	5.61	5.44	5.78
Intermediate (reference)	1.00			1.00		
High	0.41	0.40	0.42	0.42	0.41	0.43
Unknown	0.78	0.77	0.80	0.79	0.78	0.80
Year of birth						
1999	1.04	1.01	1.06	1.03	1.00	1.05
2000	1.04	1.02	1.07	1.04	1.01	1.06
2001	1.03	1.00	1.05	1.02	1.00	1.05
2002	1.02	1.00	1.05	1.02	0.99	1.04
2003	1.00	0.98	1.03	1.00	0.98	1.03

2004 (reference)	1.00			1.00		
2005	0.97	0.95	1.00	0.97	0.95	1.00
2006	0.97	0.95	1.00	0.97	0.95	1.00
2007	0.99	0.97	1.02	0.99	0.97	1.02
2008	0.99	0.96	1.01	0.99	0.97	1.01
5-minute Apgar score						
≥7 (reference)				1.00		
<7				1.64	1.57	1.73
Birth weight percentile						
SGAp10				1.71	1.68	1.74
p10-p94 (reference)				1.00		
LGAp95				0.95	0.93	0.98

SES, Socioeconomic status
SGAp10, Small for gestational age <10th percentile
LGAp95, Large for gestational age ≥95th percentile

Supplement table 3. Special Education risk and ratio by week of gestation in four high risk groups: low maternal education, male sex, small for gestational age <10th percentile (SGAp10) and 5-minute Apgar score <7, each versus non-high risk groups.

	Special Education		Special Education		Special Education		Special Education	
High risk group	Low maternal education		Male sex		SGAp10		5-minute Apgar score <7	
	Risk %	Ratio	Risk %	Ratio	Risk %	Ratio	Risk %	Ratio
Gestational age (weeks)								
25	48.8	1.5	40.7	1.4	53.6	1.6	31.0	0.9
26	35.5	1.7	26.4	1.4	29.2	1.5	27.7	1.3
27	34.8	1.8	26.2	1.7	27.2	1.5	25.3	1.2
28	34.9	1.8	25.4	1.5	26.5	1.4	23.3	1.1
29	34.1	1.9	25.2	1.8	22.2	1.2	25.8	1.3
30	30.3	2.2	19.7	1.8	20.0	1.5	19.5	1.3
31	27.8	2.1	17.9	1.6	18.1	1.4	15.4	1.0
32	24.8	2.2	16.4	2.0	16.8	1.5	19.0	1.5
33	22.0	2.2	14.9	2.1	16.5	1.7	15.1	1.3
34	22.0	2.3	13.9	1.9	15.6	1.6	17.3	1.6
35	20.5	2.5	12.1	2.0	13.5	1.6	15.3	1.6
36	20.5	2.6	11.8	1.9	15.4	1.9	14.0	1.5
37	17.8	2.3	11.3	2.0	13.7	1.7	13.6	1.6
38	15.9	2.5	9.8	2.1	12.0	1.8	12.6	1.7
39	14.2	2.6	8.5	2.2	10.4	1.8	10.4	1.7
40	13.3	2.7	8.0	2.3	9.3	1.8	10.3	1.8
41	13.1	2.6	7.8	2.2	9.0	1.7	11.1	2.0
42	13.1	2.4	8.3	2.1	8.7	1.4	9.0	1.5
total	14.8	2.6	8.9	2.2	10.9	1.8	12.5	1.9

SGAp10, Small for gestational age <10th percentile