

Table S1: Mother and infant characteristics by country among responders at 2 years corrected age: EPICE cohort

Region	Number of responders	Mother's age	Parity % nulliparous	Multiple pregnancy	Foreign born mother(1)	Primary and secondary education only (2)	Gestational age	Gestational age < 26 wks	Birthweight	Male	IVH/cPVL (3)	severe NEC (4)	ROP (5)	BDP (6)	Any severe morbidity (7)
	N	mean (sd)	n (%)	n (%)	n (%)	n (%)	mean (sd)	n (%)	mean (sd)	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)
Belgium	307	30 (4.4)	117 (38.5)	123 (40.1)	57 (18.8)	127 (42.2)	29.1 (1.8)	18 (5.9)	1355 (379)	184 (59.9)	14 (5)	4 (1.3)	14 (4.6)	38 (12.5)	29 (10.4)
Denmark	180	30.8 (5.3)	61 (34.1)	81 (45)	18 (10.1)	27 (15.3)	28.6 (2)	14 (7.8)	1212 (341)	88 (48.9)	5 (2.9)	4 (2.2)	4 (2.3)	17 (10.2)	12 (7.1)
Estonia	137	31.8 (5.9)	76 (55.5)	33 (24.1)	9 (6.6)	45 (33.6)	28.8 (2.1)	13 (9.5)	1306 (367)	73 (53.3)	10 (7.3)	3 (2.2)	11 (8)	16 (11.7)	20 (14.6)
Germany	421	31.8 (5.2)	144 (34.6)	176 (41.8)	119 (28.8)	216 (53.1)	28.7 (2.1)	41 (9.7)	1225 (385)	231 (54.9)	16 (3.8)	5 (1.2)	19 (4.5)	35 (8.3)	36 (8.6)
Italy	722	34.1 (5.8)	257 (35.9)	245 (33.9)	184 (25.6)	453 (63.5)	28.9 (2)	45 (6.2)	1240 (373)	345 (47.8)	47 (6.5)	11 (1.5)	31 (4.3)	63 (8.8)	76 (10.6)
The Netherlands	229	30.9 (4.9)	66 (28.8)	57 (24.9)	27 (11.8)	39 (17.3)	28.7 (2.1)	18 (7.9)	1222 (374)	103 (45)	18 (8)	6 (2.6)	3 (1.3)	41 (18)	24 (10.6)
Poland	189	29.4 (5.6)	99 (52.7)	43 (22.8)	1 (0.5)	106 (56.7)	28.9 (2.2)	21 (11.1)	1347 (406)	105 (55.6)	21 (11.1)	8 (4.2)	22 (11.7)	18 (9.5)	42 (22.3)
Portugal	408	31.4 (5.5)	138 (33.9)	128 (31.4)	75 (18.6)	228 (56.6)	28.8 (1.9)	21 (5.2)	1187 (342)	239 (58.6)	25 (6.1)	5 (1.2)	19 (4.7)	49 (12)	44 (10.8)
UK	540	30.3 (5.9)	224 (41.6)	158 (29.3)	74 (13.9)	175 (35)	28.9 (2.1)	49 (9.1)	1268 (364)	295 (54.6)	45 (8.4)	15 (2.8)	24 (4.4)	129 (24.3)	71 (13.2)
Sweden	161	32.6 (5.3)	61 (37.9)	44 (27.3)	46 (28.8)	68 (42.5)	28.6 (2.1)	23 (14.3)	1312 (421)	91 (56.5)	6 (3.7)	2 (1.2)	7 (4.5)	27 (16.8)	12 (7.6)
Total	3294	31.6 (5.7)	1243 (38)	1088 (33)	610 (18.7)	1484 (46.3)	28.8 (2)	263 (8)	1257 (376)	1754 (53.3)	207 (6.4)	63 (1.9)	154 (4.7)	433 (13.3)	366 (11.3)

Notes: definition

(1) data come from 2 years follow-up

(2) Early childhood or primary, Low er secondary and Upper secondary put together

(3) IVH (grade III or IV) or cPVL

(4) NEC requiring surgery or perionial drainage

(5) ROP with a grade III, IV or V

(6) Oxygen or respiratory support at 36 weeks GA

(7) IVH/cPVL, severe NEC or ROP

Table S2a. Comparison of babies aged ≥ 27 weeks of GA and those < 27 weeks of GA for each type of impairment at 2 years corrected age and by country: EPICE cohort

Country	Neurodevelopmental Impairment	Neurosensory Impairment	Non Verbal Cognitive Impairment
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	27 - 31 wks	< 27 wks	27 - 31 wks	< 27 wks	RR	P-value	27 - 31 wks	< 27 wks	RR	P-value	27 - 31 wks	< 27 wks	RR	p-value
	N (%)	N (%)	n (%)	n (%)			n (%)	n (%)			n (%)	n (%)		
Belgium	273 (88.9)	34 (11.1)	47/269 (17.5)	11/31 (35.5)	2.0	0.0	10/270 (3.7)	4/32 (12.5)	3.4	0.05	47/271 (17.3)	10/31 (32.3)	1.9	0.04
Denmark	152 (84.4)	28 (15.6)	24/149 (16.1)	7/27 (25.9)	1.6	0.2	4/150 (2.7)	0/27 (0)	..	1.00	20/151 (13.2)	7/28 (25)	1.9	0.11
Estonia	114 (83.2)	23 (16.8)	14/112 (12.5)	3/21 (14.3)	1.1	0.7	7/112 (6.3)	1/21 (4.8)	0.8	1.00	12/114 (10.5)	2/23 (8.7)	0.8	1.00
Germany	344 (81.7)	77 (18.3)	36/334 (10.8)	21/75 (28)	2.6	0.0	16/338 (4.7)	11/76 (14.5)	3.1	0.00	31/340 (9.1)	18/75 (24)	2.6	0.00
Italy	627 (86.8)	95 (13.2)	95/618 (15.4)	21/95 (22.1)	1.4	0.1	27/616 (4.4)	12/95 (12.6)	2.9	0.00	84/626 (13.4)	20/95 (21.1)	1.6	0.05
The Netherlands	180 (78.6)	49 (21.4)	17/177 (9.6)	6/49 (12.2)	1.3	0.6	4/179 (2.2)	3/49 (6.1)	2.8	0.17	16/178 (9)	5/49 (10.2)	1.1	0.78
Poland	153 (81)	36 (19.1)	38/152 (25)	11/36 (30.6)	1.2	0.5	12/151 (7.9)	5/36 (13.9)	1.8	0.33	35/151 (23.2)	11/36 (30.6)	1.3	0.36
Portugal	350 (85.8)	58 (14.2)	52/337 (15.4)	13/52 (25)	1.6	0.1	10/339 (2.9)	2/53 (3.8)	1.3	0.67	47/347 (13.5)	13/57 (22.8)	1.7	0.07
UK	458 (84.8)	82 (15.2)	70/384 (18.2)	26/71 (36.6)	2.0	0.0	29/433 (6.7)	12/76 (15.8)	2.4	0.01	61/396 (15.4)	20/72 (27.8)	1.8	0.01
Sweden	134 (83.2)	27 (16.8)	23/130 (17.7)	9/27 (33.3)	1.9	0.1	1/132 (0.8)	3/27 (11.1)	13.9	0.02	23/132 (17.4)	9/27 (33.3)	1.9	0.06
Total	2785 (84.6)	509 (15.5)	416/2662 (15.6)	128/484 (26.4)	1.7	0.0	120/2720 (4.4)	53/492 (10.8)	2.4	0.00	376/2706 (13.9)	115/493 (23.3)	1.7	0.00

Note: p-value calculated with the Fisher test when value <=5

RR = prevalence in < 27 wks divided by prevalence in 27 - 31 wks

Table S2b. Comparison of babies aged ≥ 28 weeks of GA and those < 28 weeks of GA for each type of impairment at 2 years corrected age and by country: EPICE cohort

Country	28 - 31 wks		Neurodevelopmental Impairment				Neurosensory Impairment				Non Verbal Cognitive Impairment			
	28 - 31 wks	< 28 wks	28 - 31 wks	< 28 wks			28 - 31 wks	< 28 wks			28 - 31 wks	< 28 wks		
	N (%)	N (%)	n (%)	n (%)	RR	p-value	n (%)	n (%)	RR	p-value	n (%)	n (%)	RR	p-value
Belgium	250 (81.4)	57 (18.6)	41/246 (16.7)	17/54 (31.5)	1.9	0.01	5/247 (2)	9/55 (16.4)	8.2	0.00	41/248 (16.5)	16/54 (29.6)	1.8	0.03
Denmark	122 (67.8)	58 (32.2)	19/119 (16)	12/57 (21.1)	1.3	0.41	2/120 (1.7)	2/57 (3.5)	2.1	0.60	17/121 (14)	10/58 (17.2)	1.2	0.58
Estonia	100 (73)	37 (27)	12/99 (12.1)	5/34 (14.7)	1.2	0.77	5/99 (5.1)	3/34 (8.8)	1.7	0.42	11/100 (11)	3/37 (8.1)	0.7	0.76
Germany	301 (71.5)	120 (28.5)	27/293 (9.2)	30/116 (25.9)	2.8	0.00	10/295 (3.4)	17/119 (14.3)	4.2	0.00	22/299 (7.4)	27/116 (23.3)	3.2	0.00
Italy	549 (76)	173 (24)	77/541 (14.2)	39/172 (22.7)	1.6	0.01	20/540 (3.7)	19/171 (11.1)	3	0.00	68/548 (12.4)	36/173 (20.8)	1.7	0.01
The Netherlands	161 (70.3)	68 (29.7)	12/158 (7.6)	11/68 (16.2)	2.1	0.06	2/160 (1.3)	5/68 (7.4)	5.7	0.03	11/159 (6.9)	10/68 (14.7)	2.1	0.06
Poland	141 (74.6)	48 (25.4)	33/140 (23.6)	16/48 (33.3)	1.4	0.18	11/139 (7.9)	6/48 (12.5)	1.6	0.38	30/139 (21.6)	16/48 (33.3)	1.5	0.10
Portugal	296 (72.5)	112 (27.5)	43/284 (15.1)	22/105 (21)	1.4	0.17	9/287 (3.1)	3/105 (2.9)	0.9	1.00	39/293 (13.3)	21/111 (18.9)	1.4	0.16
UK	413 (76.5)	127 (23.5)	64/351 (18.2)	32/104 (30.8)	1.7	0.01	26/391 (6.6)	15/118 (12.7)	1.9	0.03	55/362 (15.2)	26/106 (24.5)	1.6	0.03
Sweden	118 (73.3)	43 (26.7)	17/114 (14.9)	15/43 (34.9)	2.3	0.01	0/116 (0)	4/43 (9.3)	..	0.01	17/116 (14.7)	15/43 (34.9)	2.4	0.01
Total	2451 (74.4)	843 (25.6)	345/2345 (14.7)	199/801 (24.8)	1.7	0.00	90/2394 (3.8)	83/818 (10.1)	2.7	0.00	311/2385 (13)	180/814 (22.1)	1.7	0.00

Note: p-value calculated with the Fisher test when value ≤ 5

RR = prevalence in < 28 wks divided by prevalence in 28 - 31 wks

Table S3. Comparison of babies aged more than 26 months and those aged between 22 and 26 months corrected age for each type of impairment and by country: EPICE cohort

Region			Neurodevelopmental impairment			Neurosensory impairment			Non verbal cognitive impairment		
	>26 months	22m-26m	>26 months	22m-26m	P-value	>26 months	22m-26m	p-value	>26 months	22m-26m	p-value
	N (%)	N (%)	n (%)	n (%)		n (%)	n (%)		n (%)	n (%)	
Belgium	7 (2.37)	288 (97.63)	1/6 (16.7)	55/283 (19.4)	1.00	1/6 (16.7)	11/285 (3.9)	0.23	1/6 (16.7)	54/285 (18.9)	1.00
Denmark	5 (3.14)	154 (96.86)	0/5 (0)	27/151 (17.9)	0.59	0/5 (0)	3/152 (2)	1.00	0/5 (0)	24/153 (15.7)	1.00
Estonia	1 (0.73)	136 (99.27)	0/1 (0)	17/132 (12.9)	1.00	0/1 (0)	8/132 (6.1)	1.00	0/1 (0)	14/136 (10.3)	1.00
Germany	49 (11.89)	363 (88.11)	7/48 (14.6)	49/352 (13.9)	0.83	5/48 (10.4)	22/357 (6.2)	0.35	5/49 (10.2)	43/357 (12)	0.82
Italy	114 (15.88)	604 (84.12)	11/110 (10)	104/599 (17.4)	0.07	6/110 (5.5)	33/597 (5.5)	1.00	10/114 (8.8)	93/603 (15.4)	0.08
The Netherlands	10 (4.5)	212 (95.5)	0/9 (0)	22/210 (10.5)	0.60	0/9 (0)	6/212 (2.8)	1.00	0/10 (0)	20/210 (9.5)	0.60
Poland	0 (0)	189 (100)	--	49/188 (26.1)		--	17/187 (9.1)		--	46/187 (24.6)	
Portugal	26 (6.37)	382 (93.63)	2/22 (9.1)	63/367 (17.2)	0.55	0/23 (0)	12/369 (3.3)	1.00	2/25 (8)	58/379 (15.3)	0.56
UK	86 (16.14)	447 (83.86)	5/27 (18.5)	90/424 (21.2)	1.00	4/79 (5.1)	36/424 (8.5)	0.37	2/25 (8)	79/440 (18)	0.28
Sweden	0 (0)	161 (100)	--	32/157 (20.4)		--	4/159 (2.5)		--	32/159 (20.1)	
Total	298 (9.2)	2936 (90.8)	26/228 (11.4)	508/2863 (17.7)	0.01	16/281 (5.7)	152/2874 (5.3)	0.78	20/235 (8.5)	463/2909 (15.9)	0.00

Note:

45 children aged < 22 months were not used in this comparison

p-value calculated with the Fisher test