

Supplementary Table 1. Five domains of the Early Development Instrument

EDI domains	Characteristics addressed
Physical health and well-being	Children’s fine and gross motor skills, energy levels, fatigue and clumsiness
Social competence	Self-confidence, tolerance, ability to get along with other children, to accept responsibility for their own actions, to work independently
Emotional maturity	Children’s general emotional health and maturity. It also identifies minor problems with aggression, restlessness, distractibility or inattentiveness as well as excessive regular sadness
Language and cognitive skills	Mastery of the basics of reading and writing, interest in books, and numerical skills
Communication skills and general knowledge	Children’s general knowledge, their ability to articulate clearly and their ability to understand and communicate in English

Supplementary Table 2. Apgar score at one and five minutes and rate ratios for vulnerability in each domain of the EDI, among singleton term live births in British Columbia, Canada

Apgar Score	Physical health domain			Social domain			Emotional domain		
	No. with outcome	%	Adjusted*	No. with outcome	%	Adjusted*	No. with outcome	%	Adjusted*
1-Min Apgar									
0	<5	<20.83	0.90 (0.37–2.19)	<5	<20.83	1.01 (0.40–2.51)	<5	<20.83	0.71 (0.25–1.96)
1	88	18.76	1.24 (1.02–1.52)	82	17.48	1.30 (1.05–1.61)	83	17.7	1.25 (1.01–1.54)
2	179	16.89	1.09 (0.93–1.27)	142	13.40	0.97 (0.82–1.16)	147	13.87	0.96 (0.81–1.14)
3	283	16.08	1.06 (0.93–1.21)	246	13.98	1.03 (0.89–1.19)	273	15.51	1.09 (0.95–1.25)
4	410	15.88	1.06 (0.94–1.19)	349	13.52	1.02 (0.89–1.16)	370	14.33	1.03 (0.91–1.18)
5	644	15.83	1.04 (0.93–1.16)	569	13.98	1.06 (0.94–1.19)	563	13.84	1.01 (0.90–1.13)
6	1076	15.43	1.02 (0.93–1.13)	925	13.26	1.02 (0.92–1.14)	932	13.36	1.00 (0.89–1.11)
7	1889	15.72	1.03 (0.94–1.13)	1555	12.94	1.00 (0.90–1.11)	1500	12.48	0.94 (0.85–1.04)
8	5876	15.19	1.01 (0.93–1.10)	4993	12.91	1.01 (0.92–1.11)	4836	12.51	0.96 (0.87–1.05)
9	11839	14.92	0.99 (0.91–1.08)	9858	12.42	0.97 (0.89–1.07)	9608	12.11	0.94 (0.86–1.03)
10	472	15.31	1.00 (Reference)	393	12.75	1.00 (Reference)	399	12.94	1.00 (Reference)
5-Min Apgar									
0	<5	<25.00	0.66 (0.17–2.60)	<5	<25.00	1.13 (0.44–2.9)	<5	<25.00	1.13 (0.44–2.88)
1	6	37.5	2.42 (1.28–4.59)	<5	<31.25	1.42 (0.58–3.52)	<5	<31.25	1.92 (0.89–4.11)
2	9	32.14	2.22 (1.23–4.01)	7	25.00	1.87 (0.99–3.53)	6	21.43	1.60 (0.83–3.07)
3	21	25.30	1.75 (1.22–2.51)	15	18.07	1.37 (0.87–2.17)	12	14.46	1.08 (0.65–1.78)
4	25	23.58	1.56 (1.12–2.18)	18	16.98	1.26 (0.84–1.90)	18	16.98	1.19 (0.77–1.82)
5	46	15.86	1.06 (0.81–1.37)	34	11.72	0.86 (0.63–1.19)	33	11.38	0.84 (0.61–1.17)
6	164	17.60	1.13 (0.99–1.30)	159	17.06	1.26 (1.10–1.44)	167	17.92	1.33 (1.16–1.52)
7	377	15.87	1.08 (0.98–1.19)	319	13.43	1.05 (0.95–1.16)	336	14.15	1.11 (1.00–1.23)
8	1237	16.14	1.08 (1.02–1.14)	1014	13.23	1.04 (0.97–1.10)	1021	13.32	1.06 (1.00–1.13)
9	15272	15.09	1.03 (1.00–1.06)	12904	12.75	1.02 (0.99–1.06)	12641	12.49	1.04 (1.01–1.07)
10	5601	14.99	1.00 (Reference)	4640	12.42	1.00 (Reference)	4473	11.97	1.00 (Reference)

Supplementary Table 2 (cont.). Apgar score at one and five minutes and rate ratios for each domain of the EDI, among singleton term live births in British Columbia, Canada

Apgar Score	Language domain			Communication domain		
	No. with outcome	%	Adjusted*	No. with outcome	%	Adjusted*
1-Min Apgar				18335	12.18	
0	5	20.83	1.85 (0.81–4.25)	<5	<20.83	1.27 (0.50–3.22)
1	60	12.79	1.42 (1.10–1.82)	54	11.51	1.07 (0.83–1.39)
2	106	10.00	1.05 (0.86–1.29)	131	12.36	1.12 (0.93–1.35)
3	174	9.89	1.07 (0.90–1.27)	203	11.53	1.05 (0.90–1.23)
4	269	10.42	1.14 (0.98–1.32)	291	11.27	1.04 (0.90–1.19)
5	435	10.69	1.14 (1.00–1.31)	486	11.94	1.10 (0.97–1.24)
6	733	10.51	1.13 (1.00–1.28)	803	11.51	1.07 (0.96–1.20)
7	1255	10.44	1.10 (0.98–1.23)	1440	11.98	1.08 (0.97–1.20)
8	3830	9.90	1.04 (0.93–1.16)	4711	12.18	1.04 (0.95–1.15)
9	7621	9.60	0.99 (0.89–1.10)	9779	12.32	1.00 (0.91–1.10)
10	305	9.89	1.00 (Reference)	372	12.07	1.00 (Reference)
5-Min Apgar						
0	6	30.00	3.13 (1.52–6.44)	<5	<25.00	1.27 (0.43–3.70)
1	<5	<31.25	1.23 (0.38–3.92)	<5	<31.25	1.75 (0.74–4.13)
2	5	17.86	1.95 (0.86–4.43)	7	25.00	2.19 (1.09–4.41)
3	13	15.66	1.79 (1.11–2.91)	14	16.87	1.63 (1.00–2.68)
4	14	13.21	1.44 (0.89–2.34)	15	14.15	1.33 (0.84–2.12)
5	29	10.00	1.11 (0.78–1.57)	29	10.00	0.94 (0.67–1.33)
6	96	10.30	1.09 (0.90–1.31)	107	11.48	1.03 (0.87–1.23)
7	243	10.23	1.14 (1.01–1.29)	255	10.74	1.04 (0.92–1.16)
8	809	10.55	1.13 (1.06–1.22)	895	11.67	1.07 (1.00–1.14)
9	9939	9.82	1.04 (1.00–1.07)	12595	12.45	1.03 (1.00–1.06)
10	3637	9.73	1.00 (Reference)	4351	11.64	1.00 (Reference)

*Adjusted for child's sex (male vs female), child's age at EDI completion (years), socioeconomic status (1st quintile, 2nd quintile, 3rd quintile, 4th quintile vs 5th quintile) child's first language (others vs English), birth order (2, 3, +4 vs 1), birth weight-for-gestational age (large, small vs appropriate), gestational age (weeks).