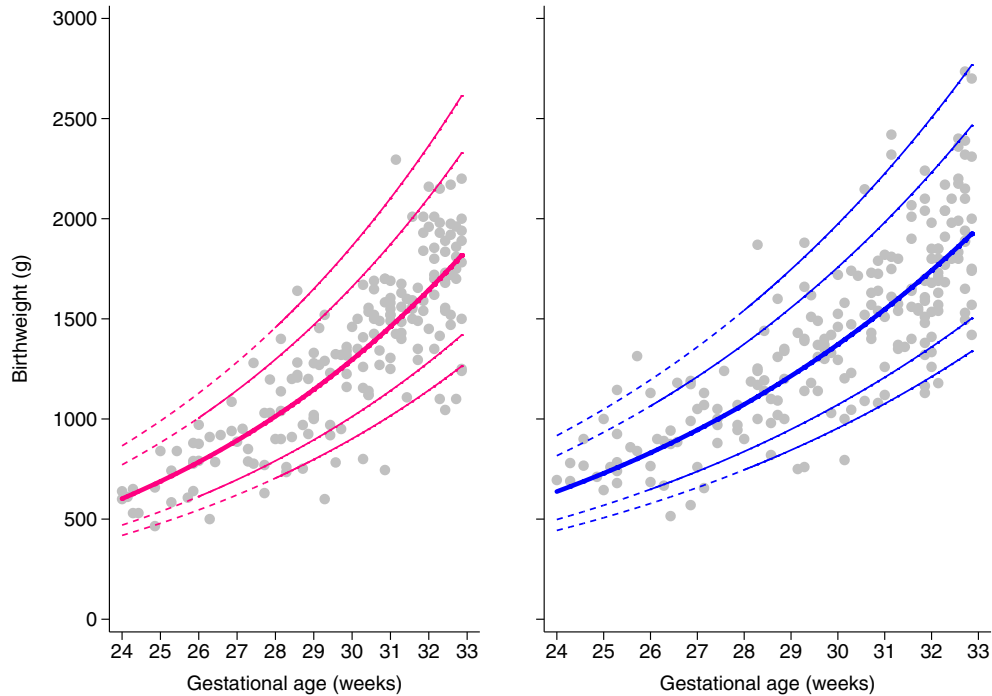


e-Table 1. Maternal baseline characteristics, perinatal events, and newborn baby measures

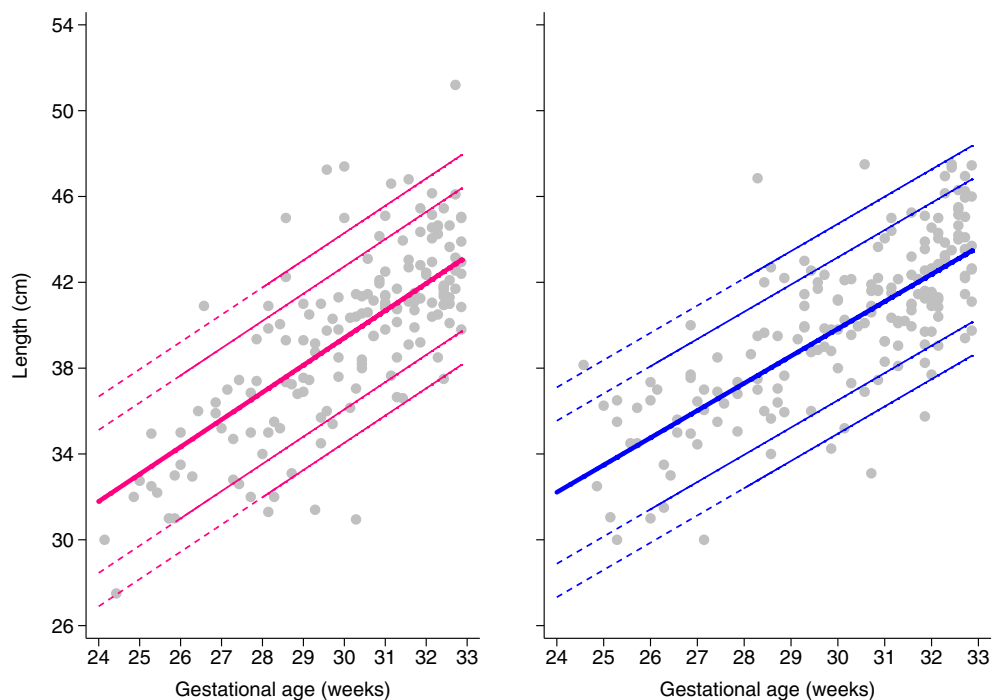
	<33 weeks (n = 408)	NCSS total (n=20,486)
Maternal age (years) (SD)	29.9 (6.3)	28.0 (4.0)
Maternal height (cm) (SD)	161.0 (7.2)	161.8 (5.6)
Maternal weight (kg) (SD)	63.1 (12.7)	61.3 (8.6)
Body Mass Index (kg/m ²) (SD)	24.3 (4.4)	23.4 (2.9)
Gestational age at first visit (weeks) (SD)	14.8 (6.3)	14.8 (6.0)
Years of formal education (SD)	12.7 (3.9)	14.2 (3.0)
Haemoglobin level before 15 weeks (g/dl) (SD)	12.2 (1.3)	12.3 (1.2)
Married/cohabiting (%)	376 (92.2)	19877 (97.0)
Nulliparous (%)	223 (54.7)	12996 (63.4)
Pre-eclampsia (%)	42 (10.3)	256 (1.2)
Pyelonephritis (%)	6 (1.5)	54 (0.3)
Any sexually transmitted infection (%)	7 (1.7)	68 (0.3)
Spontaneous initiation of labour (%)	228 (55.9)	13470 (65.8)
Caesarean section (%)	234 (57.4)	7452 (36.4)
NICU admission >1 day (%)	355 (87.0)	1184 (5.8)
LBW (<2500g) (%)	382 (93.6)	1129 (5.5)
Neonatal mortality (%)	45 (11.0)	22 (0.1)
Male sex (%)	214 (52.5)	10482 (51.2)
Exclusive breastfeeding at discharge (%)	136 (33.3)	17992 (87.8)
Any breastfeeding at discharge (%)	282 (69.1)	19,499 (95.2)
Mother admitted to intensive care unit (%)	7 (1.7)	38 (0.2)
Birthweight (kg) (SD)	1.389 (0.45)	3.3 (0.5)
Birth length (cm) (SD)	39.9 (4.0)	49.3 (1.8)
Birth HC (cm) (SD)	27.7 (2.6)	33.9 (1.3)

NCSS – Newborn Cross-sectional Study cohort of women enrolled in The INTERGROWTH-21st Project who met strict individual eligibility criteria for a population at low risk of impaired fetal growth. Only includes pregnancies leading to one live birth and no congenital malformations. All values are means (SD) for continuous variables and absolute numbers (percentages) for categorical variables.

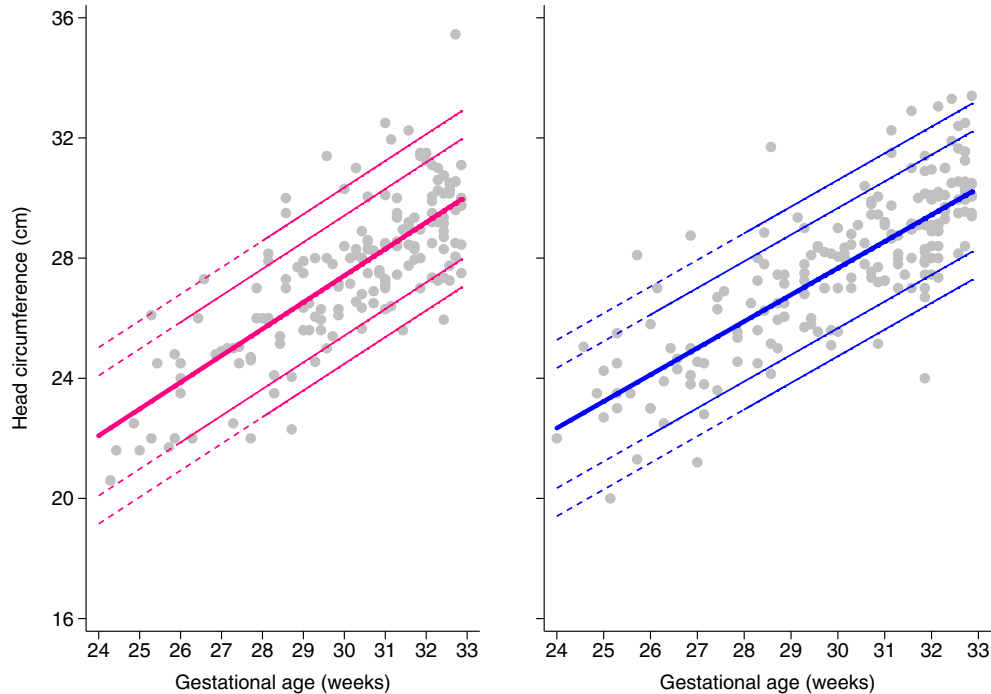
e-Figure 1A: The 3rd, 10th, 50th, 90th and 97th smoothed centile curves for birthweight according to gestational age. Girls (pink, left panel); boys (blue, right panel). The fitted centiles were obtained using fractional polynomial regression by fitting separate models for the mean and standard deviation as a function of gestational age. Of note, the centiles ≤ 10 th and ≥ 90 th below 26 weeks (dashed lines) should be interpreted with caution given the small sample size.



e-Figure 1B: The 3rd, 10th, 50th, 90th and 97th smoothed centile curves for birth length according to gestational age. Girls (pink, left panel); boys (blue, right panel). The fitted centiles were obtained using fractional polynomial regression by fitting separate models for the mean and standard deviation as a function of gestational age. Of note, the centiles ≤ 10 th and ≥ 90 th below 26 weeks (dashed lines) should be interpreted with caution given the small sample size.



e-Figure 1C: The 3rd, 10th, 50th, 90th and 97th smoothed centile curves for birth head circumference according to gestational age. Girls (pink, left panel); boys (blue, right panel). The fitted centiles were obtained using fractional polynomial regression by fitting separate models for the mean and standard deviation as a function of gestational age. Of note, the centiles $\leq 10^{\text{th}}$ and $\geq 90^{\text{th}}$ below 26 weeks (dashed lines) should be interpreted with caution given the small sample size.



e-Table 2. Smoothed centiles for birthweight of boys and girls according to gestational age. The fitted centiles were obtained using fractional polynomial regression by fitting separate models for the mean and standard deviation as a function of gestational age. Of note, the centiles $\leq 10^{\text{th}}$ and $\geq 90^{\text{th}}$ below 26 weeks should be interpreted with caution given the small sample size.

Gestational age (weeks)	Number of observations	Centiles for weight (Kg)					Number of observations	Centiles for weight (Kg)				
		Boys						Girls				
		3 rd	10 th	50 th	90 th	97 th		3 rd	10 th	50 th	90 th	97 th
24	6	0.44	0.50	0.64	0.82	0.92	8	0.42	0.47	0.60	0.77	0.87
25	11	0.51	0.57	0.73	0.93	1.05	9	0.48	0.54	0.69	0.88	0.99
26	15	0.58	0.65	0.83	1.06	1.20	9	0.55	0.61	0.78	1.01	1.13
27	13	0.66	0.74	0.95	1.21	1.36	11	0.62	0.70	0.89	1.14	1.28
28	21	0.75	0.84	1.07	1.37	1.54	17	0.70	0.79	1.01	1.30	1.46
29	22	0.84	0.95	1.21	1.56	1.75	22	0.80	0.90	1.15	1.47	1.65
30	26	0.95	1.07	1.37	1.76	1.97	25	0.90	1.01	1.30	1.66	1.86
31	37	1.08	1.21	1.55	1.98	2.23	33	1.02	1.14	1.46	1.87	2.10
32	52	1.21	1.36	1.74	2.23	2.50	45	1.14	1.28	1.64	2.11	2.37
Total	203						179					

e-Table 3. Smoothed centiles for birth length of boys and girls according to gestational age. The fitted centiles were obtained using fractional polynomial regression by fitting separate models for the mean and standard deviation as a function of gestational age. Of note, the centiles $\leq 10^{\text{th}}$ and $\geq 90^{\text{th}}$ below 26 weeks should be interpreted with caution given the small sample size.

Gestational age (weeks)	Number of observations	Centiles for length (cm)					Number of observations	Centiles for length (cm)				
		Boys						Girls				
		3 rd	10 th	50 th	90 th	97 th		3 rd	10 th	50 th	90 th	97 th
24	2	27.33	28.88	32.21	35.55	37.10	3	26.90	28.46	31.79	35.12	36.68
25	8	28.60	30.15	33.48	36.82	38.37	7	28.17	29.73	33.06	36.39	37.95
26	13	29.87	31.42	34.75	38.09	39.64	7	29.44	31.00	34.33	37.66	39.22
27	12	31.14	32.69	36.02	39.36	40.91	11	30.71	32.27	35.60	38.93	40.49
28	17	32.41	33.96	37.29	40.63	42.18	16	31.98	33.54	36.87	40.20	41.76
29	18	33.68	35.23	38.56	41.90	43.45	21	33.25	34.81	38.14	41.47	43.03
30	24	34.95	36.50	39.83	43.17	44.72	22	34.52	36.08	39.41	42.74	44.30
31	36	36.22	37.77	41.10	44.44	45.99	32	35.79	37.35	40.68	44.01	45.57
32	51	37.49	39.04	42.37	45.71	47.26	43	37.06	38.62	41.95	45.28	46.84
Total	181						162					

e-Table 4. Smoothed centiles for birth head circumference of boys and girls according to gestational age. The fitted centiles were obtained using fractional polynomial regression by fitting separate models for the mean and standard deviation as a function of gestational age. Of note, the centiles $\leq 10^{\text{th}}$ and $\geq 90^{\text{th}}$ below 26 weeks should be interpreted with caution given the small sample size.

Gestational age (weeks)	Number of observations	Centiles for HC (cm)					Number of observations	Centiles for HC (cm)				
		Boys						Girls				
		3 rd	10 th	50 th	90 th	97 th		3 rd	10 th	50 th	90 th	97 th
24	3	19.41	20.34	22.34	24.34	25.28	3	19.16	20.09	22.09	24.09	25.02
25	10	20.29	21.23	23.23	25.23	26.16	7	20.04	20.98	22.98	24.98	25.91
26	13	21.18	22.12	24.12	26.12	27.05	7	20.93	21.87	23.87	25.86	26.80
27	12	22.07	23.01	25.00	27.00	27.94	11	21.82	22.75	24.75	26.75	27.69
28	19	22.96	23.89	25.89	27.89	28.83	16	22.71	23.64	25.64	27.64	28.57
29	19	23.85	24.78	26.78	28.78	29.71	22	23.59	24.53	26.53	28.53	29.46
30	25	24.73	25.67	27.67	29.67	30.60	24	24.48	25.42	27.42	29.41	30.35
31	37	25.62	26.56	28.55	30.55	31.49	33	25.37	26.30	28.30	30.30	31.24
32	52	26.51	27.44	29.44	31.44	32.38	43	26.26	27.19	29.19	31.19	32.13
Total	190						166					