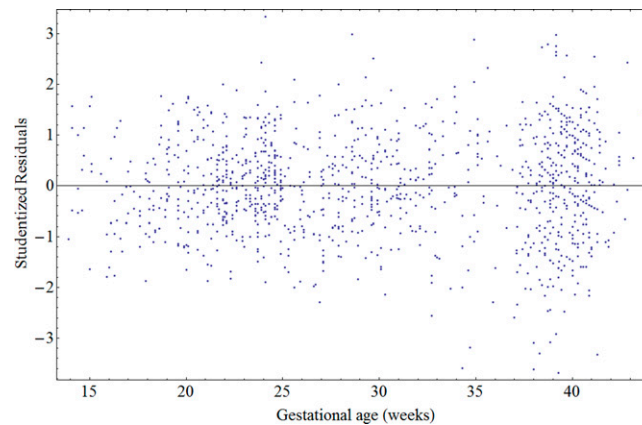
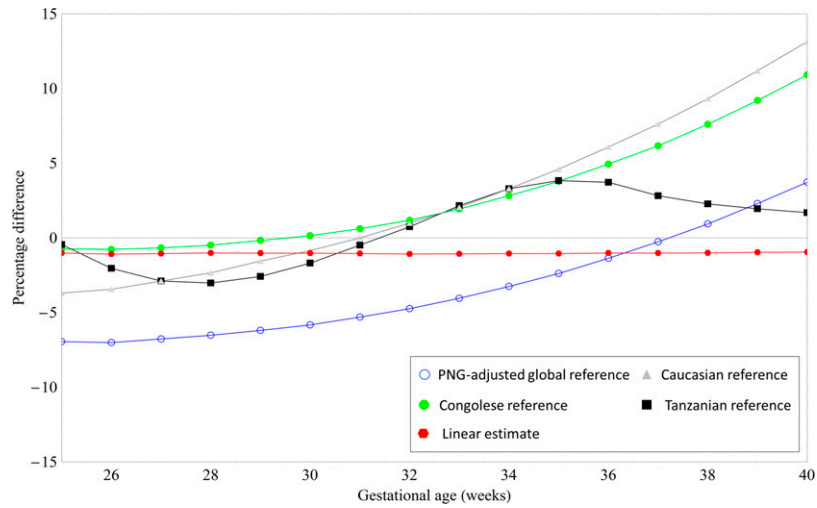


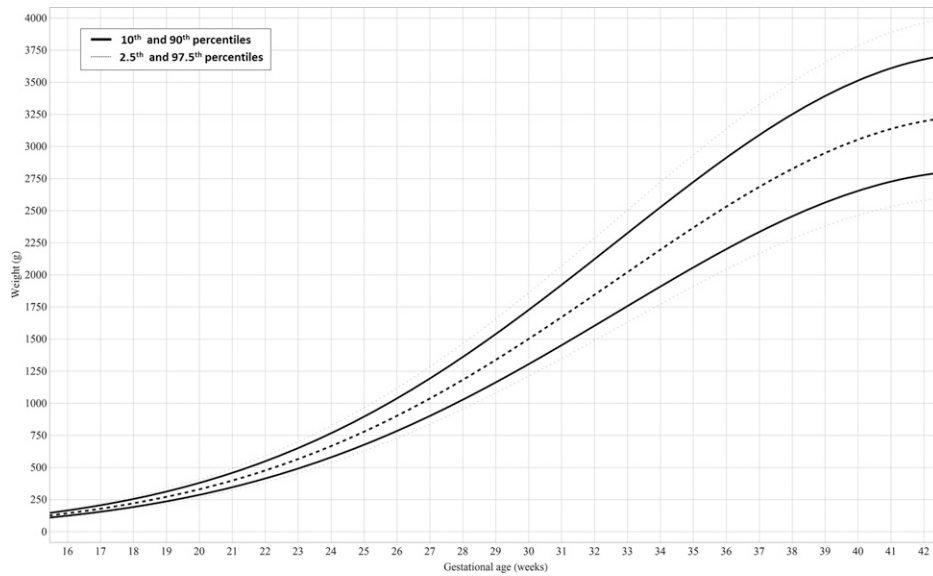
SUPPLEMENTAL FIGURE 1. Bland and Altman analysis to compare two methods ([**A**] constant weight increase versus [**B**] dynamic ratio method) with measured birth weights (BWs). BW predicted by methods A and B overestimated BW_M by means of 217 and 284 g, respectively. BW_E = estimated birth weight; BW_M = measured birth weight.



SUPPLEMENTAL FIGURE 2. Studentized residuals of estimated fetal weight/birth weight (log-transformed) across gestational age (weeks) from the fit of the regression model.



SUPPLEMENTAL FIGURE 3. Percentage difference in the 10th centiles of fetal weight using our model (straight line) and the 10th centile derived from linear instead of logarithmic values (hexagons) assuming a constant variation of 10.9% around the mean. Exponentiation of the SD distorted the 10th centile upward (1%). Note that, when expressed as a percentage of estimated fetal weight, residuals in our cohort were relative constant throughout gestation at $\pm 10.9\%$ (1 SD). PNG = Papua New Guinea.



SUPPLEMENTAL FIGURE 4. Fetal weight chart for clinical use in rural Papua New Guinea.

SUPPLEMENTAL TABLE 3

Number of ultrasound-derived estimates of fetal weight ($N = 788$) and fetal biometric measurements (one per woman) used to generate the Papua New Guinea fetal weight nomogram and evaluate fetal size (abdominal circumference and femur length, $N = 439$; head circumference, $N = 434$; Madang Province, Papua New Guinea, 2009–2012)

Gestational age (weeks)	Estimated fetal weight (g)				Abdominal circumference (mm)				Femur length (mm)				Head circumference (mm)			
	<i>N</i>	Mean \pm SD	Max	Min	<i>N</i>	Mean \pm SD	Max	Min	<i>N</i>	Mean \pm SD	Max	Min	<i>N</i>	Mean \pm SD	Max	Min
14	12	102 \pm 12	79	121	12	88 \pm 9	72	99	12	15 \pm 1	12	17	7	100 \pm 9	83	107
15	9	126 \pm 15	96	142	10	99 \pm 9	83	110	10	18 \pm 2	13	21	10	115 \pm 5	110	121
16	16	152 \pm 20	121	189	14	107 \pm 9	91	122	14	20 \pm 2	17	24	13	128 \pm 4	122	131
17	16	191 \pm 14	169	223	14	118 \pm 6	104	127	14	24 \pm 2	22	28	12	141 \pm 6	135	157
18	26	239 \pm 27	203	310	19	134 \pm 7	123	148	19	27 \pm 2	24	32	15	154 \pm 5	147	168
19	38	301 \pm 27	263	351	22	146 \pm 9	132	163	22	31 \pm 2	28	34	23	164 \pm 4	159	174
20	43	368 \pm 46	276	451	14	158 \pm 12	137	176	14	34 \pm 2	30	37	16	178 \pm 4	171	183
21	58	445 \pm 45	331	583	26	173 \pm 8	150	192	26	36 \pm 2	33	41	25	190 \pm 3	185	195
22	58	506 \pm 46	412	650	19	178 \pm 9	164	197	19	39 \pm 2	34	44	19	201 \pm 2	198	204
23	67	626 \pm 64	497	855	31	189 \pm 8	175	203	31	42 \pm 2	39	47	31	215 \pm 6	208	243
24	91	735 \pm 71	551	973	34	204 \pm 10	187	239	34	45 \pm 2	41	48	36	227 \pm 6	219	236
25	27	812 \pm 107	664	1,070	16	212 \pm 17	192	249	16	46 \pm 2	43	48	16	230 \pm 9	210	241
26	27	938 \pm 121	792	1,243	15	221 \pm 14	202	241	15	48 \pm 2	45	52	16	244 \pm 9	225	259
27	43	1,086 \pm 123	876	1,267	26	230 \pm 12	209	256	26	51 \pm 3	47	58	27	253 \pm 8	239	272
28	40	1,285 \pm 148	1,016	1,764	23	248 \pm 12	232	273	23	54 \pm 3	46	62	24	269 \pm 9	249	288
29	46	1,464 \pm 144	1,188	1,665	27	257 \pm 12	240	278	27	57 \pm 2	52	60	26	276 \pm 7	262	289
30	33	1,593 \pm 183	1,229	1,968	15	267 \pm 18	234	295	15	58 \pm 2	56	63	14	285 \pm 7	275	294
31	31	1,733 \pm 136	1,459	2,081	12	273 \pm 9	258	286	12	60 \pm 2	56	63	15	290 \pm 8	272	301
32	35	1,950 \pm 209	1,491	2,330	24	286 \pm 13	262	314	24	62 \pm 2	56	67	25	296 \pm 7	284	308
33	15	2,197 \pm 308	1,721	2,697	14	297 \pm 18	266	327	14	63 \pm 3	56	67	13	304 \pm 10	279	317
34	19	2,252 \pm 417	1,522	3,216	17	299 \pm 21	268	346	17	65 \pm 5	54	72	16	304 \pm 14	279	329
35	15	2,558 \pm 282	1,962	3,177	14	312 \pm 15	283	341	14	66 \pm 3	58	70	13	314 \pm 14	291	336
36	7	2,588 \pm 286	2,122	2,987	7	310 \pm 15	286	326	7	68 \pm 2	65	72	7	315 \pm 14	296	340
37*	11	2,681 \pm 397	2,025	3,286	9	321 \pm 24	288	352	9	67 \pm 3	62	72	10	319 \pm 11	297	330
38	2	3,087 \pm 25	3,069	3,105	2	333 \pm 14	324	343	2	71 \pm 3	69	73	2	330 \pm 11	322	338
39	3	2,975 \pm 413	2,538	3,360	3	324 \pm 19	303	340	3	72 \pm 3	69	75	3	327 \pm 5	323	333

Max = maximum; Min = minimum.

*In total, 376 birth weights were included in the weight nomogram: 33 birth weights at 37 gestational weeks, 83 birth weights at 38 gestational weeks, 101 birth weights at 39 gestational weeks, 40 birth weights at 40 gestational weeks, 37 birth weights at 41 gestational weeks, and 12 birth weights at 42 gestational weeks.