

Supplementary

Details of the mixed models used to model the change in anthropological measures over time.
The trend over time is analysed to allow for a linear relationship over time with a single term for time. Longitudinal mixed modelling is applied including a random intercept and slope terms.

Table 1. Longitudinal modelling results for Weight z-scores.

	est	Std. dev	t-value	p-value
(Intercept)	0.135	0.223	0.608	0.652
Time	0.042	0.015	2.893	0.032
Gender (Male vs Female)	-0.204	0.191	-1.069	0.472
Treatment (PKU vs Control)	-0.101	0.175	-0.574	0.664
Time: Gender Interaction	-0.020	0.015	-1.320	0.375
Time: PKU Interaction	0.004	0.014	0.314	0.752

Table 2. Longitudinal modelling results for Head Circumference z-scores.

	est	Std. dev	t-value	p-value
(Intercept)	-0.405	0.203	-1.990	0.163
Time	0.311	0.192	1.614	0.271
Gender (Male vs Female)	-0.173	0.181	-0.952	0.519
Treatment (PKU vs Control)	0.009	0.014	0.643	0.639
Time:Gender Interaction	-0.039	0.012	-3.218	0.016
Time:PKU Interaction	-0.001	0.015	-0.047	0.827

Table 3. Longitudinal modelling results for BMI z-scores.

	est	Std. dev	t-value	p-value
(Intercept)	-0.041	0.243	-0.170	0.795
Time	-0.077	0.206	-0.372	0.734
Gender (Male vs Female)	-0.675	0.188	-3.591	0.006
Treatment (PKU vs Control)	0.036	0.015	2.405	0.083
Time:Gender Interaction	0.025	0.014	1.830	0.205
Time:PKU Interaction	0.019	0.015	1.232	0.409

Table 4. Longitudinal modelling results for Length z-scores.

	est	Std. dev	t-value	p-value
(Intercept)	0.316	0.214	1.475	0.319
Time	0.019	0.015	1.278	0.391
Gender (Male vs Female)	-0.348	0.200	-1.739	0.232
Treatment (PKU vs Control)	0.733	0.189	3.872	0.003
Time:Gender Interaction	-0.012	0.016	-0.717	0.611
Time:PKU Interaction	-0.018	0.015	-1.165	0.435

Table 5. Longitudinal modelling results for Length-for-age-difference.

	est	Std. dev	t-value	p-value
(Intercept)	1.401	0.454	3.088	0.021
Time	0.022	0.049	0.439	0.711
Gender (Male vs Female)	-0.379	0.508	-0.747	0.599
Treatment (PKU vs Control)	1.488	0.486	3.060	0.022
Time:Gender Interaction	-0.084	0.042	-1.995	0.162
Time:PKU Interaction	-0.029	0.039	-0.752	0.597

Table 6. Longitudinal modelling results for total Protein Equivalent g/kg/day.

	est	Std. dev	t-value	p-value
(Intercept)	2.410	0.183	13.160	0.000
Time	0.070	0.013	5.426	0.000
Gender (Male vs Female)	0.065	0.177	0.369	0.735
Treatment (PKU vs Control)	0.543	0.162	3.357	0.011
Time:Gender Interaction	-0.001	0.014	-0.077	0.820
Time:PKU Interaction	-0.042	0.013	-3.230	0.015

Table 7. Longitudinal modelling results for Protein Intake g/100kcal.

	est	Std. dev	t-value	p-value
(Intercept)	2.320	0.170	13.681	0.000
Time	0.102	0.013	7.615	0.000
Gender (Male vs Female)	0.040	0.176	0.225	0.779
Treatment (PKU vs Control)	0.736	0.161	4.566	0.000
Time:Gender Interaction	-0.018	0.014	-1.248	0.403
Time:PKU Interaction	-0.057	0.013	-4.411	0.001

Table 8. Longitudinal modelling results for Carbohydrates g/kg/day.

	est	Std. dev	t-value	p-value
(Intercept)	12.340	0.700	17.619	0.000
Time	-0.074	0.053	-1.397	0.347
Gender (Male vs Female)	1.137	0.699	1.627	0.267
Treatment (PKU vs Control)	-1.490	0.639	-2.331	0.095
Time:Gender Interaction	-0.001	0.056	-0.023	0.833
Time:PKU Interaction	0.232	0.051	4.521	0.000

Table 9. Longitudinal modelling results for Total Energy kcal/day.

	est	Std. dev	t-value	p-value
(Intercept)	644.427	44.814	14.380	0.000
Time	21.690	3.525	6.154	0.000
Gender (Male vs Female)	36.694	44.372	0.827	0.568
Treatment (PKU vs Control)	-72.867	40.121	-1.816	0.209
Time:Gender Interaction	5.233	3.554	1.473	0.319
Time:PKU Interaction	7.811	3.219	2.427	0.080

Table 10. Total energy intake as a percentage of DRV [25] for PKU and control groups and males vs. females (mean (range)).

	All		Males		Females	
	PKU	Control	PKU	Control	PKU	Control
4m	118 (72–153)	135 (109–166)	127 (105–153)	124 (109–153)	101 (72–120)	145 (124–166)
5m	121 (82–174)	117 (94–173)	126 (82–174)	114 (94–151)	110 (84–122)	119 (100–173)
6m	118 (92–164)	122 (96–160)	120 (95–164)	117 (96–148)	114 (92–128)	129 (112–160)
7m	116 (81–166)	120 (89–170)	116 (81–166)	115 (89–161)	115 (100–135)	127 (104–170)
8m	124 (91–192)	125 (88–168)	125 (91–192)	123 (88–156)	122 (100–168)	129 (94–168)
9m	136 (83–184)	137 (96–195)	134 (83–184)	136 (96–195)	140 (104–177)	140 (125–165)
10m	142 (85–218)	137 (98–165)	145 (85–218)	133 (98–165)	135 (111–173)	144 (121–165)
11m	140 (100–206)	150 (104–186)	140 (100–206)	151 (104–184)	140 (109–184)	149 (123–186)
12m	131 (81–186)	133 (91–179)	127 (81–186)	127 (91–167)	139 (110–172)	141 (114–179)
15m	155 (107–198)	145 (108–196)	159 (120–197)	141 (108–196)	146 (107–198)	150 (136–162)
18m	154 (83–198)	147 (111–208)	164 (123–198)	147 (111–208)	130 (83–181)	147 (115–183)
24m	134 (73–194)	123 (79–180)	136 (81–190)	122 (79–180)	131 (73–194)	126 (103–163)