Supplementary Table 1: Nutrient intake data from complementary feeding of AGA and SGA infants

Parameter	**n(AGA/SGA)**	**7 mo. (140/56)**	**10 mo. (141/38)**	**12 mo. (154/47)**
		Median (IQR)	**Median (IQR)**	**Median (IQR)**
Energy (Kcal)	**AGA**	585.9 (526.2, 672.5)	709.6 (640.4, 796.2)	843.0 (733.7, 932.6)
	SGA	597.8 (531.8, 650.1)	687.2 (606.7, 758.6)	824.0 (760.5, 938.6)
	***P* Value**	0.839	0.188	0.759
Energy (kcal/kg body weight)	**AGA**	84.3 (74.5, 97.2)	89.6 (79.2, 105.5)	84.3 (74.5, 97.2)
	SGA	93.6 (78.8, 106,9)	97.8 (80.7, 114.7)	106.6 (96.5, 121.9)
	***P* Value**	**0.040**	0.076	**0.011**
Protein (g)	**AGA**	11.4 (9.8, 14.4)	15.3 (12.5, 17.9)	20.3 (16.5, 23.5)
	SGA	11.4 (9.9, 13.7)	14.3 (12.7, 17.8)	20.0 (17.0, 25.6)
	***P* Value**	0.951	0.676	0.672
Fat (g)	**AGA**	26.5 (23.8, 29.0)	28.9 (24.9, 32.9)	31.4 (27.9, 38.1)
	SGA	26.2 (23.4, 28.2)	27.2 (22.8, 33.0)	31.7 (28.7, 36.8)
	***P* Value**	0.592	0.180	0.933
Total crude Fiber (g)	**AGA**	0.7 (0.4, 1.0)	1.2 (0.8, 1.8)	1.8 (1.3, 2.4)
	SGA	0.7 (0.4. 1.0)	1.1 (0.5, 1.7)	1.6 (1.2, 2.1)
	***P* Value**	0.893	0.134	0.079
Carbohydrate (g)*	**AGA**	74.6 (66.1, 87.0)	96.1 (82.7, 108.1)	114.8 (99.8, 131.8)
	SGA	78.6 (67.4, 86.3)	94.3 (80.4, 109.0)	114.4 (98.5, 130.2)
	***P* Value**	0.383	0.584	0.801
Calcium (mg)	**AGA**	266.7 (227.3, 310.4)	315.9 (261.1, 388.5)	326.6 (272.8, 452.9)
	SGA	251.9 (223.3, 323.5)	329.2 (247.4, 430.7)	357.2 (283.1, 518.3)

	***P* Value**	0.821	0.409	0.095
Iron (mg)	**AGA**	1.6 (1.0, 2.4)	2.7 (2.0, 3.7)	4.3 (3.3, 5.5)
	SGA	1.7 (1.1, 2.7)	3.0 (1.9, 3.8)	3.8 (3.1, 5.1)
	***P* Value**	0.243	0.968	0.153
Zinc (mg)	**AGA**	1.4 (1.1, 1.7)	2.0 (1.6, 2.4)	2.7 (2.2, 3.1)
	SGA	1.3 (1.1, 1.8)	1.9 (1.5, 2.4)	2.5 (2.1, 3.3)
	***P* Value**	0.987	0.658	0.665
Vitamin A (IU)	**AGA**	1572.1 (1465.2,1814.9)	1756.2 (1533.5,2131.7)	1956.9 (1667.5, 2899.3)
	SGA	1668.3 (1460.2, 2325.2)	1837.7 (1481.2, 2305.5)	1820.2 (1614.6, 2166.2)
	***P* Value**	0.173	0.926	**0.039**
Vitamin B12 (µg)	**AGA**	0.06 (0.02, 0.18)	0.17 (0.05, 0.37)	0.36 (0.13, 0.72)
	SGA	0.08 (0.03, 0.21)	0.13 (0.07, 0.54)	0.34 (0.22, 1.02)
	***P* Value**	0.181	0.311	0.412
***Infant And young child feeding indicators* (24) n (%)**				
Minimum meal frequency (MMF)	**AGA**	128 (91.4)	137 (97.2)	151 (98.1)
	SGA	55 (98.2)	38 (100.0)	47 (100.0)
	***P* Value**	0.114	0.580	0.336
Minimum dietary diversity (MDD)	**AGA**	74 (52.9)	81 (57.4)	146 (95.4)
	SGA	35 (62.5)	21 (56.7)	43 (91.5)
	***P* Value**	0.266	0.718	0.290
Minimum acceptable diet (MAD)	**AGA**	72 (51.4)	79 (56.0)	139 (90.8)
	SGA	34 (60.7)	22 (56.4)	40 (91.5)
	***P* Value**	0.269	1.000	0.280
Egg and flesh food consumption (EFF)	**AGA**	25 (17.9)	141 (100.0)	97 (63.4)
	SGA	8 (14.3)	39 (100.0)	28 (59.6)
	***P* Value**	0.674	1.000	0.731
Sweet beverages (SwB)	**AGA**	17 (12.0)	15 (10.6)	21 (13.6)
	SGA	6 (10.5)	1 (2.0)	7 (11.9)
	***P* Value**	1.000	0.074	0.824
Unhealthy food consumption (UFC)	**AGA**	39 (27.5)	58 (41.4)	91 (59.1)
	SGA	18 (31.6)	24 (47.1)	38 (64.4)
	***P* Value**	0.604	0.511	0.533
Zero vegetable and	**AGA**	47 (33.6)	21 (14.9)	2 (1.3)

fruit consumption (ZVF)	**SGA**	9 (16.1)	6 (15.4)	2 (4.3)
	***P* Value**	**0.015**	1.000	0.235

[#] *AGA-Appropriate for gestational age; SGA-Small for gestational age; * denote carbohydrate by difference.*

Values are median (IQR-interquartile range) for continuous outcomes; n (Percentage) for categorical variable; P value <0.05 was considered significant.

(Friedman's Two-way ANOVA and median regression with mixed effects (with time and group interaction) and pairwise comparisons by the Dwass-Steel-Critchlow-Flinger test) or Chi-square. test as appropriate).

Supplementary Table 2: Comparison of velocities of anthropometric and growth indicator between AGA and SGA infants at 3 mo. intervals from 0-12 mo.

Parameter	**n(AGA/SGA)**	**0-3 mo.** (137/41)	**3-6 mo.** (112/45)	**6-9 mo.** (120/49)	**9-12 mo.** (137/44)
		Median (IQR)	**Median (IQR)**	**Median (IQR)**	**Median (IQR)**
Weight (g/d)	**AGA**	28.15 (26.63, 29.59)	14.94 (14.19, 15.74)	8.95 (8.70, 9.28)	6.62 (6.45, 6.79)
	SGA	27.06 (25.90, 29.53)	15.02 (15.00, 15.80)	8.88 (8.47, 9.20)	6.70 (6.51, 6.85)
	***P* Value**	0.071	0.953	0.125	**0.030**
Length (cm/d)	**AGA**	0.1185 (0.1166, 0.1217)	0.0654 (0.0616, 0.0689)	0.0443 (0.0409, 0.0473)	0.0339 (0.0327, 0.0361)
	SGA	0.1181 (0.1159, 0.1218)	0.0661 (0.0636, 0.07)	0.0435 (0.0404, 0.0458)	0.0339 (0.0328, 0.0359)
	***P* Value**	0.538	0.067	0.148	0.669
Head circumference (cm/d)	**AGA**	0.0594 (0.0583, 0.0609)	0.0269 (0.0261, 0.0278)	0.0149 (0.0145, 0.0152)	0.0113 (0.0106, 0.0125)
	SGA	0.0591 (0.0584, 0.0611)	0.0269 (0.0265, 0.0282)	0.0147 (0.0142, 0.0150)	0.0114 (0.0107, 0.0123)
	***P* Value**	0.438	0.185	**0.002**	0.968
HAZ/ mo.	**AGA**	0.1091 (-0.0066. 0.2600)	0.0290 (-0.1592. 0.1925)	-0.0188 (-0.1235. 0.0716)	-0.0730 (-0.1483. 0.0512)
	SGA	0.0846 (-0.0686, 0.2186)	0.0497 (-0.0326, 0.2623)	-0.0234 (-0.1348, 0.1108)	-0.0513 (-0.1798, 0.0507)
	***P* Value**	0.564	0.708	**0.043**	0.136

WAZ/mo.	**AGA**	0.0570 (-0.2115. 0.2047)	0.0136 (-0.0718. 0.1043)	-0.0179 (-0.0998. 0.0465)	-0.0106 (-0.0745. 0.0480)
	SGA	0.0450 (-0.0903, 0.2617)	0.0782 (-0.0438, 0.2322)	0.0066 (-0.0662, 0.0704)	-0.0260 (-0.0970, 0.0382)
	***P* Value**	0.065	0.848	0.110	0.892
WHZ/mo.	**AGA**	-0.0495 (-0.3081. 0.2182)	-0.0135 (-0.1495. 0.1779)	-0.0161 (-0.1462. 0.0799)	-0.0205 (-0.1127. 0.0804)
	SGA	0.1579 (-0.1022, 0.4422)	-0.0453 (-0.4114, 0.0854)	-0.0633 (-0.1650, 0.1264)	-0.0649 (-0.1620, 0.0620)
	***P* Value**	**0.009**	**0.018**	0.575	**0.001**

[#] *AGA-Appropriate for gestational age; SGA-Small for gestational age; WAZ-Weight for age Z score; HAZ-Height for age Z score; WHZ-Weight for height Z score.*

*Values are median (IQR-interquartile range) adjusted for gender, maternal age, and maternal weight; * Z scores adjusted only for maternal age and maternal weight.*

P value <0.05 was considered significant (Friedman's Two Way ANOVA and median regression with mixed effects (with time and group interaction) and pairwise comparisons by the Dwass-Steel-Critchlow-Flinger test).

Supplementary Table 3: Comparison of velocities of anthropometric and growth indicators stratified by sex in AGA and SGA infants at 3 mo. intervals from 0-12 mo.

Parameter	**n(AGA/SGA)**	**Gender**	**0-3 mo.** (137/41)	**3-6 mo.** (112/45)	**6-9 mo.** (120/49)	**9-12 mo.** (137/44)Conf
			Median (IQR)	**Median (IQR)**	**Median (IQR)**	**Median (IQR)**
Weight (g/d)	**AGA**	*Boys*	29.59 (28.95, 30.00)	14.55 (13.86, 15.10)	9.08 (8.78, 9.39)	6.45 (6.39, 6.50) [a]
		Girls	26.64 (25.89, 27.31)	15.65 (14.67, 16.17)	8.88 (8.55, 9.21)	6.79 (6.73, 6.84)
		P Value	**<0.001**	**<0.001**	**0.002**	**<0.001**
	SGA	*Boys*	29.64 (28.66, 30.04)	14.91 (13.85, 15.29)	9.05 (8.55, 9.15)	6.50 (6.42, 6.56)
		Girls	26.03 (25.59, 26.76)	15.19 (14.37, 16.14)	8.82 (8.41, 9.16)	6.82 (6.74, 6.92)
		P Value	**<0.001**	0.060	0.306	**<0.001**
Length (cm/d)	**AGA**	*Boys*	0.1217 (0.1205, 0.1226)	0.0613 (0.0597, 0.0627)	0.0473 (0.0459, 0.0489)	0.0344 (0.0331, 0.0354)
		Girls	0.1167 (0.1155, 0.1177)	0.0701 (0.0689, 0.0714)	0.0416 (0.0402, 0.0429)	0.0362 (0.0343, 0.0374)
		P Value	**<0.001**	**<0.001**	**<0.001**	**<0.001**
	SGA	*Boys*	0.1221 (0.1208, 0.1233)	0.0621 (0.0604, 0.0640)	0.0470 (0.0447, 0.0480)	0.0347 (0.0327, 0.0354)
		Girls	0.1161 (0.1149, 0.1179)	0.0707 (0.0686, 0.0730)	0.0415 (0.0395, 0.0431)	0.0350 (0.0338, 0.0366)

		P Value	**<0.001**	**<0.001**	**<0.001**	**<0.001**
Head circumference (cm/d)	**AGA**	*Boys*	0.0599 (0.0594, 0.6052)	0.0265 (0.0260, 0.0269)	0.0170 (0.0164, 0.0175)	0.0027 (0.0016, 0.0036)
		Girls	0.0599 (0.0595, 0.0604)	0.0268 (0.0265, 0.0271) [a]	0.0169 (0.0164, 0.0174)	0.0362 (0.0343, 0.0374)
		P Value	0.648	0.059	0.787	0.123
	SGA	*Boys*	0.0603 (0.0595, 0.0610)	0.0270 (0.0262, 0.0272)	0.0168 (0.0160, 0.0172)	0.0033 (0.0016, 0.0039)
		Girls	0.0601 (0.0594, 0.0610)	0.0268 (0.0265, 0.0271)	0.0169 (0.0162, 0.0175)	0.0026 (0.0012, 0.0041)
		P Value	0.570	0.630	0.594	0.668
HAZ/mo.	**AGA**	*Boys*	0.0995 (0.0882, 0.1094)	0.0494 (0.0372, 0.0593)	-0.0332 (-0.0546, 0.0100)	-0.1962 (-0.2427, -0.1652)
		Girls	0.1024 (0.0910, 0.1116)	0.0549 (0.0373, 0.0643)	-0.0319 (-0.0507, 0.0136)	-0.1767 (-0.2374, -0.1262)
		P Value	0.336	0.103	0.704	0.050
	SGA	*Boys*	0.1053 (0.0942, 0.1152)	0.0555 (0.0367, 0.062)	-0.0418 (-0.0736, 0.0210)	-0.1866 (-0.2639, -0.1591)
		Girls	0.1001 (0.0878, 0.1149)	0.0463 (0.0324, 0.0634)	-0.0389 (-0.0740, 0.0075)	-0.2224 (-0.2586, -0.1591)
		P Value	0.594	0.643	0.582	0.694
WAZ/mo.	**AGA**	*Boys*	0.0068 (-0.0163, 0.0293)	0.0206 (-0.0023, 0.0375)	-0.0101 (-0.0149, 0.0031)	-0.0065 (-0.0082, -0.0031)
		Girls	0.0056 (-0.0149, 0.0261)	0.0277 (0.0054, 0.0474)	-0.0131 (-0.0208, 0.0042)	-0.0077 (- 0.011, -0.0041)
		P Value	0.782	0.187	**0.046**	0.174
	SGA	*Boys*	0.0117	0.0299	-0.0112	-0.0062

			(-0.0039, 0.0488)	(0.0023, 0.0498)	(-0.0156, 0.0004)	(-0.0085, -0.0019)
		Girls	0.0124 (-0.0208, 0.0472)	0.0154 (-0.0078, 0.0495)	-0.0061 (-0.0151, 0.0009)	-0.0046 (-0.0074, -0.0027)
		P Value	0.570	0.618	0.760	0.630
WHZ/mo.	**AGA**	*Boys*	0.0171 (-0.0362, 0.0736) [a]	-0.0417 (-0.0785, -0.0137)	-0.0911 (-0.1759, 0.0189)	-0.0146 (-0.0337, -0.0021)
		Girls	0.0080 (-0.0579, 0.0570)	-0.0254 (-0.0684, 0.0161) [a]	-0.0687 (-0.1562, 0.0014)	-0.023 (-0.0468, -0.0052) [a]
		P Value	0.320	0.050	0.314	0.056
	SGA	*Boys*	0.0707 (-0.0113, 0.1324)	-0.0512 (-0.0938, -0.0155)	-0.0526 (-0.1334, 0.0213)	0.0011 (-0.0258, 0.0094)
		Girls	0.0448 (-0.0387, 0.1360)	-0.0643 (-0.0843, -0.0353)	-0.0896 (-0.1793, 0.0244)	-0.0072 (-0.0168, 0.0058)
		P Value	0.558	0.854	0.630	0.606

[#] *AGA-Appropriate for gestational age; SGA-Small for gestational age; WAZ-Weight for age Z score; HAZ-Height for age Z score; WHZ-Weight for height Z score.*

Values are median (IQR-interquartile range) adjusted for maternal age, and maternal weight.

P value <0.05 was considered significant comparing Boys vs. Girls by group; [a] denotes significantly different from sex specific SGA counterpart. (Friedman's Two Way ANOVA and median regression with mixed effects (with time and group interaction) and pairwise comparisons by the Dwass-Steel-Critchlow-Flinger test).

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