Online Supplemental Material

Supplemental Table 1 Maternal plasma omega-3 PUFAs in pregnancy and PPWR at 18 months (n=508)¹

	PPWR (kg)									
	Model 1				Model 2			Model 3		
Omega-3 PUFAs (%)	β	95% CI	P	β	95% CI	P	β	95% CI	P	
ALA	0.49	-2.00, 2.98	0.700	0.50	-1.91, 2.91	0.686	0.55	-1.84, 2.94	0.649	
EPA	-0.94	-1.55, -0.33	0.002	-0.71	-1.32, -0.10	0.023	-0.74	-1.34, -0.13	0.017	
DHA	-0.26	-0.50, -0.03	0.030	-0.26	-0.49, -0.03	0.029	-0.26	-0.49, -0.02	0.031	
Total Omega-3	-0.25	-0.43, -0.06	0.008	-0.22	-0.40, -0.04	0.019	-0.22	-0.40, -0.04	0.016	
LA	0.01	-0.11, 0.11	0.953	-0.02	-0.13, 0.08	0.650	-0.02	-0.13, 0.08	0.686	
AA	-0.12	-0.31, 0.08	0.247	-0.02	-0.23, 0.18	0.815	-0.02	-0.22, 0.19	0.871	
Total Omega-6	0.03	-0.07, 0.14	0.550	0.03	-0.08, 0.13	0.635	0.02	-0.08, 0.13	0.659	
Omega-6:Omega-3 ratio	0.22	0.04, 0.39	0.016	0.20	0.03, 0.38	0.022	0.20	0.03, 0.37	0.023	

¹Data were analyzed using multiple linear regressions. Values are presented in regression coefficients (β) and 95% confidence intervals (CIs). Model 1 was unadjusted; Model 2 was adjusted for maternal age, education, ethnicity, parity, gestational diabetes, early pregnancy body mass index, physical activity, smoking exposure and total energy intake; Model 3 was adjusted as for model 2 and additionally adjusted for gestational weight gain per week and mode of feeding. AA, arachidonic acid; ALA, α-linolenic acid; DHA, docosahexaenoic acid; EPA, eicosapentaenoic acid; LA, linoleic acid; CI, confidence interval; PPWR, postpartum weight retention; PUFAs, polyunsaturated fatty acids.

Online Supplemental Material

Supplemental Table 2 Maternal plasma omega-3 PUFAs in pregnancy and risk of PPWR ≥5kg at 18 months (n=508)¹

·	PPWR (≥5 kg)									
	Model 1			Model 2			Model 3			
Omega-3 PUFAs (%)	OR	95% CI	P	OR	95% CI	P	OR	95% CI	P	
ALA	1.43	0.28, 7.43	0.670	1.72	0.29, 10.17	0.550	1.61	0.26, 9.95	0.606	
EPA	0.27	0.12, 0.59	0.001	0.28	0.11, 0.67	0.005	0.27	0.11, 0.66	0.004	
DHA	0.83	0.69, 0.98	0.031	0.80	0.66, 0.97	0.024	0.81	0.6, 0.98	0.032	
Total Omega-3	0.82	0.71, 0.95	0.006	0.81	0.69, 0.95	0.010	0.81	0.69, 0.95	0.010	
LA	1.05	0.97, 1.13	0.247	1.02	0.94, 1.11	0.584	1.04	0.95, 1.13	0.414	
AA	0.83	0.71, 0.97	0.019	0.85	0.71, 1.02	0.077	0.85	0.71, 1.03	0.099	
Total Omega-6	1.01	0.94, 1.09	0.729	1.00	0.92, 1.08	0.944	1.00	0.92, 1.09	0.938	
Omega-6:Omega-3 ratio	1.14	1.02, 1.27	0.022	1.15	1.01, 1.30	0.034	1.15	1.01, 1.31	0.030	

¹Data were analyzed using binary logistic regressions. Values are presented in odds ratios (OR) and 95% confidence intervals (CI). Model 1 was unadjusted; Model 2 was adjusted for maternal age, education, ethnicity, parity, gestational diabetes, early pregnancy body mass index, physical activity, smoking exposure and total energy intake; Model 3 was adjusted as for model 2 and additionally adjusted for gestational weight gain per week and mode of feeding. AA, arachidonic acid; ALA, α-linolenic acid; DHA, docosahexaenoic acid; EPA, eicosapentaenoic acid; LA, linoleic acid; CI, confidence interval; PPWR, postpartum weight retention; PUFAs, polyunsaturated fatty acids.