

Table 2. Linear regression: Associations between elevated cord blood immune biomarkers (> 75%ile v. <= 75%ile) and size (z score) at 36 months

		Low exposure (Q1-Q3)		Elevated exposure (Q4)		Crude				Adjusted (GA and Sex)			
Outcome	Exposure (Quartiles)	Mean	SD	Mean	SD	Estimate	95% CI	p value		Estimate	95% CI	p value	
Total Sample													
Weight, z score	IL-1α	-1.83	0.93	-1.79	0.77	0.07	-0.20	0.33	0.62	0.05	-0.21	0.31	0.70
	IL-1β	-1.85	0.91	-1.73	0.82	0.09	-0.18	0.36	0.51	0.11	-0.16	0.38	0.42
	IL-6	-1.80	0.91	-1.88	0.82	-0.02	-0.28	0.25	0.90	-0.03	-0.29	0.24	0.85
	IL-8	-1.79	0.91	-1.91	0.82	-0.07	-0.34	0.20	0.60	-0.03	-0.30	0.24	0.81
	CRP	-1.81	0.93	-1.86	0.71	-0.03	-0.31	0.25	0.82	-0.03	-0.30	0.25	0.84
Length, z score	IL-1α	-2.07	0.98	-2.08	0.89	0.05	-0.21	0.32	0.70	0.05	-0.21	0.31	0.72
	IL-1β	-2.14	0.92	-1.90	1.06	0.18	-0.09	0.44	0.19	0.20	-0.07	0.46	0.14
	IL-6	-2.07	0.97	-2.10	0.92	-0.03	-0.29	0.23	0.83	-0.03	-0.29	0.23	0.80
	IL-8	-2.07	0.94	-2.10	1.02	-0.03	-0.29	0.24	0.83	0.00	-0.26	0.27	0.98
	CRP	-2.05	0.98	-2.16	0.89	-0.10	-0.37	0.17	0.46	-0.09	-0.36	0.17	0.48
Head circumference, z score	IL-1α	-1.52	0.89	-1.56	0.76	-0.06	-0.28	0.16	0.60	-0.07	-0.29	0.15	0.55
	IL-1β	-1.53	0.84	-1.52	0.92	-0.05	-0.27	0.17	0.65	-0.03	-0.25	0.19	0.77
	IL-6	-1.53	0.86	-1.51	0.88	0.02	-0.20	0.24	0.87	0.02	-0.20	0.23	0.89
	IL-8	-1.53	0.82	-1.52	0.98	-0.07	-0.29	0.15	0.56	-0.05	-0.27	0.17	0.68
	CRP	-1.57	0.84	-1.39	0.93	0.16	-0.07	0.38	0.17	0.16	-0.06	0.38	0.16
SGA													
Weight, z score	IL-1α	-2.20	0.91	-2.12	0.86	0.07	-0.34	0.49	0.72	0.05	-0.36	0.45	0.82
	IL-1β	-2.21	0.89	-2.06	0.93	0.12	-0.32	0.55	0.60	0.13	-0.29	0.56	0.53
	IL-6	-2.16	0.92	-2.22	0.84	-0.06	-0.46	0.33	0.75	-0.09	-0.47	0.30	0.66
	IL-8	-2.13	0.92	-2.29	0.85	-0.13	-0.53	0.27	0.52	-0.09	-0.48	0.31	0.66
	CRP	-2.22	0.93	-2.04	0.75	0.13	-0.30	0.57	0.54	0.16	-0.26	0.57	0.46
Length, z score	IL-1α	-2.36	0.95	-2.45	0.90	-0.05	-0.46	0.36	0.81	-0.02	-0.43	0.38	0.90
	IL-1β	-2.38	0.87	-2.40	1.16	-0.10	-0.53	0.33	0.65	-0.03	-0.45	0.39	0.91
	IL-6	-2.33	0.97	-2.50	0.86	-0.18	-0.56	0.21	0.37	-0.17	-0.55	0.20	0.36
	IL-8	-2.33	0.90	-2.52	1.02	-0.22	-0.61	0.17	0.26	-0.16	-0.55	0.22	0.40
	CRP	-2.39	0.95	-2.38	0.93	0.00	-0.40	0.40	0.98	0.06	-0.34	0.45	0.78
Head circumference, z score	IL-1α	-1.82	0.91	-1.94	0.80	-0.19	-0.55	0.17	0.29	-0.16	-0.51	0.19	0.37
	IL-1β	-1.81	0.82	-1.99	1.08	-0.21	-0.58	0.16	0.25	-0.12	-0.49	0.25	0.52
	IL-6	-1.81	0.88	-1.95	0.87	-0.20	-0.54	0.14	0.24	-0.21	-0.54	0.11	0.20
	IL-8	-1.77	0.89	-2.07	0.82	-0.39	-0.73	-0.06	0.02*	-0.34	-0.68	-0.01	0.04*
	CRP	-1.90	0.91	-1.70	0.79	0.07	-0.29	0.42	0.71	0.12	-0.23	0.47	0.50

¹. Z scores for birth size calculated using the Intergrowth-21 standard; postnatal measures were calculated using the WHO growth standards.

². All models adjusted for birth size z score. Adjusted model controlled for gestational age and sex