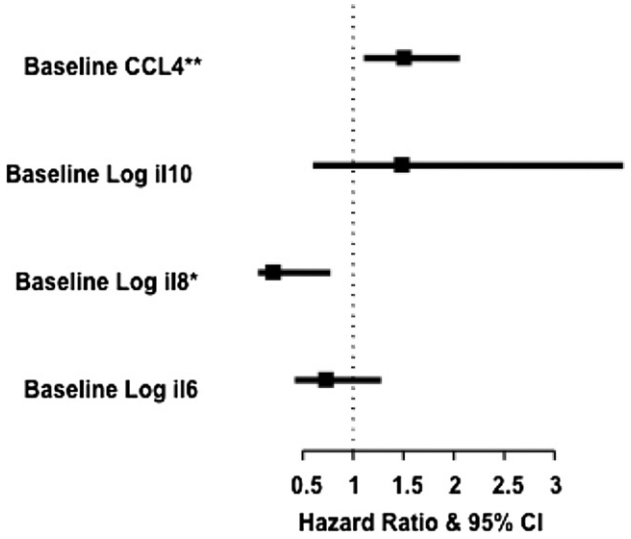

FIGURE E1. Baseline cytokine values are associated with differences in the chance of early extubation in untreated patients younger than 5 months old. *$P < .05$; **$P < .01$. *CI*, Confidence interval; *CCL4*, chemokine (C-C motif) ligand 4.

TABLE E1. Baseline characteristics for entire cohort versus cytokine analysis subset

Characteristic	Cytokine data		*P* value
	No (n = 117)	Yes (n = 76)	
Male gender (n)	54 (46%)	30 (39%)	.44
Risk stratification			.05*
High	31	31	
Low	86	45	
Age (mo)			.04*
Median	5.8	3.6	
Range	0-21.7	0-23.2	
Baseline triiodothyronine (U)	151	180	<.01*
Mean intubation time (h)	89	104	.56
Mean crossclamp time (min)	62	62	.98
Mean bypass time (min)	99	97	.69
Deaths (n)	4	4	.79

All *P* values presented were derived from Student *t* test, except for gender, risk, and death, which were derived from a simple chi-square test. *Statistical significance ($P \leq .05$).

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TABLE E2. Change in cytokine levels in untreated patients after cardiopulmonary bypass at 6 and 24 hours after crossclamping

Variable	Change from baseline to 6 h				Change from baseline to 24 h			
	Patients (n)	Mean	95% CI	*P* value	Patients (n)	Mean	95% CI	*P* value
IL-6	34	2.80	3.23 to 2.37	<.0001*	34	2.83	3.21 to 2.45	<.0001*
IL-8	37	1.11	1.42 to 0.81	<.0001*	37	1.09	1.39 to 0.78	<.0001*
IL-10	32	2.28	2.85 to 1.72	<.0001*	32	0.84	1.26 to 0.41	.0003
IL-1β	33	0.01	0.13 to –0.11	.8923	33	–0.01	0.09 to –0.11	.8586
MCP1	38	–0.17	0.03 to –0.38	.0956	37	–0.12	0.09 to –0.32	.2562
MIP1β	38	–0.18	0.01 to –0.36	.0602	38	–0.48	–0.30 to –0.66	<.0001*

CI, Confidence interval; *IL*, interleukin; *MCP*, monocyte chemotactic protein; *MIP*, macrophage inflammatory protein. *Statistical significance ($P \leq .05$).

TABLE E3. Six-hour cytokine levels associated with differences in triiodothyronine levels through 72 hours in untreated patients

Variable	DF	Parameter estimate	SE	*t* value	Pr > |t|	95% CI
6-h R-square		0.4441				
Intercept	1	5.30402	0.16089	32.97	<.0001	4.97496 to 5.63308
IL-10_6	1	–0.06695	0.03475	–1.93	.0639	–0.13802 to 0.00412
High risk	1	–0.28301	0.08473	–3.34	.0023	–0.45630 to –0.10972
IL-1β–6	1	–0.39099	0.13190	–2.96	.0060	–0.66075 to –0.12123
12-h R-square		0.3522				
Intercept	1	5.20233	0.17535	29.67	<.0001	4.84370 to 5.56097
IL-10_6	1	–0.08030	0.03787	–2.12	.0427	–0.15775 to –0.00284
High risk	1	–0.15740	0.09235	–1.70	.0990	–0.34627 to 0.03146
IL-1β–6	1	–0.46652	0.14375	–3.25	.0030	–0.76052 to –0.17252
24-h R-square		0.3229				
Intercept	1	4.94740	0.17787	27.81	<.0001	4.58361 to 5.31119
IL-10_6	1	–0.10474	0.03842	–2.73	.0107	–0.18331 to –0.02617
High risk	1	–0.01538	0.09367	–0.16	.8707	–0.20696 to 0.17620
IL-1β–6	1	–0.46901	0.14582	–3.22	.0032	–0.76724 to –0.17079
72-h R-square		0.1996				
Intercept	1	5.12113	0.37185	13.77	<.0001	4.34997 to 5.89230
IL-10_6	1	–0.08782	0.07566	–1.16	.2582	–0.24474 to 0.06909
High risk	1	–0.08639	0.18143	–0.48	.6387	–0.46264 to 0.28987
IL-1β–6	1	–0.65791	0.28984	–2.27	.0334	–1.25901 to –0.05682

CI, Confidence interval; *DF*, degrees of freedom; *IL*, interleukin; *SE*, standard error.

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TABLE E4. Anatomic diagnoses

Isolated ventricular septal defect
Tetralogy of Fallot
Transposition of the great arteries
Hypoplastic left ventricle
Complete atrioventricular canal defect
Total anomalous pulmonary venous drainage
Other low-risk cardiopulmonary bypass
Other high-risk cardiopulmonary bypass
Superior vena cava to pulmonary anastomosis