

Supplemental Digital Content 5:

Cytokines analyzed as dichotomized variables and incidence of LRI.

All children (n=291) (adjusted for sex and season of sampling)

Univariate model				Trivariate model		Multivariate model	
	IRR	[CI]	p-value		p-value		p-value
IFN- γ HI	1.09	[0.79;1.51]	0.60	IFN- γ	0.10	Overall	0.0096**
IFN- γ MC	0.79	[0.56;1.12]	0.19				
IFN- γ SP	0.80	[0.59;1.09]	0.16				
TNF- α HI	-	-	-	TNF- α	0.014*		
TNF- α MC	-	-	-				
TNF- α SP	0.00	[0.00;0.68]	0.01*				
IL-5 HI	0.99	[0.73;1.35]	0.97	IL-5	0.97		
IL-5 MC	0.99	[0.73;1.35]	0.97				
IL-5 SP	0.96	[0.71;1.30]	0.78				
IL-13 HI	0.88	[0.65;1.19]	0.39	IL-13	0.47		
IL-13 MC	0.80	[0.57;1.13]	0.21				
IL-13 SP	0.98	[0.72;1.33]	0.90				
IL-17 HI	0.99	[0.73;1.34]	0.95	IL-17	0.50		
IL-17 MC	1.21	[0.85;1.72]	0.27				
IL-17 SP	1.18	[0.87;1.60]	0.27				
IL-10 HI	0.76	[0.51;1.14]	0.19	IL-10	0.39		
IL-10 MC	0.78	[0.48;1.28]	0.34				
IL-10 SP	1.02	[0.75;1.40]	0.88				
IL-2 HI	0.66	[0.48;0.90]	0.01*	IL-2	0.005**		
IL-2 MC	0.61	[0.40;0.92]	0.03				
IL-2 SP	1.09	[0.71;1.68]	0.70				

* p<0.05. **p<0.01. IRR: Incidence Risk Ratio

HI: *H. influenzae*, MC: *M. catarrhalis*, SP: *S. pneumoniae*.