

Supplemental Digital Content 8. Table: Risk factors for disease severity in pediatric COVID-19 and MIS-C: multivariate logistic regression analysis

Characteristic	Severe Disease / Count (%)	OR	95% CI	p-value
COVID-19				
Age (stratified)				
< 5 years	81 / 281 (29%)	Ref	Ref	
5-12 years	15 / 31 (48%)	1.17	0.48, 2.79	0.86
> 12 years	33 / 54 (61%)	3.08	1.58, 6.11	0.0054
Positive medical history				
No	54 / 206 (26%)	Ref	Ref	
Yes	74 / 160 (47%)	0.96	0.54, 1.67	0.92
Abnormal neurocognitive development				
No	90 / 292 (31%)	Ref	Ref	
Yes	39 / 74 (53%)	1.82	0.98, 3.35	0.12
History of pulmonary condition				
No	92 / 319 (29%)	Ref	Ref	
Yes	37 / 47 (79%)	7.73	3.47, 18.6	<0.0001
MIS-C				
Age (stratified)				
5-12 years	50 / 116 (43%)	Ref	Ref	
< 5 years	4 / 26 (15%)	0.26	0.07, 0.75	0.064
> 12 years	27 / 47 (57%)	2.01	0.98, 4.24	0.13
SARS-CoV-2 variant phase				
Wild-type	37 / 76 (49%)	Ref	Ref	
Alpha	12 / 26 (46%)	0.92	0.36, 2.34	0.92
Delta	28 / 67 (42%)	1.00	0.49, 1.74	1.00
Omicron	4 / 20 (20%)	0.28	0.07, 0.89	0.097

All variables from Figure 2 from the manuscript that were strongly and moderately associated with disease severity or protective from severe disease with a p-value < 0.1 were re-analysed using a multivariate logistic regression model. The COVID-19 and MIS-C cohort were analysed separately. Abbreviations: OR: Odds ratio, CI: Confidence interval.