

## Supplementary Material

**Supplementary Table 1: Demographic data and delivery outcomes by SARS-CoV-2 infection severity**

Maternal	Asymptomatic N = 64	Mild N = 140	Moderate N = 32	Severe/Critical N = 12	p-value
Maternal Age mean (std)	29.6 (6.2)	32.1 (5.6)	33.3 (5.9)	33.5 (5.7)	0.43
Race					0.096
White	23 (35.9)	59 (42.1)	18 (56.3)	5 (41.7)	
Black	16 (25.0)	11 (7.9)	1 (3.1)	1 (8.3)	
Asian	2 (3.1)	6 (4.3)	0	0	
Other	21 (32.8)	53 (37.9)	12 (37.5)	6 (50.0)	
Unknown	2 (3.1)	11 (7.9)	1 (3.1)	0	
Latinx	27 (42.2)	61 (45.2)	20 (62.5)	7 (58.3)	0.22
Public insurance	38 (59.4)	52 (37.4)	14 (43.8)	5 (41.7)	0.030
Multiple Gestations	1 (1.6)	2 (1.4)	0	1 (8.3)	0.31
Preterm Birth	11 (17.2)	13 (9.3)	5 (15.6)	3 (25.0)	0.16
Nulliparous	27 (42.2)	59 (42.1)	12 (37.5)	5 (41.7)	0.98
Comorbidities					
Asthma	11 (17.2)	15 (10.7)	6 (18.8)	3 (25.0)	0.23
Obesity	34 (53.1)	82 (58.5)	26 (81.3)	11 (91.7)	0.005
Tobacco use	2 (3.1)	17 (12.1)	6 (18.8)	2 (16.7)	0.04
Chronic Hypertension	0	4 (2.9)	2 (6.3)	1 (8.3)	0.10
Gestational age at SARS-CoV-2 diagnosis Mean (std)	35.0 (8.5)	26.8 (9.7)	26.9 (9.2)	28.4 (7.1)	<0.001
Infant	Asymptomatic N = 65	Mild N = 142	Moderate N = 32	Severe/Critical N = 13	
Sex (female)	34 (52.3)	71 (50.0)	18 (56.3)	9 (69.2)	0.59
Cord blood available	64	138	19	10	
Latency time (weeks) med (IQR)	N/A	9.36 (3.57-17.64)	10.07(3.86-18.29)	8.57 (1.86-14.79)	

^Severity according to NIH guidelines<sup>31</sup>

**Supplementary Table 2: IgG and transfer ratio comparisons based on severity and latency**

	<= 90 days				> 90 days			
	Mild	Moderate	Severe/Critical	p-value	Mild	Moderate	Severe/Critical	p-value
Maternal IgG	1.92 (0.76-6.33)	7.80 (0.86-14.10)	20.40 (11.44-31.01)	0.085	0.98 (0.40-2.15)	1.84 (1.48-8.70)	8.28 (8.07-26.26)	<0.001
Transfer Ratio	0.99 (0.35-1.50)	0.89 (0.70-1.12)	0.78 (0.75-0.96)	0.78	1.35 (1.04-1.70)	1.39 (1.29-1.73)	1.70 (1.07-2.27)	0.67
Infant IgG	1.64 (0.46-5.73)	6.48 (0.90-13.89)	11.48 (0.19-16.18)	0.21	1.26 (0.65-3.43)	3.48 (2.20-30.30)	25.48 (18.55-34.66)	0.0038

Kruskal-Wallis ANOVA

**Supplementary Table 3: IgG and transfer ratio comparisons based on fetal sex**

Med (IQR)	All			SARS-CoV-2 Infection			COVID-19 Vaccination		
	Female	Male	p-value	Female	Male	p-value	Female	Male	p-value
Maternal IgG	3.06 (0.99 - 12.79)	3.67 (0.54-14.66)	0.87	1.79 (0.62-6.03)	1.21 (0.39-8.12)	0.49	14.11 (5.83-31.86)	17.97 (9.40-26.47)	0.98
Infant IgG	2.63 (0.54-15-26)	2.24 (0.46-11.32)	0.41	1.73 (0.37-6.63)	1.10 (0.41-4.67)	0.27	22.05 (7.56-36.77)	16.22 (7.76-22.47)	0.33
Transfer Ratio	1.26 (0.68-1.75)	1.00 (0.49-1.56)	0.14	1.18 (0.65-1.67)	1.00 (0.45-1.42)	0.18	1.42 (0.94-2.16)	0.92 (0.51-2.06)	0.41

Wilcoxon rank sum