

Supplementary material

Supplementary Table S1: Frequency of different virus variants for unvaccinated and vaccinated women with singleton or multiple pregnancy.

Virus variant in unvaccinated women	Multiple pregnancies (n=95)	Singleton pregnancies (n=3480)
Wild type	39 (41%)	1425 (41%)
Alpha	19 (20%)	474 (14%)
Delta	18 (19%)	834 (24%)
Omicron	19 (20%)	747 (21%)

Virus variant in vaccinated women	Multiple pregnancies (n=59)	Singleton pregnancies (n= 1550)
Wild type	0 (0%)	4 (0%)
Alpha	0 (0%)	2 (0%)
Delta	9 (15%)	182 (12%)
Omicron	50 (85%)	1362 (88%)

Supplementary Table S2: Dyspnea due to COVID-19 infection and duration of symptomatic phase according to mother.

Symptoms	Multiple pregnancies (n= 165)	Singleton pregnancies (n=5349)	P-value
Dyspnea	38/157 (24%)	1248/5043 (25%)	0.88 ^{chi2}
Duration of symptomatic phase according to mother			
<7 days	51/131 (40%)	1790/4162 (43%)	0.60 ^{chi2}
7-14 days	59/131 (45%)	1693/4162 (41%)	
>14 days	19/131 (15%)	679/4162 (16%)	

chi2, Pearson's chi-squared test

Supplementary Table S3: Multivariate logistic regression analysis results for combined maternal outcome in women with COVID-19 in multiple and singleton pregnancies.

Combined outcome in multiple pregnancies	Level	OR	95% CI	P-value
BMI >30 (before pregnancy)	present	0.85	[0.24; 2.62]	0.78
Gestational age in weeks		1.07	[1.00; 1.14]	0.05
Maternal age >35	present	0.41	[0.12; 1.15]	0.09
Maternal comorbidities	present	0.93	[0.34; 2.46]	0.88
Mode of conception	ART	0.89	[0.30; 2.46]	0.83
Smoking (during pregnancy)	present	0.00	[n/a; 4.10]	0.99

Outcome in singleton pregnancies	Level	OR	95% CI	P-value
BMI >30 (before pregnancy)	present	1.56	[1.26; 1.93]	<0.001
Gestational age in weeks		1.04	[1.03; 1.06]	<0.001
Maternal age >35	present	0.91	[0.74; 1.12]	0.40
Maternal comorbidities	present	0.98	[0.81; 1.19]	0.84
Mode of conception	ART	1.01	[0.60; 1.59]	0.98
Smoking (during pregnancy)	present	0.59	[0.33; 0.97]	0.05

BMI, body mass index; ART: assisted reproductive technology; OR, odds ratio; CI, confidence interval