

Table 3a. SARS-CoV-2 Nucleocapsid IgG in newborn bloodspots of children whose mothers had confirmed COVID-19 during pregnancy

Child Outcome	All HR ¹ (CI)		Female HR ² (CI)		Male HR ² (CI)		Sex interaction p-value	T1 HR ³ (CI)		T2 HR ³ (CI)		T3 HR ³ (CI)		Trimester interaction p-value
Any ND	69	1.11 (0.93-1.33)	25	0.88 (0.63-1.21)	44	1.28 (1.02-1.61)	0.0083	11	2.21 (1.10-4.45)	18	1.57 (0.93-2.65)	40	1.01 (0.83-1.23)	0.2171
ASD	19	1.05 (0.74-1.48)	6	0.59 (0.32-1.10)	13	1.47 (0.92-2.34)	0.0250	0	-	9	1.35 (0.63-2.90)	10	0.91 (0.61-1.36)	0.5387
Speech/Language Delay	63	1.19 (0.99-1.43)	21	0.93 (0.65-1.32)	42	1.37 (1.08-1.73)	0.0120	10	2.33 (1.09-4.98)	16	2.23 (1.20-4.13)	37	1.05 (0.86-1.29)	0.0662
Motor delay	11	0.81 (0.49-1.32)	5	0.57 (0.27-1.22)	6	1.32 (0.63-2.80)	0.0977	2	-	4	1.19 (0.47-3.03)	5	0.57 (0.28-1.16)	0.3505

¹Adjusted by maternal age, maternal pre-pregnancy obesity, child birth season, maternal covid infection trimester, and child sex

²Adjusted by maternal age, maternal pre-pregnancy obesity, child birth season, and maternal covid infection trimester

³Adjusted by maternal age, maternal pre-pregnancy obesity, child birth season, and child sex

sarscov2nucleocapsid- IgG antibodies to SARS2-Covid 19 nucleocapsid protein. This protein is not encoded in the vaccine so antibody is due to Covid-19 infection or cross-reaction with another Coronavirus.

HR=Hazard ratio; CI=Confidence interval; ND=Neurodevelopmental Disorder; ASD=Autism Spectrum Disorder

Table 3b. SARS-CoV-2 Surface IgG PCA in newborn bloodspots of children whose mothers had confirmed COVID-19 during pregnancy

Child Outcome	All HR ¹ (CI)		Female HR ² (CI)		Male HR ² (CI)		Sex interaction p-value	T1 HR ³ (CI)		T2 HR ³ (CI)		T3 HR ³ (CI)		Trimester interaction p-value
Any ND	69	1.05 (0.72-1.53)	25	0.56 (0.27-1.15)	44	1.37 (0.86-2.19)	0.0097	11	2.01 (0.67-5.99)	18	1.27 (0.53-3.04)	40	0.92 (0.56-1.51)	0.7784
ASD	19	0.62 (0.29-1.30)	6	0.07 (0.01-0.99)	13	1.24 (0.44-3.49)	0.0192	0	-	9	0.62 (0.18-2.10)	10	0.64 (0.23-1.75)	0.9729
Speech/Language Delay	63	1.11 (0.75-1.65)	21	0.52 (0.24-1.15)	42	1.45 (0.90-2.35)	0.0089	10	1.77 (0.56-5.60)	16	1.61 (0.63-4.10)	37	0.95 (0.57-1.58)	0.6535
Motor delay	11	1.11 (0.43-2.85)	5	0.43 (0.08-2.28)	6	1.94 (0.66-5.73)	0.0728	2	-	4	10.83 (0.92-128.30)	5	0.20 (0.03-1.56)	0.0549

¹Adjusted by maternal age, maternal pre-pregnancy obesity, child birth season, maternal covid infection trimester, and child sex

²Adjusted by maternal age, maternal pre-pregnancy obesity, child birth season, and maternal covid infection trimester

³Adjusted by maternal age, maternal pre-pregnancy obesity, child birth season, and child sex

cov_surface_pca- Score based on the highly intercorrelated levels of sarscov2s1nt sarscov2s1rbd sarscov2spike calculated by principal components analysis (PCA). Proteins are encoded by the Covid-19 vaccines so antibodies could be due to vaccination or Covid-19 infection.

HR=Hazard ratio; CI=Confidence interval; ND=Neurodevelopmental Disorder; ASD=Autism Spectrum Disorder