

Table 1: Data sources and variables.

Data source	Obstetric or neonatal variable
Medical App Portal (MAP)	Age, pregnant person ethnicity, BMI, gestation at diagnosis of COVID-19, COVID-19 vaccination status, hospitalisation with COVID-19, ICU admission, mode of birth, gestation at birth, diagnosis of preeclampsia, birthweight centile
Perinatal Information Management System (PIMS)	Age, parity, BMI, induction of labour, mode of birth, blood loss at birth, gestation at birth, NICU admission, birth weight centile
Community radiology providers	Additional third trimester ultrasound
Hospital coding	Hospital admission, gestation at birth, birth outcome, mode of birth, induction of labour, birthweight, pre-eclampsia, BMI, ICU admission, venous thromboembolism (VTE)
NZDep2018 online map tool ⁷	Area deprivation based on residential address

Table 2: Ethnicity and deprivation quintiles of our cohort of those diagnosed with COVID-19 in pregnancy and the total 2022 CCDHB birthing population.

	Cohort of people diagnosed with COVID-19 in pregnancy		Total CCDHB birthing population	
	N	%	N	%
Deprivation quintile				
1 Least deprived	144	27.1	930	28.9
2	105	19.7	568	17.7
3	98	18.4	547	17.0
4	69	13.0	640	19.9
5 Most deprived	116	21.8	532	16.5
Prioritised ethnicity				
Māori	97	18.2	504	15.7
Pasifika	81	15.2	327	10.2
Asian	46	8.6	361	11.2
Indian	38	7.1	241	7.5
NZ European	199	37.4	1,291	40.1
Other European	48	9.0	375	11.7
Other	23	4.3	118	3.7
	532		3,217	

Table 3: Pregnancy outcomes for people diagnosed with COVID-19 and total for CCDHB in 2022.

	Cohort of people diagnosed with COVID-19 during pregnancy		Total CCDHB birthing population	
	N	%	n	%
Hypertensive disorders of pregnancy (gestational hypertension and pre-eclampsia)	22	4.3	201	6.2
Caesarean section	152	29.6	1,182	35.3
Postpartum haemorrhage $\geq 1,000\text{mL}$	49	9.5	328	10.2
Induction of labour	126	24.5	852	26.5
Pre-term birth (<37 weeks)	30	5.8	205	6.4
NICU admission	58	11.2 ^a	530	16.5
Total	514		3,217	

^aThere were 520 babies (six sets of twins), so the denominator here is 520.