



Appendix

	Pre-COVID (reference)				Intra-COVID				RR	95% CI
	Crude	95% CI	Age-std	95% CI	Crude	95% CI	Age-std	95% CI		
Sensitivity analysis 1: excluded pregnancies with COVID-19 infections in the intra-COVID cohort (overall: N = 8,365; pre-COVID: N = 4,507; intra-COVID: N = 3,858)										
Overall	9.03%	(8.19%, 9.87%)	8.49%	(7.52%, 9.45%)	10.50%	(9.53%, 11.46%)	10.09%	(8.91%, 11.27%)	1.18*	(1.02, 1.35)
By race and ethnicity										
Asian	14.56%	(12.07%, 17.06%)	12.68%	(9.61%, 15.76%)	14.33%	(11.68%, 16.98%)	13.63%	(9.95%, 17.32%)	0.98	(0.75, 1.30)
Hispanic	11.63%	(9.63%, 13.63%)	11.53%	(9.28%, 13.78%)	14.84%	(12.41%, 17.27%)	14.71%	(11.93%, 17.49%)	1.27*	(1.00, 1.60)
Non-Hispanic Black	6.07%	(2.87%, 9.28%)	5.37%	(2.18%, 8.57%)	8.74%	(4.65%, 12.84%)	9.07%	(4.36%, 13.78%)	1.38	(0.66, 2.88)
Non-Hispanic White	5.78%	(4.73%, 6.83%)	4.78%	(3.65%, 5.91%)	7.50%	(6.16%, 8.83%)	6.84%	(5.08%, 8.60%)	1.34*	(1.03, 1.75)
Other/unknown	9.03%	(6.80%, 11.27%)	9.44%	(6.55%, 12.33%)	8.56%	(6.47%, 10.65%)	8.38%	(5.83%, 10.94%)	0.98	(0.68, 1.42)
Sensitivity analysis 2: excluded pregnancies screened for GDM before 3/1/2020 in the intra-COVID cohort (overall: N = 7,958; pre-COVID: N = 4,507; intra-COVID: N = 3,451)										
Overall	9.03%	(8.19%, 9.87%)	8.49%	(7.52%, 9.45%)	10.72%	(9.69%, 11.75%)	10.21%	(8.96%, 11.47%)	1.19*	(1.03, 1.37)
By race and ethnicity										
Asian	14.56%	(12.07%, 17.06%)	12.68%	(9.61%, 15.76%)	15.37%	(12.43%, 18.31%)	14.20%	(10.00%, 18.39%)	1.05	(0.79, 1.39)
Hispanic	11.63%	(9.63%, 13.63%)	11.53%	(9.28%, 13.78%)	15.52%	(12.93%, 18.10%)	15.32%	(12.35%, 18.29%)	1.30*	(1.00, 1.68)
Non-Hispanic Black	6.07%	(2.87%, 9.28%)	5.37%	(2.18%, 8.57%)	8.54%	(4.26%, 12.81%)	8.59%	(3.79%, 13.38%)	1.3	(0.61, 2.79)
Non-Hispanic White	5.78%	(4.73%, 6.83%)	4.78%	(3.65%, 5.91%)	7.37%	(5.96%, 8.77%)	6.85%	(4.94%, 8.76%)	1.31*	(1.00, 1.73)
Other/unknown	9.03%	(6.80%, 11.27%)	9.44%	(6.55%, 12.33%)	8.33%	(6.16%, 10.50%)	8.18%	(5.50%, 10.85%)	0.95	(0.65, 1.39)
Sensitivity analysis 3: used the conception dates to define the pre- and intra-COVID cohorts (overall: N = 4,227; pre-COVID: N = 2,186; intra-COVID: N = 2,041)										
Overall	8.19%	(7.04%, 9.34%)	7.92%	(6.56%, 9.27%)	10.09%	(8.79%, 11.40%)	8.37%	(7.00%, 9.74%)	1.24*	(1.01, 1.52)
By race and ethnicity										
Asian	12.34%	(9.34%, 15.34%)	12.20%	(8.85%, 15.56%)	14.04%	(10.87%, 17.20%)	12.32%	(9.00%, 15.64%)	1.18	(0.82, 1.69)
Hispanic	10.29%	(7.23%, 13.35%)	9.41%	(5.65%, 13.16%)	14.86%	(11.13%, 18.58%)	12.77%	(7.99%, 17.56%)	1.41	(0.93, 2.16)
Non-Hispanic Black	6.96%	(2.31%, 11.61%)	6.91%	(1.71%, 12.10%)	8.42%	(2.84%, 14.01%)	7.23%	(1.83%, 12.63%)	1.17	(0.41, 3.36)
Non-Hispanic White	5.35%	(3.89%, 6.81%)	3.86%	(2.55%, 5.18%)	6.68%	(4.93%, 8.44%)	6.76%	(5.05%, 8.48%)	1.36	(0.91, 2.02)
Other/unknown	8.60%	(5.50%, 11.70%)	9.28%	(5.20%, 13.36%)	8.17%	(5.32%, 11.02%)	6.71%	(3.78%, 9.65%)	0.94	(0.55, 1.59)

Supplementary Table 1: Sensitivity analyses: crude and age-standardized GDM incidences in the pre- and intra-COVID cohorts.

Abbreviations: age-std, age-standardized; BMI, body mass index; EHR, electronic medical record; CI, confidence interval; COVID, coronavirus disease; GDM, gestational diabetes mellitus; RR, risk ratio.

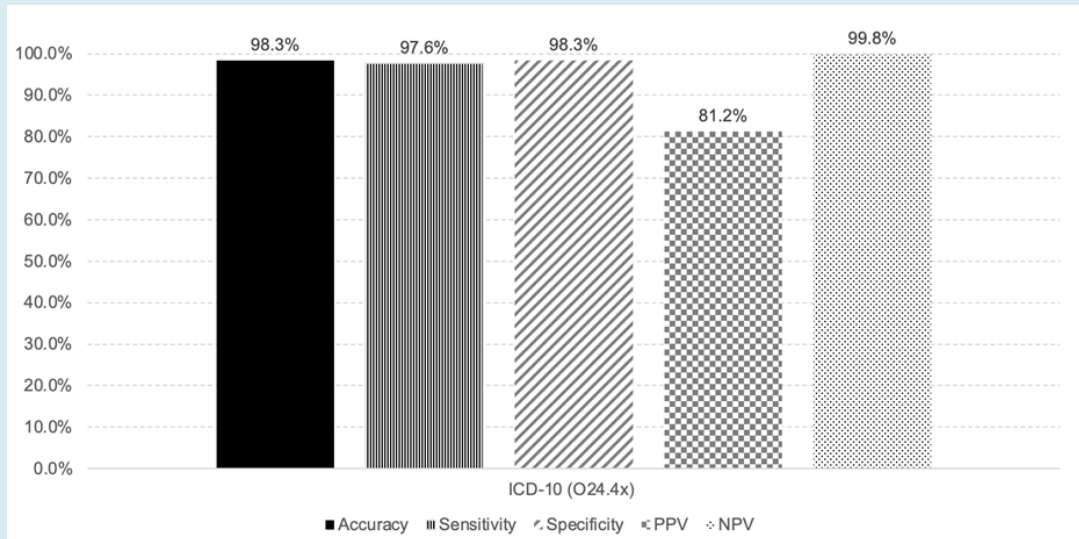
Notes:

- Age-standardized incidences were standardized to the age distribution of females 15-49 years in 2018 (US Census Bureau, Current Population Survey, Annual Social and Economic Supplement, 2018).
- Multivariable models adjusted for maternal age, nulliparity, marital status, pre-pregnancy BMI, gestational weight gain, and

utilization days of prenatal care. In the overall sample, race and ethnicity was also adjusted.

- Poisson regressions (log link) with robust standard errors and a random effect for each pregnant individual were applied to calculate RR and 95% CI.

*P<0.05.



Supplementary Figure 1: Validation analyses of ICD-10 codes against the GDM diagnosis using the plasma glucose values from the GDM screen tests (N = 4,841).

Abbreviations: ICD-10, International Classification of Diseases, Tenth Revision; NPV, negative predictive value; PPV, positive predictive value.

