Supplemental Table 1. Effectiveness of COVID-19 Vaccination During Pregnancy Against Infant SARS-CoV-2 Infection: Cohort Design, unadjusted for patient covariates

	First 2 months of life			Fi	rst 4 months	of life	First 6 months of life		
Infant observation period by predominant SARS-CoV-2 variant, and mother's vaccination status	Positive test N	Crude incidence rate ¹	Crude ² VE (95% CI)	Positive test N	Crude incidence rate ¹	Crude ² VE (95% CI)	Positive test N	Crude incidence rate ¹	Crude ² VE (95% CI)
Delta period									
Unvaccinated during pregnancy	54	5.47	Reference	118	5.10	Reference	190	4.78	Reference
Received ≥2 doses during pregnancy Received only 1 dose during	8	0.75	86 (71, 93)	27	1.43	72 (57, 81)	37	1.56	66 (52, 76)
pregnancy*	0	0.00	no estimate	0	0.00	no estimate	4	1.33	72 (24, 89)
Omicron period									
Unvaccinated during pregnancy	54	16.98	Reference	140	18.32	Reference	302	21.11	Reference
Received ≥2 doses during pregnancy Received only 1 dose during	54	16.30	29 (-4, 51)	175	17.25	21 (1, 37)	320	16.34	22 (9, 33)
pregnancy*	1	7.87	51 (-72, 93)	8	17.79	24 (-34, 63)	23	22.73	-1 (-34, 33)

¹ Rate per 100 person-years

VE=Vaccine effectiveness

Calendar day was used as the underlying scale to ensure that infants of vaccinated and unvaccinated mothers are compared on the same calendar days.

² Crude VE is adjusted for calendar time only.

 $[\]boldsymbol{*}$ Most 1 dose only vaccines were received during the third trimester

Supplemental Table 2. Effectiveness of COVID-19 Vaccination During Pregnancy Against Infant SARS-CoV-2 Infection by Infant Age at Testing and by Virus Variant: Test Negative Design

	First 2 months of life			F	First 4 month	s of life	First 6 months of life		
Infant observation period by predominant SARS-CoV-2 variant, and mother's vaccination status	Positive test N	Negative test N	Adjusted ² VE (95% CI)	Positive test N	Negative test N	Adjusted ² VE (95% CI)	Positive test N	Negative test N	Adjusted ² VE (95% CI)
Delta period									
Unvaccinated during pregnancy	54	646	Reference	118	1193	Reference	190	2101	Reference
Received ≥2 doses during pregnancy	8	614	95 (76, 99)	27	1056	70 (52, 82)	37	1405	61 (42, 74)
Received only 1 dose during pregnancy*	0	60	no estimate	0	109	no estimate	4	217	76 (31, 92)
Omicron period									
Unvaccinated during pregnancy	54	273	Reference	140	464	Reference	302	792	Reference
Received ≥2 doses during pregnancy	54	328	43 (-4, 69)	175	714	36 (11, 55)	320	1250	41 (25, 53)
Received only 1 dose during pregnancy*	1	10	-27 (-91, 84)	8	30	36 (-50, 80)	23	63	16 (-35, 55)

¹ Rate per 100 person-years
² Adjusted for mother's age, race/ethnicity, NDI quartile, insurance payor, KPNC facility, pre-pregnancy BMI, diabetes, hypertension, parity, and child age.
*Most 1 does only vaccines were received during the third trimester

VE= Vaccine effectiveness.

Supplemental Table 3. Effectiveness of COVID-19 Vaccination During Pregnancy Against Infant SARS-CoV-2 Infection by Infant Age at Testing and by Virus Variant: Test Negative Design, unadjusted for any patient covariates

	First 2 months of life			First 4 months of life			First 6 months of life		
Infant observation period by predominant SARS-CoV-2 variant, and mother's vaccination status	Positive test N	Negative test N	Crude ² VE (95% CI)	Positive test N	Negative test N	Crude ² VE (95% CI)	Positive test N	Negative test N	Crude ² VE (95% CI)
Delta period									
Unvaccinated during pregnancy	54	646	Reference	118	1193	Reference	190	2101	Reference
Received ≥2 doses during pregnancy	8	614	86 (70, 93)	27	1056	73 (59, 83)	37	1405	68 (54, 78)
Received only 1 dose during pregnancy*	0	60	no estimate	0	109	no estimate	4	217	80 (46, 93)
Omicron period									
Unvaccinated during pregnancy	54	273	Reference	140	464	Reference	302	792	Reference
Received ≥2 doses during pregnancy	54	328	24 (-16, 51)	175	714	24 (-1, 42)	320	1250	33 (25, 40)
Received only 1 dose during pregnancy*	1	10	-12 (-94, 92)	8	30	7 (-55, 61)	23	63	22 (-1, 41)

Rate per 100 person-years
 Unadjusted for patient covariates.
 * Most 1 dose only vaccines were received during the third trimester

VE=Vaccine effectiveness

Supplemental Table 4. Effectiveness of COVID-19 Vaccination Before and During Pregnancy Against Infant SARS-CoV-2 Infection. Analysis Includes Only Infants Whose Mothers had Some Vaccine Doses Prior to Pregnancy onset and Some During Pregnancy: Cohort Design

	First 2 months of life			First 4 months of life			First 6 months of life		
Infant observation period by predominant SARS-CoV-2 variant, and mother's vaccination status	Positive test N	Crude incidence rate ¹	Adjusted ² VE (95% CI)	Positive test N	Crude incidence rate ¹	Adjusted ² VE (95% CI)	Positive test N	Crude incidence rate ¹	Adjusted ² VE (95% CI)
Omicron period Unvaccinated before and during pregnancy	54	16.98	Reference	140	18.32	Reference	302	21.11	Reference
1 dose before, 1 dose during pregnancy	6	9.86	46 (-23, 77)	18	12.59	16 (-28, 50)	26	12.95	3 (-32, 36)
1 dose before, 2+ doses during pregnancy	1	1.59	89 (25, 98)	4	3.14	73 (29, 90)	9	5.74	48 (-1, 74)
2 doses before, 1 dose during pregnancy	29	5.34	45 (1, 69)	54	6.45	30 (-4, 53)	62	6.79	23 (-8, 45)

Calendar day was used as the underlying scale to ensure that infants of vaccinated and unvaccinated mothers are compared on the same calendar days.

¹ Rate per 100 person-years ² Adjusted for mother's age, race/ethnicity, NDI quartile, insurance payor, KPNC facility, pre-pregnancy BMI, diabetes, hypertension, parity, and child age. VE= Vaccine effectiveness.