

1 **Supplement**

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3 *Figure S1. Flow diagram of cohort construction among 42,940 pregnancies with live births with pregnancy episode start from May 17, 2020, to February 15, 2021,*
4 *from 8 Vaccine Safety Datalink sites*

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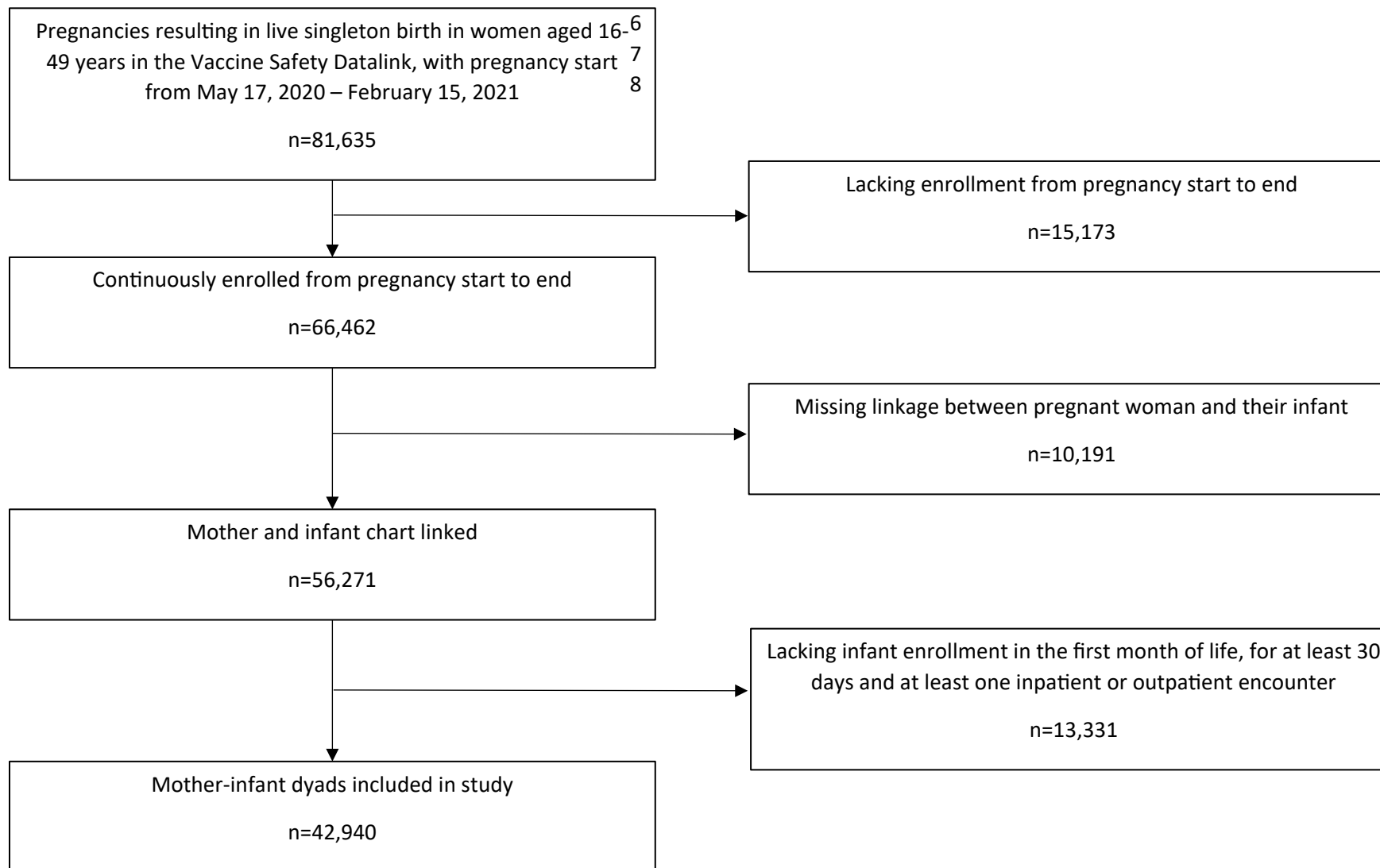


Table S1. Association between COVID-19 vaccination during the second or third trimester of pregnancy, excluding those vaccinated within six weeks postpartum while breastfeeding, and infant infectious outcomes from birth to six months of life among 35,828 pregnancies with live births with pregnancy episode start from May 17, 2020, to February 15, 2021, from 7 Vaccine Safety Datalink sites

Infectious Outcome	COVID-19 vaccine exposed * (n = 14,693)		COVID-19 vaccine unexposed † (n = 21,135)		Incidence rate ratio	
	Events	IR per 6-months x 10 ⁻⁴ (95% CI) ‡	Events	IR per 6-months x 10 ⁻⁴ (95% CI) ‡	crude IRR (95% CI)	adjusted IRR (95% CI) ‡
Non-targeted respiratory infections	536	330 (310, 370) §	810	400 (380, 430)	0.95 (0.85, 1.06)	0.83 (0.75, 0.93)
RSV	201	120 (100, 130)	309	160 (140, 180)	0.94 (0.78, 1.12)	0.73 (0.61, 0.88)
Influenza	15	10 (6, 17)	24	11 (8, 17)	0.90 (0.47, 1.71)	0.93 (0.49, 1.76)
Bronchiolitis	291	190 (170, 210)	438	220 (200, 240)	0.96 (0.82, 1.11)	0.87 (0.75, 1.01)
Bacterial pneumonia	40	26 (19, 36)	59	27 (21, 35)	0.98 (0.65, 1.46)	0.99 (0.66, 1.49)
Other lower respiratory	5	5 (3, 11)	6	3 (1, 7)	1.20 (0.37, 3.93)	1.70 (0.61, 4.73)
Bloodstream infections	68	50 (40, 63)	109	50 (42, 61)	0.90 (0.66, 1.21)	1.00 (0.74, 1.34)
Sepsis and bacterial	63	46 (36, 58)	98	45 (37, 56)	0.92 (0.67, 1.27)	1.00 (0.74, 1.37)
Other bloodstream	5	4 (2, 9)	12	5 (3, 10)	0.60 (0.21, 1.70)	0.83 (0.31, 2.18)
Meningitis	6	3 (1, 7)	14	6 (3, 10)	0.62 (0.24, 1.60)	0.52 (0.17, 1.59)
Bacterial meningitis	4	2 (1, 6)	10	4 (2, 8)	0.58 (0.18, 1.83)	0.48 (0.12, 1.88)
Other meningitis	2	1 (0, 5)	4	2 (1, 5)	0.72 (0.13, 3.93)	0.63 (0.094, 4.20)

Abbreviations: COVID-19, coronavirus disease 2019; IR, incidence rate; CI, confidence interval; IRR, incidence rate ratio; RSV, respiratory syncytial virus

* Vaccinated during the second and third trimesters of pregnancy; women from one site excluded due to lack of breastfeeding data

† Vaccinated pre-pregnancy (n=486), in the first trimester of pregnancy (n=1,872), post-pregnancy (n=12,157), and unvaccinated (n=8,506) for COVID-19, excluding 6,505 vaccinated in the postpartum period while breastfeeding; 607 women from one site excluded due to lack of breastfeeding data

‡ Inverse probability of treatment weighting; incidence rates are presented per six months of follow-up multiplied by 10⁻⁴ given the rarity of some outcomes

§ Bold indicates significant difference between COVID-19 vaccine exposed and COVID-19 vaccine unexposed groups

Table S2. Association between COVID-19 vaccination during the second or third trimester of pregnancy, excluding those vaccinated during the first trimester of pregnancy, and infant infectious outcomes from birth to six months of life among 40,621 pregnancies with live births with pregnancy episode start from May 17, 2020, to February 15, 2021, from 8 Vaccine Safety Datalink sites

Infectious Outcome	COVID-19 vaccine exposed * (n = 14,762)		COVID-19 vaccine unexposed † (n = 25,859)		Incidence rate ratio	
	Events	IR per 6-months x 10 ⁻⁴ (95% CI) ‡	Events	IR per 6-months x 10 ⁻⁴ (95% CI) ‡	crude IRR (95% CI)	adjusted IRR (95% CI) ‡
Non-targeted respiratory infections	545	320 (290, 350) §	940	380 (360, 410)	1.02 (0.91, 1.13)	0.84 (0.75, 0.94)
RSV	208	110 (100, 130)	356	150 (130, 160)	1.02 (0.86, 1.21)	0.75 (0.63, 0.90)
Influenza	15	8 (4, 14)	27	11 (7, 15)	0.97 (0.52, 1.83)	0.72 (0.36, 1.44)
Bronchiolitis	293	180 (160, 200)	508	200 (190, 220)	1.01 (0.88, 1.17)	0.88 (0.76, 1.02)
Bacterial pneumonia	41	25 (18, 34)	70	27 (22, 35)	1.02 (0.70, 1.51)	0.91 (0.61, 1.35)
Other lower respiratory	5	6 (3, 12)	8	2 (1, 5)	1.09 (0.36, 3.35)	2.48 (0.90, 6.85)
Bloodstream infections	68	48 (38, 61)	128	49 (41, 59)	0.93 (0.69, 1.25)	0.98 (0.74, 1.31)
Sepsis and bacterial	63	44 (35, 56)	116	45 (37, 54)	0.95 (0.70, 1.29)	0.99 (0.73, 1.33)
Other bloodstream	5	4 (2, 9)	12	4 (2, 8)	0.73 (0.26, 2.07)	0.96 (0.36, 2.57)
Meningitis	6	3 (1, 7)	18	6 (4, 10)	0.58 (0.23, 1.47)	0.48 (0.17, 1.38)
Bacterial meningitis	4	2 (1, 6)	11	3 (2, 7)	0.64 (0.20, 2.00)	0.53 (0.13, 2.05)
Other meningitis	2	1 (0, 5)	7	3 (1, 6)	0.50 (0.10, 2.41)	0.42 (0.080, 2.24)

Abbreviations: COVID-19, coronavirus disease 2019; IR, incidence rate; CI, confidence interval; IRR, incidence rate ratio; RSV, respiratory syncytial virus

* Vaccinated during the second and third trimesters of pregnancy; women from one site excluded due to lack of breastfeeding data

† Vaccinated pre-pregnancy (n=231), post-pregnancy (n=16,955), and unvaccinated (n=8,865) for COVID-19, excluding 2,319 women vaccinated in the first trimester of pregnancy

‡ Inverse probability of treatment weighting; incidence rates are presented per six months of follow-up multiplied by 10⁻⁴ given the rarity of some outcomes

§ Bold indicates significant difference between COVID-19 vaccine exposed and COVID-19 vaccine unexposed groups