

Table 3. Up-To-Date Vaccinations at 24 Months of Age in Children Born to Women With (n = 1,275) Versus Without (n = 520,831) Schizophrenia, Adjusted for Sociodemographic, Maternal Health, and Child Health Covariate Blocks, Individually and Together

Variable	Value ^a	Rate/100 PY	Unadjusted HR (95% CI)	Adjusted HR 1 (95% CI) (Sociodemographics Only) ^b	Adjusted HR 2 (95% CI) (Maternal Health Characteristics Only) ^b	Adjusted HR 3 (95% CI) (Child Characteristics Only) ^b	Fully Adjusted HR (95% CI) ^b
Up-to-Date Vaccinations at 24 Months							
No maternal schizophrenia	239,531 (46.0)	25.9	1.00 (referent)	1.00 (referent)	1.00 (referent)	1.00 (referent)	1.00 (referent)
Maternal schizophrenia	510 (40.0)	22.6	0.86 (0.78–0.94)	0.89 (0.81–0.98)	0.94 (0.86–1.03)	0.88 (0.80–0.96)	0.95 (0.87–1.04)
Sociodemographic Characteristics							
Maternal age at delivery, mean (SD), y	35.0 (5.3)		1.02 (1.02–1.02)	1.02 (1.02–1.02)			1.02 (1.02–1.02)
Parity							
Multiparous	128,976 (44.0)	24.5	1.00 (referent)	1.00 (referent)			1.00 (referent)
Primiparous	111,065 (48.5)	27.6	1.19 (1.18–1.20)	1.26 (1.25–1.27)			1.27 (1.25–1.28)
Income							
Q1 (lowest)	46,858 (40.2)	22.3	1.00 (referent)	1.00 (referent)			1.00 (referent)
Q2	47,198 (45.2)	25.4	1.17 (1.15–1.18)	1.14 (1.12–1.15)			1.13 (1.12–1.15)
Q3	49,528 (46.7)	26.3	1.21 (1.20–1.23)	1.17 (1.16–1.19)			1.17 (1.15–1.18)
Q4	53,826 (49.4)	28.0	1.31 (1.30–1.33)	1.26 (1.24–1.28)			1.25 (1.24–1.27)
Q5	42,631 (49.6)	28.1	1.32 (1.30–1.34)	1.26 (1.25–1.28)			1.25 (1.24–1.27)
Region of residence							
Urban	223,830 (47.5)	26.9	1.00 (referent)	1.00 (referent)			1.00 (referent)
Rural	16,211 (31.6)	17.1	0.58 (0.57–0.59)	0.63 (0.62–0.65)			0.64 (0.63–0.65)
Immigrant status							
Non-migrant/long-term resident	167,020 (44.7)	25.1	1.00 (referent)	1.00 (referent)			1.00 (referent)
Non-refugee immigrant	64,777 (49.7)	28.3	1.18 (1.17–1.19)	1.13 (1.12–1.14)			1.12 (1.11–1.13)
Refugee	8,244 (44.5)	25.0	1.00 (0.97–1.02)	0.99 (0.97–1.02)			0.99 (0.97–1.01)
Maternal Health							
Unstable chronic medical condition							
No	217,895 (45.8)	25.8	1.00 (referent)		1.00 (referent)		1.00 (referent)
Yes	22,146 (47.3)	26.7	1.05 (1.03–1.06)		1.05 (1.03–1.06)		1.03 (1.01–1.04)
Mood/anxiety disorder							
No	206,973 (46.0)	25.9	1.00 (referent)		1.00 (referent)		1.00 (referent)
Yes	33,068 (45.6)	25.6	0.98 (0.97–0.99)		1.00 (0.99–1.01)		1.01 (0.99–1.02)
Alcohol or substance use disorder							
No	238,527 (46.2)	26.0	1.00 (referent)		1.00 (referent)		1.00 (referent)
Yes	1,514 (27.9)	15.2	0.54 (0.51–0.56)		0.55 (0.53–0.58)		0.68 (0.64–0.71)
Other non-psychotic mental disorder							
No	238,927 (46.0)	25.9	1.00 (referent)		1.00 (referent)		1.00 (referent)
Yes	1,114 (37.1)	20.6	0.76 (0.72–0.81)		0.86 (0.81–0.92)		0.94 (0.88–1.00)
Admission 2 y pre-pregnancy							
No	239,192 (46.0)	25.9	1.00 (referent)		1.00 (referent)		1.00 (referent)
Yes	849 (34.4)	19.1	0.69 (0.65–0.74)		0.84 (0.78–0.90)		0.92 (0.85–0.99)
Severe pregnancy complications ^c							
No	207,969 (46.0)	25.9	1.00 (referent)		1.00 (referent)		1.00 (referent)
Yes	32,072 (45.6)	25.7	1.00 (0.99–1.01)		1.00 (0.98–1.01)		0.99 (0.98–1.01)
Cesarean section							
No	169,502 (45.6)	25.6	1.00 (referent)		1.00 (referent)		1.00 (referent)
Yes	70,539 (46.9)	26.4	1.04 (1.03–1.05)		1.04 (1.03–1.05)		1.00 (0.99–1.01)
Child Characteristics							
Baby's sex							
Male	123,245 (46.0)	25.9	1.00 (referent)			1.00 (referent)	1.00 (referent)
Female	116,796 (45.9)	25.8	1.00 (0.99–1.01)			1.00 (1.00–1.01)	1.00 (1.00–1.01)
Preterm birth							
37 weeks' gestation or later	222,127 (46.2)	25.9	1.00 (referent)			1.00 (referent)	1.00 (referent)
< 37 weeks' gestation	17,914 (43.4)	24.9	0.96 (0.94–0.97)			0.98 (0.96–1.00)	0.96 (0.94–0.98)
NICU							
No	210,743 (46.3)	26.0	1.00 (referent)			1.00 (referent)	1.00 (referent)
Yes	29,298 (43.9)	24.9	0.95 (0.94–0.96)			0.96 (0.95–0.98)	0.95 (0.94–0.96)
Discharged to social services at birth							
No	239,791 (46.0)	25.9	1.00 (referent)			1.00 (referent)	1.00 (referent)
Yes	250 (23.3)	13.8	0.53 (0.46–0.60)			0.54 (0.47–0.61)	0.75 (0.66–0.86)

^aUnless otherwise noted, values are shown as n (%) with the outcome in question; for example, for the outcome Multiparous, 128,976 represents 44.0% of the 293,136 children of multiparous mothers (710 with maternal schizophrenia and 292,426 with no maternal schizophrenia).

^bIncluding maternal schizophrenia in the model.

^cSevere pregnancy complications comprise pre-eclampsia, eclampsia, venous thromboembolism, severe obstetric morbidity (placental abruption, placental infarction, obstetric embolism, septic shock, uterine rupture), or systemic maternal complications in pregnancy or postpartum (cardiomyopathy, complications of anesthesia, acute renal failure, myocardial infarction/pulmonary edema, cerebrovascular disease, acute respiratory distress syndrome, disseminated intravascular coagulation, status epilepticus, hysterectomy).

Abbreviations: HR = hazard ratio, NICU = neonatal intensive care unit, PY = person-years, Q = quintile.