

Appendix 1. International Classification of Diseases, 10th Revision, Codes for Comorbid Conditions	
Pregnancy-related conditions	ICD-10-CM
Gestational diabetes mellitus	O24.4*, O24.9*
Hypertensive disorders of pregnancy	O13.*, O14.*, O15.*, O16.*
Selected Comorbidities	
Cancer	C00.*, C01, C02.*, C03.*, C04.*, C05.*, C06.*, C07, C08.*, C09.*, C10.*, C11.*, C12, C13.*, C14.*, C15.*, C16.*, C17.*, C18.*, C19, C20, C21.*, C22.*, C23, C24.*, C25.*, C26.*, C30.*, C31.*, C32.*, C33, C34.*, C37, C38.*, C39.*, C40.*, C42.*, C43.*, C45.*, C46.*, C47.*, C48.*, C49.*, C4A.*, C50.*, C51.*, C52, C53.*, C54.*, C55, C56.*, C57.*, C58, C64.*, C65.*, C66.*, C67.*, C68.*, C69.*, C70.*, C71.*, C72.*, C73, C74.*, C75.*, C76.*, C77.*, C78.*, C79.*, C7A.*, C7B.*, C80.*, C81.*, C82.*, C83.*, C84.*, C85.*, C86.*, C88.*, C90.*, C91.*, C92.*, C93.*, C94.*, C95.*, C96.*, D03.*, D45 (excluding in remission codes C91.X1-C95.X1)
Cystic fibrosis and other lung disease	E84.*, J84.*
Diabetes mellitus	E10.*, E11.*
Hypertension and other cardiac disease	A52.03, I05.*, I06.*, I07.*, I08.*, I09.1, I09.1, I09.89, I21.*, I22.*, I25.*, I27.0, I27.2*, I27.83 I34.*, I36.*, I37.*, I38, I39, I42, I43, I50.*, O10.*, Q20.*, Q21.*, Q22.*, Q23.*, Q24.*, Q25.*, Q26.2, Q26.3, Q26.4, O90.3, Z87.74, Z95.2, Z95.3, Z95.4
Immunocompromised	B20, D80, D81, D82, D83, D84, D89, O98.7*, T45.1X1, Z21, Z48.2*, *Z51.0, Z94.*, Z94.8*, Z94.9
Infections	A32.*, A92.5, B00.0*, B06.*, B25.*, B01.*, B34.3, B58.*, O98.1*
Medically attended COVID-19 infection	U07.1, U07.2, Z86.16, J12.82, M35.81
Liver disease	I85.*, K72.1*, K72.9*, K73.*, K74.*, K75.4, K75.81, K76.0, K76.6, K76.89, K76.89, K76.9, Z94.4

Denoble AE, Vazquez-Benitez G, Sheth SS, Ackerman-Banks CM, DeSilva MB, Zhu J, et al. Coronavirus disease 2019 (COVID-19) vaccination and stillbirth in the Vaccine Safety Datalink. *Obstet Gynecol* 2024;144.

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Obesity ^a	E66.0*, E66.1, E66.2, E66.8, E66.9, Z68.3*, Z68.4*, Z68.54
Renal disease	N18.3*, N18.4, N18.5, N18.6, N18.9, N19, Z49.0*, Z49.3*, Z91.15, Z99.2
Seizures / epilepsy	G40.*
Sickle cell disease	D57.0*, D57.1, D57.2*, D57.4*
Systemic lupus erythematosus	M32.*, D68.61, D68.312, D68.62
Risk behaviors	
Alcohol	F10.*, O99.31*, K70.*
Smoking	F17.*, Z71.6, Z72.0, Z87.891, O99.33*
Drug use or abuse (cocaine, opioids, sedatives, hypnotics or anxiolytics, stimulants)	F11.*, F13.*, F14.*, F15.*, O99.32*

^aObesity was defined as the presence of an ICD-10-CM diagnosis code for obesity or body mass index ≥ 30 kg/m² in the 6 months prior to conception, or in the first trimester when pre-conception data was not available.

^b Tobacco use from 3 months prior to stillbirth or index date was captured from EHR data and supplemented by diagnosis codes

Appendix 2. Adjudicated Pregnancy Outcomes for Intrauterine Fetal Demise Captured by Dynamic Pregnancy Algorithm in the Vaccine Safety Datalink Occurring From January 13, 2021, to February 28, 2022	
Outcome	N (%)
Composite of fetal or neonatal loss	315 (67.7)
Stillbirth ¹	278 (59.8)
Intrapartum demise	13 (2.8)
Neonatal demise	24 (5.2)
Other pregnancy outcomes	150 (32.3)
Live birth	31 (6.7)
Ongoing pregnancy at time of identification	4 (0.9)
Spontaneous abortion (pregnancy loss <20 weeks' gestation)	54 (11.6)
Therapeutic abortion	60 (12.9)
Historic stillbirth	1 (<1.0)

¹Two stillbirths were excluded from the analysis because they were unable to be matched to live births.