

**Appendix 1. International Classification of Diseases, 10<sup>th</sup> 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 <sup>a</sup>	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*

<sup>a</sup>Obesity was defined as the presence of an ICD-10-CM diagnosis code for obesity or body mass index  $\geq 30$  kg/m<sup>2</sup> in the 6 months prior to conception, or in the first trimester when pre-conception data was not available.

<sup>b</sup> 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**

<b>Outcome</b>	<b>N (%)</b>
Composite of fetal or neonatal loss	315 (67.7)
Stillbirth <sup>1</sup>	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)

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