

Apparent risks of postural orthostatic tachycardia syndrome diagnoses after COVID-19 vaccination and SARS-Cov-2 Infection

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Supplemental Table 1. First vaccination dose versus second vaccination dose with first vaccination dose as primary exposure.

Diagnosis	First Dose				Second Dose			
	Total (N)	Before (N)	After (N)	Odds (CI)	Total (N)	Before (N)	After (N)	Odds (CI)
Dysautonomia	68	21	47	2.24 (1.34-3.86)	68	30	38	1.27 (0.79-2.09)
POTS	1264	501	763	1.52 (1.36-1.71)	1184	481	703	1.46 (1.30-1.64)
Mast Cell Syndrome	64	27	37	1.37 (0.83-2.37)	49	22	27	1.23 (0.69-2.27)
Ehlers Danlos	40	19	21	1.11 (0.60-2.08)	35	14	21	1.5 (0.75-3.38)
Fatigue	3090	1377	1713	1.24 (1.16-1.34)	2857	1237	1620	1.31 (1.22-1.41)
Hypertension	4638	2080	2558	1.23 (1.16-1.3)	4200	1875	2325	1.24 (1.17-1.32)
Diabetes	1269	600	669	1.12 (1.00-1.25)	1141	550	591	1.07 (0.96-1.21)
Hyperlipidemia	4373	1952	2421	1.24 (1.17-1.32)	4003	1771	2232	1.26 (1.18-1.34)
Myocarditis	25	7	18	2.57 (1.08-7.33)	21	7	14	2 (0.91-6.00)
Depression	1737	795	942	1.18 (1.08-1.30)	1594	726	868	1.2 (1.08-1.32)
Anxiety	2929	1316	1613	1.23 (1.14-1.32)	2659	1182	1477	1.25 (1.16-1.35)
Eczema	1799	844	955	1.13 (1.03-1.24)	1586	741	845	1.14 (1.03-1.26)
Cellulitis	1799	844	955	1.13 (1.03-1.24)	1586	741	845	1.14 (1.03-1.26)
Urinary Tract Infection	2038	879	1159	1.32 (1.21-1.44)	1914	828	1086	1.31 (1.20-1.44)
Iron Deficiency Anemia	1688	757	931	1.23 (1.12-1.35)	1566	700	866	1.24 (1.12-1.37)
GERD	2795	1308	1487	1.14 (1.06-1.23)	2562	1161	1401	1.21 (1.12-1.30)
Osteoarthritis	178	74	104	1.41 (1.05-1.92)	179	65	114	1.75 (1.29-2.38)
Lumbago	2845	1256	1589	1.27 (1.18-1.36)	2678	1134	1544	1.36 (1.26-1.47)
Edema	1196	533	663	1.24 (1.11-1.40)	1118	470	648	1.38 (1.23-1.55)
Headache	2292	1096	1196	1.09 (1.01-1.18)	2043	1011	1032	1.02 (0.94-1.11)
Total POTS Group	4526	1945	2581	1.33 (1.25-1.41)	4193	1784	2409	1.35 (1.27-1.44)
Total CPC Group	31576	14334	17242	1.2 (1.18-1.23)	28829	12955	15874	1.23 (1.20-1.25)

POTS: Postural Orthostatic Tachycardia Syndrome; GERD: Gastroesophageal Reflux Disease; CPC: Common Primary Care. Odds of post-exposure diagnosis were estimated using 1-sample proportions testing with continuity correction.

Supplemental Table 2. ICD-9 and ICD-10 codes used to define diagnoses.

Diagnosis	ICD-9	ICD-10
Myocarditis	032.82, 036.43, 074.23, 130.3, 391.2, 398.0, 422.0, 422, 422.9, 422.90, 422.91, 422.93, 422.99, 429.0	
Dysautonomia	337.9	G90.1
POTS	427.89	I49.8
Mast Cell Disorders		D89.4
Urinary Tract Infection	595.0, 599.0	
Dizziness	780.4	R42
Lumbago	724.1, 724.2, 724.20, 724.5	
Fatigue	780.79	R53.83
Edema	782.3, 782.30	
Hyperlipidemia	272.2, 272.4,	E78.2, E78.4, E78.5
Hypertension	401.*, 402.*, 403.*, 404.*, 405.*	I10.*, I11.*, I12.*, I13.*, I15.*
Iron Deficiency Anemia	280, 280.0, 280.1, 280.8, 280.9	
Anxiety	293.84, 300, 300.0, 300.00, 300.02, 300.09, 300.10, 300.2, 300.5, 300.89, 300.9, 313.0, 313.1, 313.21, 313.3, 313.82, 313.83	
Depression	296.2, 296.20, 296.21, 296.22, 296.23, 296.24, 296.25, 296.26, 296.3, 296.30, 296.31, 296.32, 296.33, 296.34, 296.35, 296.36, 311, 311.0	
GERD	530.1, 530.10, 530.12, 530.19, 530.81	
Cellulitis	681, 681.0, 681.00, 681.01, 681.02, 681.1, 681.10, 681.11, 681.9, 682, 682.0, 682.1, 682.2, 682.3, 682.4, 682.5, 682.6, 682.7, 682.8, 682.9	
Eczema	691, 691.8, 692, 692.0, 692.1, 692.2, 692.3, 692.4, 692.8, 692.81, 692.83, 692.84, 692.89, 692.9, 693, 693.0, 693.8, 693.9, E866.7	
Diabetes Mellitus	250, 250.00, 250.0, 250.1, 250.2, 250.3, 250.4, 250.5, 250.6, 250.7, 250.8, 250.9,	E10.0, E10.1, E10.2, E10.3, E10.4, E10.5, E10.6, E10.7, E10.8, E10.9, E11.0, E11.1, E11.2, E11.3, E11.4, E11.5, E11.6, E11.7, E11.8, E11.9, E12.0, E12.1, E12.2, E12.3, E12.4, E12.5, E12.6, E12.7, E12.8, E12.9, E13.0, E13.1, E13.2, E13.3, E13.4, E13.5, E13.6, E13.7, E13.8, E13.9, E14.0, E14.1, E14.2, E14.3, E14.4, E14.5, E14.6, E14.7, E14.8, E14.9
Ehlers Danlos Syndrome	756.83	Q79.60
Headache	339, 339.05, 339.09, 339.1, 339.10, 339.11, 339.12, 339.2, 339.20, 339.21, 339.22, 339.3, 339.4, 339.41, 339.42, 339.43, 339.44, 339.8, 339.81, 339.82, 339.83, 339.84, 339.85, 339.89, 784.0	

POTS: Postural Orthostatic Tachycardia Syndrome; GERD: Gastroesophageal Reflux Disease.