

Table S2. Symptoms after the first and second doses of COVID-19 vaccines by vaccine type (per 100,000 doses)

Adverse events (vaccination dose)	AstraZeneca (n = 20,342,226)	Pfizer-BioNTech (n = 44,577,886)	Moderna (n = 12,010,627)	Janssen (n = 1,486,063)
Headache	145	77	158	192
Myalgia	152	61	179	135
Dizziness	91	55	72	102
Chest pain	17	63	74	38
Nausea	66	41	69	63
Fever	68	21	92	60
Allergic reaction	60	32	46	66
Chills	60	21	74	51
Pain, rash, swelling at the injection site	33	16	51	29
Vomiting	28	18	27	22
Abdominal pain	20	15	22	22
Diarrhea	14	12	15	20
Cellulitis	9	3	21	6
Arthritis	10	4	5	9
Lymphadenitis	1	6	10	2
Localized reactions	6	2	6	4
Abnormal uterine bleeding	<1	3	4	1
Acute palsy	4	2	1	3
Immune thrombocytopenia	5	1	1	6
Anaphylactoid reaction	1	1	1	1
Encephalopathy	2	1	<1	1
Vision loss	2	<1	<1	2
Anaphylaxis	<1	1	1	2
Conversion, seizure	1	1	<1	1
Abscess	1	<1	1	<1
Guillain-Barre syndrome	1	<1	<1	1
Spinal disorder	<1	<1	<1	<1
Osteomyelitis, osteitis	<1	<1	<1	<1
Disseminated BCG infection	<1	<1	<1	0
Vaccine-associated enhanced disease	3	2	1	3
Acute cardiovascular injury	2	2	1	1
Acute respiratory diseases syndrome	1	1	1	1
Coagulation disorder	1	<1	<1	1
Thrombocytopenia	1	<1	<1	1
Erythema multiforme	<1	<1	<1	<1
Acute kidney injury	<1	<1	<1	<1
Thrombosis with thrombocytopenia	1	<1	<1	<1
Acute liver injury	<1	<1	<1	<1
Single organ cutaneous vasculitis	<1	<1	<1	<1
Anosmia	<1	<1	<1	<1
Capillary leak syndrome	<1	<1	<1	0
Multisystem inflammation syndrome with children and adult	<1	<1	<1	<1
Chilblains	<1	<1	<1	<1
Acute aseptic arthritis	<1	<1	<1	0
Meningoencephalitis	<1	<1	<1	<1
Acute disseminated encephalomyelitis	<1	<1	<1	<1

COVID-19, coronavirus disease 2019; BCG, Bacille Calmette-Guérin.