



ID, sex, *n* doses

- ◇ VAERS ID[‡]
- ◇ Female
- ◇ Male
- ◇ Unknown (sex)
- ◇ *n* doses (*u*=unk.)

***n* per manufacturer**

Janssen	1909
Moderna	9260
Novavax	15
Pfizer	29360
Unknown	329

Outcome

- ◆ Recovered
- Not recovered
- Died
- Unknown

Onset

Date range	<i>n</i> IDs
07–08	7
05–06	15
03–04	20
2024, 01–02	49
11–12	142
09–10	172
07–08	55
05–06	121
03–04	116
2023, 01–02	205
11–12	436
09–10	454
07–08	461
05–06	595
03–04	940
2022, 01–02	2529
11–12	3832
09–10	3128
07–08	5020
05–06	6519
03–04	5420
2021, 01–02	2870
2020, 11–12	165
Unknown	7602

Onset interval[‡]

<i>n</i> days	<i>n</i> IDs
≤ 3	12258
5	1614
10	3198
20	3723
30	2170
60	2758
90	1197
120	687
150	486
180	372
210	267
≥ 211	1192
Unk.	10951

***n* symptoms**

COVID-19	280
All other	204

Age = unknown^{‡‡}

COVID-19	5838
All other	2366

	All COVID-19 2020.12.14–2024.08.30	All non-COVID-19 1990.07–2020.12.13
<i>n</i> VAERS IDs	40873	19951
μ , Mean ^{‡‡}	51.3	32.8
\hat{x} , Median ^{‡‡}	52.0	29.0
σ , Standard deviation ^{‡‡}	18.1	24.2
γ , Skewness ^{‡‡}	-0.1	0.4
<i>n</i> Hospitalized	12842	9144
<i>n</i> Life threatening	2910	2312
<i>n</i> Recovered	4508	3994
<i>n</i> Not recovered	29397	8554
<i>n</i> Died	533	347

[†]Terms queried in SYMPTOMS 1–5 include: Acute disseminated encephalomyelitis, autoimmune (encephalitis, thrombocytopenia), (autoimmune demyelinating, Addison’s, Basedow, coeliac, Crohn’s, Ménière’s, & Vogt–Koyanagi–Harada) disease, (antiphospholipid, Behçet’s, Dressler’s, Evans, Goodpasture’s, Guillain-Barré, Miller Fisher, POEMS, Raynaud, sicca, Sjögren’s, & Susac’s) syndrome, CIDP, granulomatosis w/ polyangiitis, IgA nephropathy, lupus, MS, myasthenia gravis, myositis, NMOSD, and sarcoidosis. [‡]*n* IDs are all COVID-19.
^{‡‡}Natural language processing was used to extract age values from SYMPTOM TEXT and fill in missing data. Remaining reports with unknown age are neither plotted, nor included in calculations, but are included in subtotals (*n* VAERS IDs etc.). All plotted age values have a random adjustment within $\sim \pm 0.5$ yr. Selected COVID-19 missing onset interval values (especially children less than 10 years old) were manually edited using SYMPTOM TEXT. All other data are plotted ‘as is’. ^{‡‡‡}Symbols link to respective reports at OpenVAERS.
^{*}VAERS disclaimer (excerpt): “... VAERS is designed to rapidly detect unusual or unexpected patterns of adverse events, also known as ‘safety signals’. If a possible ... signal is found in VAERS data, further analysis is performed with other safety systems, such as the CDC’s [VSD & CISA, or FDA BEST].” “VAERS reports may contain information that is incomplete, inaccurate, coincidental, or unverifiable.” “The number of reports alone cannot be interpreted as evidence of a causal association between a vaccine & an adverse event.” vaers.hhs.gov