



ID, sex, <i>n</i> doses	
◇ VAERS ID <sup>Ⓔ</sup>	
◇ Female	
◇ Male	
◇ Unknown (sex)	
◇ <i>n</i> doses ( <i>u</i> = unk.)	

<i>n</i> per manufacturer	
Janssen	646
Moderna	2852
Novavax	2
Pfizer	5636
Unknown	20

Outcome	
◆ Recovered	
◆ Not recovered	
◆ Died	
◆ Unknown	

<i>n</i> symptoms	
COVID-19	7
All other	6

Age = unknown <sup>‡‡</sup>	
COVID-19	670
All other	22

Onset date <sup>‡</sup>	
Date range	<i>n</i> IDs
07–08	2
05–06	5
03–04	4
2024, 01–02	3
11–12	16
09–10	31
07–08	3
05–06	16
03–04	55
2023, 01–02	93
11–12	158
09–10	104
07–08	109
05–06	172
03–04	116
2022, 01–02	277
11–12	734
09–10	982
07–08	1516
05–06	913
03–04	1763
2021, 01–02	1199
2020, 11–12	271
Unknown	614

Onset interval <sup>‡</sup>	
<i>n</i> days	<i>n</i> IDs
≤ 3	3551
5	339
10	483
20	375
30	294
60	434
90	414
120	357
150	415
180	518
210	284
≥ 211	511
Unk.	1181

	All COVID-19 2020.12.14–2024.08.30	All non-COVID-19 1990.07–2020.12.13
<i>n</i> VAERS IDs	9156	276
$\mu$ , Mean <sup>‡‡</sup>	49.4	44.9
$\hat{x}$ , Median <sup>‡‡</sup>	50.0	48.0
$\sigma$ , Standard deviation <sup>‡‡</sup>	16.3	22.3
$\gamma$ , Skewness <sup>‡‡</sup>	−0.0	−0.2
<i>n</i> Hospitalized	753	47
<i>n</i> Life threatening	147	13
<i>n</i> Recovered	2116	48
<i>n</i> Not recovered	4870	145
<i>n</i> Died	59	0

<sup>†</sup>Terms queried in SYMPTOM fields 1–5 include: anosmia, dysosmia, hyposmia, microsmia, parosmia, olfactory hallucination, olfactory nerve disorder, olfactory test abnormal, and phantosmia. <sup>‡</sup>Onset of symptoms post vaccine. *n* IDs are all CV19. <sup>‡‡</sup>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. Symbols have a random adjustment within  $\sim \pm 0.5$  yr. <sup>Ⓔ</sup>Symbols link to OpenVAERS. <sup>\*</sup>VAERS disclaimer (excerpts): “... VAERS is designed to rapidly detect unusual or unexpected patterns of adverse events, also referred to as ‘safety signals’. If a possible safety signal is found ..., further analysis is performed with other safety systems, such as [CDC’s VSD & CISA, or FDA BEST].” vaers.hhs.gov