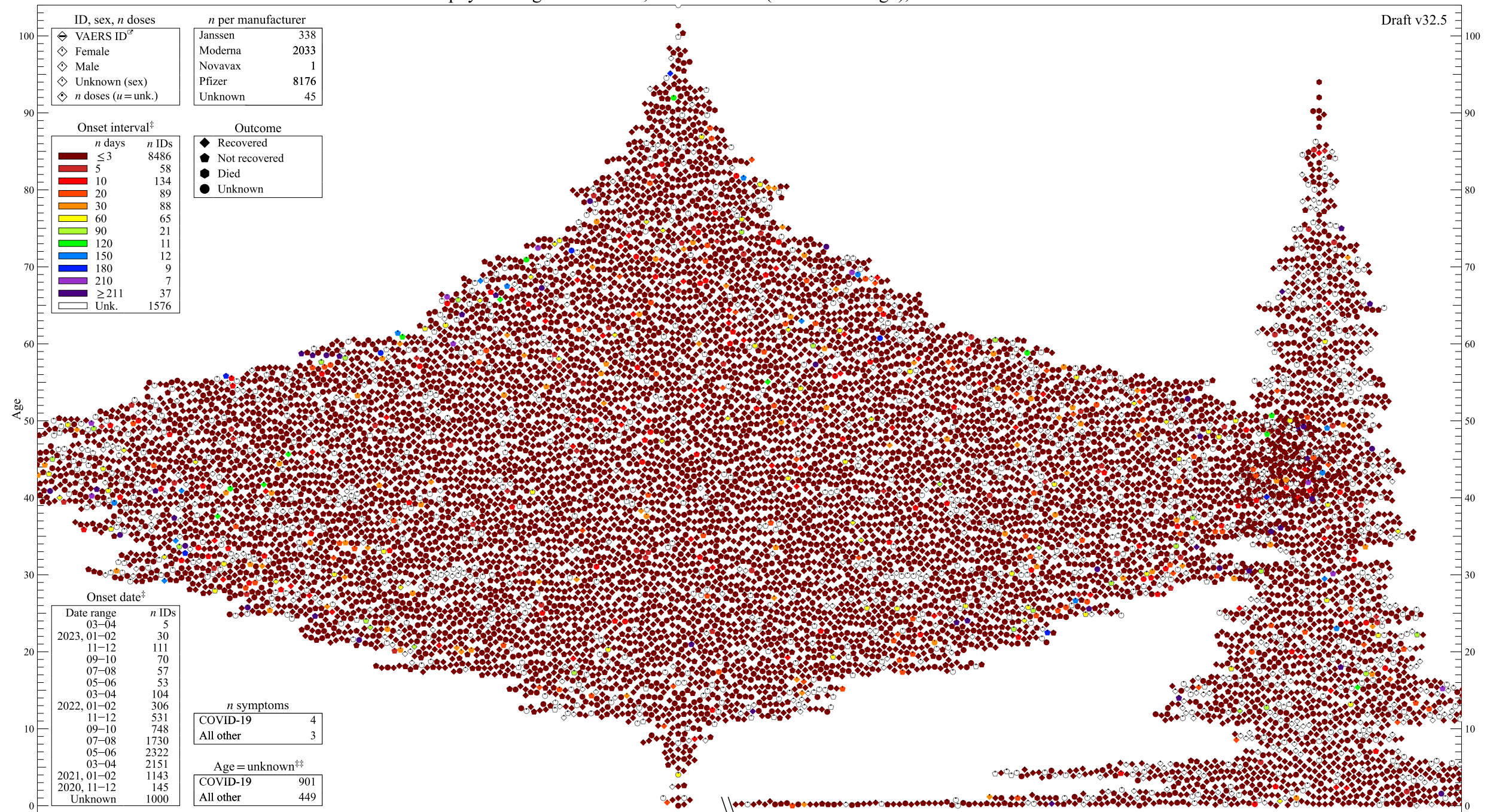


# Anaphylaxis: age distribution, VAERS data\* (U.S. and foreign), 1990.07–2024.08.30<sup>†</sup>

Draft v32.5



**ID, sex, *n* doses**

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

***n* per manufacturer**

Janssen	338
Moderna	2033
Novavax	1
Pfizer	8176
Unknown	45

**Onset interval<sup>‡</sup>**

<i>n</i> days	<i>n</i> IDs
≤ 3	8486
5	58
10	134
20	89
30	88
60	65
90	21
120	11
150	12
180	9
210	7
≥ 211	37
Unk.	1576

**Outcome**

◆ Recovered
● Not recovered
● Died
● Unknown

**Onset date<sup>‡</sup>**

Date range	<i>n</i> IDs
03–04	5
2023, 01–02	30
11–12	111
09–10	70
07–08	57
05–06	53
03–04	104
2022, 01–02	306
11–12	531
09–10	748
07–08	1730
05–06	2322
03–04	2151
2021, 01–02	1143
2020, 11–12	145
Unknown	1000

***n* symptoms**

COVID-19	4
All other	3

**Age = unknown<sup>‡‡</sup>**

COVID-19	901
All other	449

	All COVID-19 2020.12.14–2024.08.30	All non-COVID-19 1990.07–2020.12.13
<i>n</i> VAERS IDs	10593	2922
$\mu$ , Mean <sup>‡‡</sup>	43.6	26.1
$\hat{x}$ , Median <sup>‡‡</sup>	43.0	19.0
$\sigma$ , Standard deviation <sup>‡‡</sup>	16.8	23.0
$\gamma$ , Skewness <sup>‡‡</sup>	0.4	0.7
<i>n</i> Hospitalized	3096	848
<i>n</i> Life threatening	1775	742
<i>n</i> Recovered	4912	1676
<i>n</i> Not recovered	3319	359
<i>n</i> Died	72	57

<sup>†</sup>Terms queried in SYMPTOM fields 1–5 include: anaphylactic reaction and anaphylaxis. Terms excluded: anaphylaxis prophylaxis.

<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.

\*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