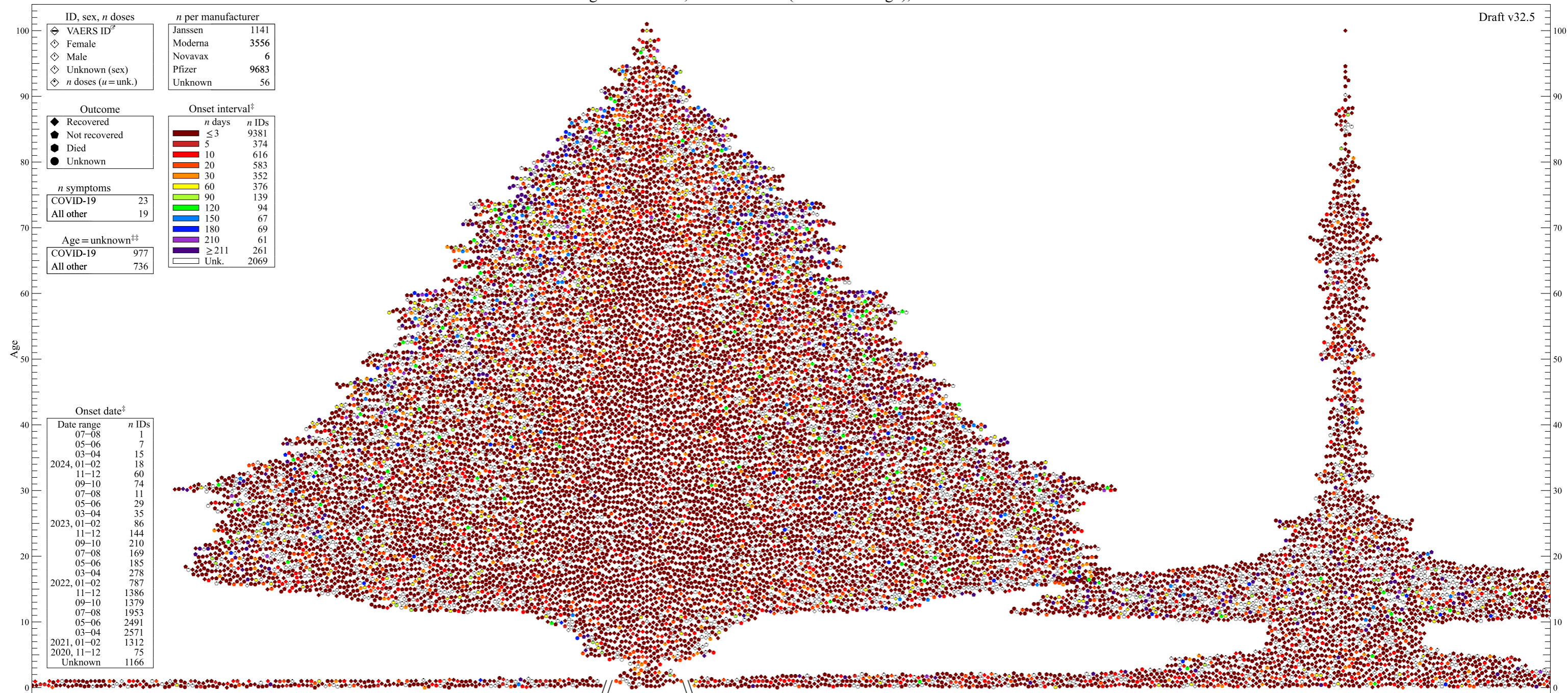


# Seizure: age distribution, VAERS data\* (U.S. and foreign), 1990.07–2024.08.30†

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	1141
Moderna	3556
Novavax	6
Pfizer	9683
Unknown	56

**Outcome**

◆ Recovered
● Not recovered
● Died
● Unknown

**Onset interval<sup>‡</sup>**

<i>n</i> days	<i>n</i> IDs
≤ 3	9381
5	374
10	616
20	583
30	352
60	376
90	139
120	94
150	67
180	69
210	61
≥ 211	261
Unk.	2069

***n* symptoms**

COVID-19	23
All other	19

**Age = unknown<sup>‡‡</sup>**

COVID-19	977
All other	736

**Onset date<sup>‡</sup>**

Date range	<i>n</i> IDs
07–08	1
05–06	7
03–04	15
2024, 01–02	18
11–12	60
09–10	74
07–08	11
05–06	29
03–04	35
2023, 01–02	86
11–12	144
09–10	210
07–08	169
05–06	185
03–04	278
2022, 01–02	787
11–12	1386
09–10	1379
07–08	1953
05–06	2491
03–04	2571
2021, 01–02	1312
2020, 11–12	75
Unknown	1166

	All COVID-19 2020.12.14–2024.08.30	All non-COVID-19 1990.07–2020.12.13
<i>n</i> VAERS IDs	14442	5832
$\mu$ , Mean <sup>‡‡</sup>	40.3	13.2
$\hat{x}$ , Median <sup>‡‡</sup>	37.0	7.0
$\sigma$ , Standard deviation <sup>‡‡</sup>	20.8	18.2
$\gamma$ , Skewness <sup>‡‡</sup>	0.5	2.1
<i>n</i> Hospitalized	4160	2125
<i>n</i> Life threatening	1392	490
<i>n</i> Recovered	5676	2677
<i>n</i> Not recovered	4934	1339
<i>n</i> Died	441	110

†Terms queried in SYMPTOM fields 1–5 include: seizure. Terms excluded: alcoholic seizure.

‡‡Onset of symptoms post vaccine.” *n* IDs are all COVID-19.

‡Natural language processing was used to extract age values from SYMPTOM TEXT & fill in missing data. Remaining reports with unk. 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. All other data are plotted ‘as is’. <sup>Ⓔ</sup>Symbols link to respective reports at 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 the CDC’s [VSD & CISA, or FDA BEST].” “Note that the inclusion of events in VAERS data does not infer causality.” vaers.hhs.gov