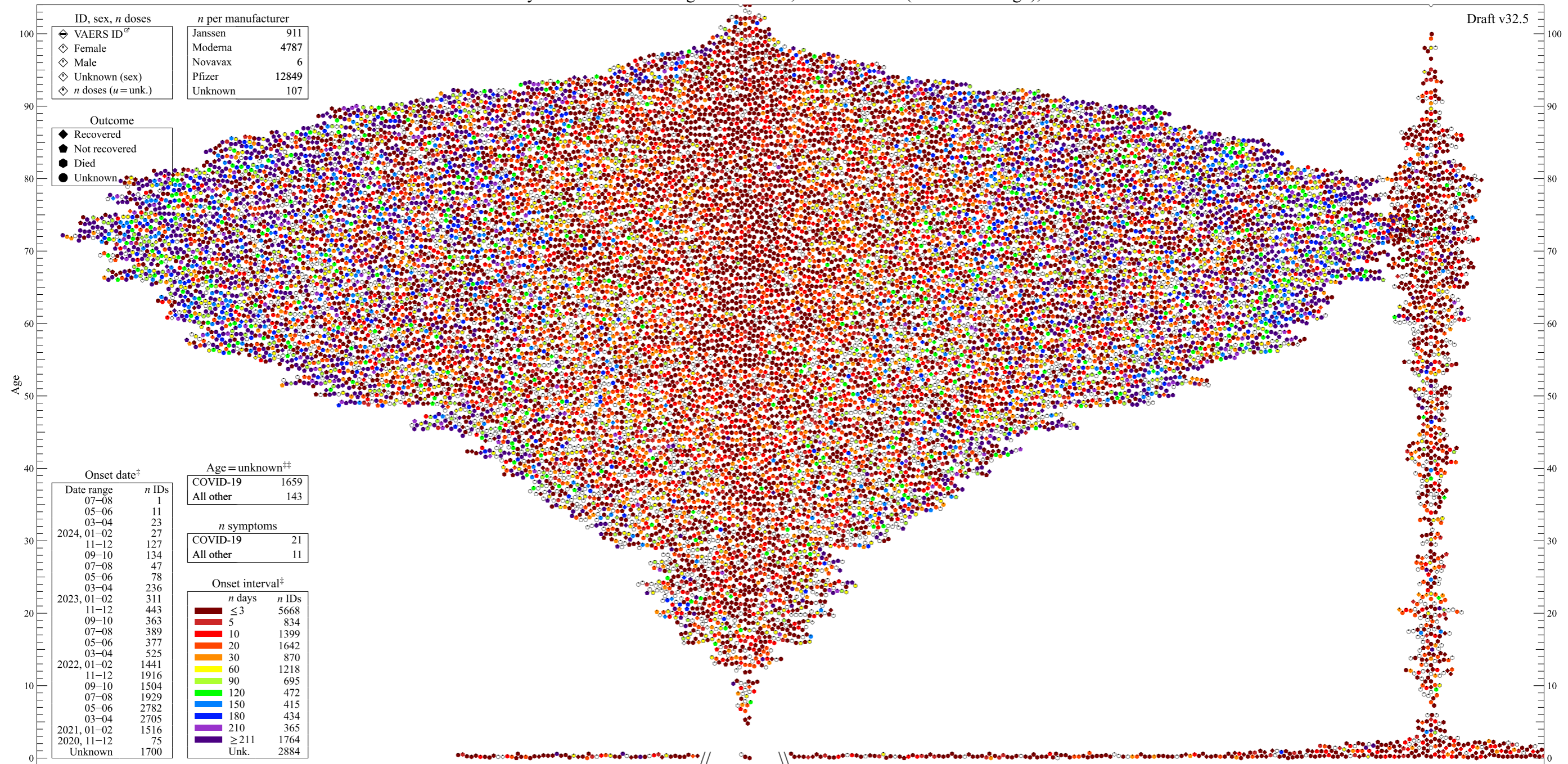


Cardiac arrest and myocardial infarction: age distribution, VAERS data* (U.S. and foreign), 1990.07–2024.08.30[†]

Draft v32.5



ID, sex, n doses

- ◇ VAERS ID[Ⓔ]
- ◇ Female
- ◇ Male
- ◇ Unknown (sex)
- ◇ n doses ($\mu = \text{unk.}$)

n per manufacturer

Janssen	911
Moderna	4787
Novavax	6
Pfizer	12849
Unknown	107

Outcome

- ◆ Recovered
- ◆ Not recovered
- Died
- Unknown

Onset date[‡]

Date range	n IDs
07–08	1
05–06	11
03–04	23
2024, 01–02	27
11–12	127
09–10	134
07–08	47
05–06	78
03–04	236
2023, 01–02	311
11–12	443
09–10	363
07–08	389
05–06	377
03–04	525
2022, 01–02	1441
11–12	1916
09–10	1504
07–08	1929
05–06	2782
03–04	2705
2021, 01–02	1516
2020, 11–12	75
Unknown	1700

Age = unknown^{}**

COVID-19	1659
All other	143

n symptoms

COVID-19	21
All other	11

Onset interval[‡]

n days	n IDs
≤ 3	5668
5	834
10	1399
20	1642
30	870
60	1218
90	695
120	472
150	415
180	434
210	365
≥ 211	1764
Unk.	2884

	All COVID-19 2020.12.14–2024.08.30	All non-COVID-19 1990.07–2020.12.13
n VAERS IDs	18660	1746
μ , Mean ^{**}	64.7	36.0
\hat{x} , Median ^{**}	67.0	34.0
σ , Standard deviation ^{**}	18.2	33.3
γ , Skewness ^{**}	−0.5	0.2
n Hospitalized	11641	802
n Life threatening	9004	1181
n Recovered	2257	271
n Not recovered	11548	1105
n Died	5449	908

[†]Terms queried in SYMPTOM fields 1–5 include: cardiac arrest, cardiac failure, myocardial infarction, and ventricular failure.

^{**}Onset of symptoms post vaccine. 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. All plotted age values have a random adjustment within $\sim \pm 0.5$ yr.

[Ⓔ]Symbols link to respective reports at OpenVAERS.

*VAERS disclaimer (excerpts): "... VAERS is designed to rapidly detect unusual or unexpected patterns of adverse events, also known as 'safety signals'. If a safety signal is found ..., further studies can be done in safety systems such as the CDC's [VSD & CISA]." "Note that the inclusion of events in VAERS data does not infer causality." vaers.hhs.gov