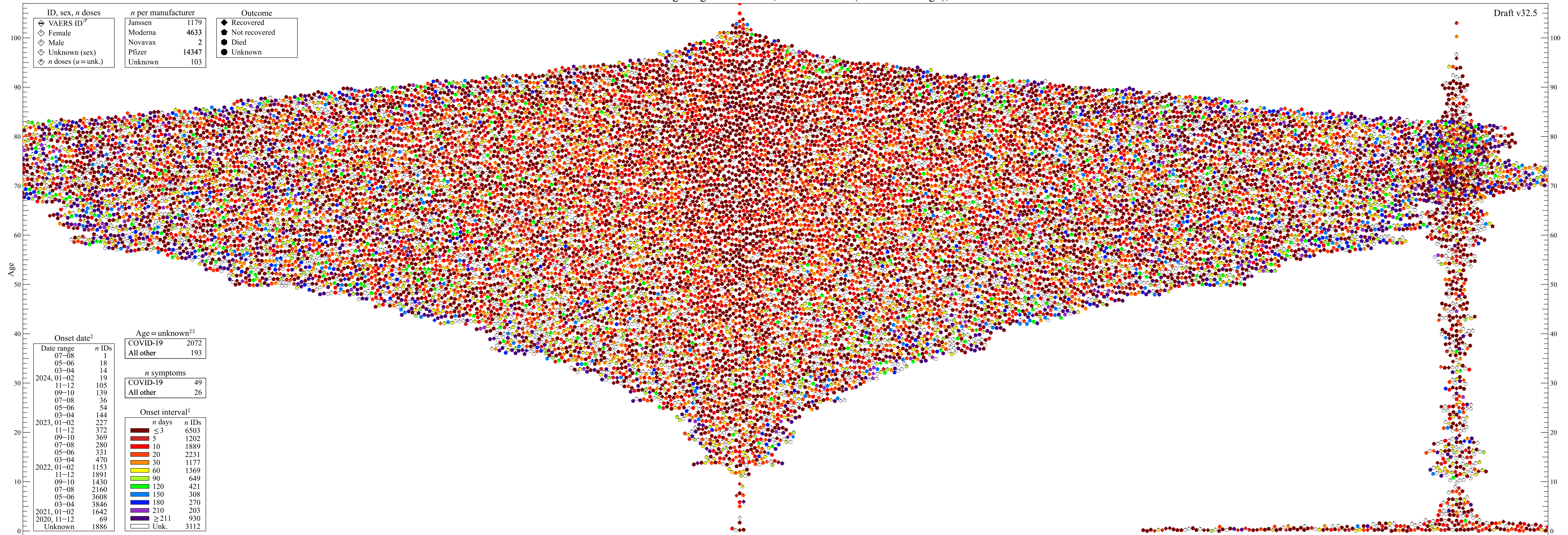


Stroke – ischemic and hemorrhagic: age distribution, VAERS data* (U.S. and foreign), 1990.07–2024.08.30[†]

Draft v32.5



ID, sex, *n* doses

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

***n* per manufacturer**

Janssen	1179
Moderna	4633
Novavax	2
Pfizer	14347
Unknown	103

Outcome

- ◆ Recovered
- Not recovered
- Died
- Unknown

Onset date[‡]

Date range	<i>n</i> IDs
07–08	1
05–06	18
03–04	14
2024, 01–02	19
11–12	105
09–10	139
07–08	36
05–06	54
03–04	144
2023, 01–02	227
11–12	372
09–10	369
07–08	280
05–06	331
03–04	470
2022, 01–02	1153
11–12	1891
09–10	1430
07–08	2160
05–06	3608
03–04	3846
2021, 01–02	1642
2020, 11–12	69
Unknown	1886

Age = unknown^{‡‡}

COVID-19	2072
All other	193

***n* symptoms**

COVID-19	49
All other	26

Onset interval[‡]

<i>n</i> days	<i>n</i> IDs
≤ 3	6503
5	1202
10	1889
20	2231
30	1177
60	1369
90	649
120	421
150	308
180	270
210	203
≥ 211	930
Unk.	3112

	All COVID-19 2020.12.14–2024.08.30	All non-COVID-19 1990.07–2020.12.13
<i>n</i> VAERS IDs	20264	1224
μ , Mean ^{‡‡}	65.4	40.3
\hat{x} , Median ^{‡‡}	68.0	44.0
σ , Standard deviation ^{‡‡}	17.1	31.5
γ , Skewness ^{‡‡}	-0.5	-0.0
<i>n</i> Hospitalized	14615	767
<i>n</i> Life threatening	6226	374
<i>n</i> Recovered	2357	213
<i>n</i> Not recovered	13098	583
<i>n</i> Died	2297	156

[†]Terms queried in SYMPTOM fields 1–5 include: (brain/brain stem/cerebral/cerebellar) ischemia, cerebrovascular accident, (intracerebral/intracranial/intraparenchymal/intraventricular/subarachnoid) hemorrhage, (cerebral/lacunar) infarction, stroke (all types, except excluded), and transient ischemic attack. Terms excluded: heat stroke, pseudostroke, stroke-like migraine attacks, stroke volume, and sun stroke.

[‡]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 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 CV19 missing onset interval data (especially <10 years old) were manually edited using SYMPTOM TEXT. All other data plotted 'as is'. ^{‡‡‡}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 in VAERS data, further analysis is performed with other safety systems, such as the CDC's [VSD and CISA, or FDA BEST]." "VAERS reports may contain information that is incomplete, inaccurate, coincidental, or unverifiable." "Note that the inclusion of events in VAERS data does not infer causality." vaers.hhs.gov