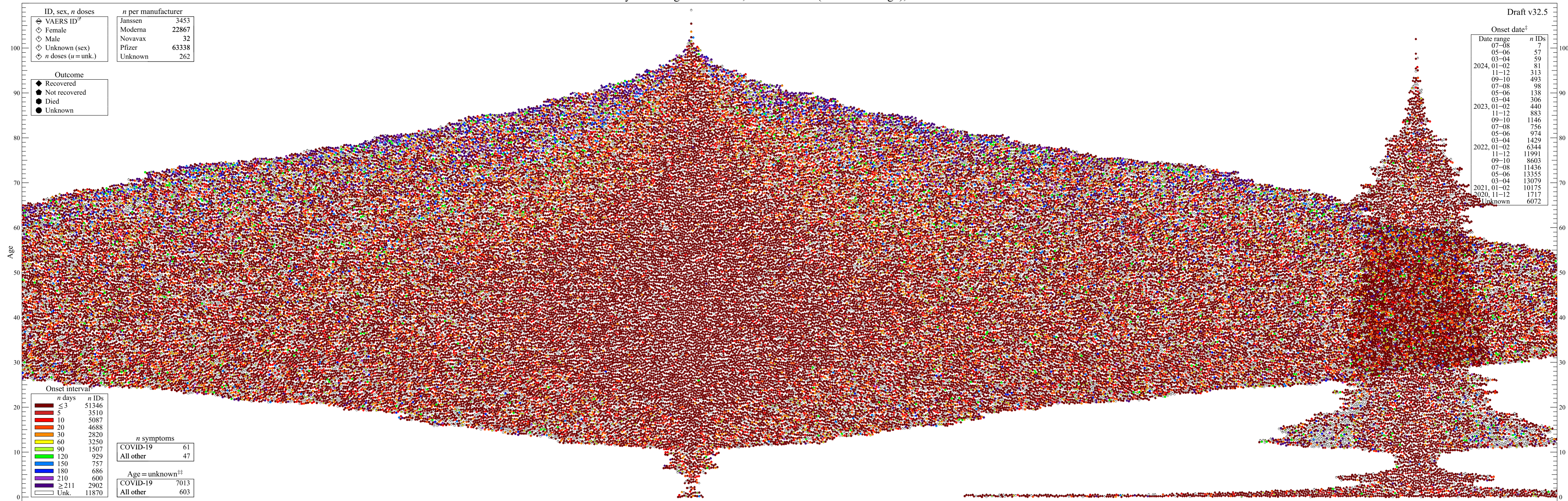


Cardiac arrhythmias: age distribution, VAERS data* (U.S. and foreign), 1990.07–2024.08.30[†]

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ID, sex, <i>n</i> doses		<i>n</i> per manufacturer	
◇ VAERS ID [‡]		Janssen	3453
◇ Female		Moderna	22867
◇ Male		Novavax	32
◇ Unknown (sex)		Pfizer	63338
◇ <i>n</i> doses (<i>u</i> =unk.)		Unknown	262

Outcome	
◆ Recovered	
● Not recovered	
● Died	
● Unknown	

Onset date [‡]	
Date range	<i>n</i> IDs
07–08	7
05–06	57
03–04	59
2024, 01–02	81
11–12	313
09–10	493
07–08	98
05–06	138
03–04	306
2023, 01–02	440
11–12	883
09–10	1146
07–08	756
05–06	974
03–04	1429
2022, 01–02	6344
11–12	11991
09–10	8603
07–08	11436
05–06	13355
03–04	13079
2021, 01–02	10175
2020, 11–12	1717
Unknown	6072

Onset interval [‡]		<i>n</i> symptoms	
<i>n</i> days	<i>n</i> IDs	COVID-19	61
≤ 3	51346	All other	47
5	3510		
10	5087		
20	4688		
30	2820		
60	3250		
90	1507		
120	929		
150	757		
180	686		
210	600		
≥ 211	2902		
Unk.	11870		

	All COVID-19 2020.12.14–2024.08.30	All non-COVID-19 1990.07–2020.12.13
<i>n</i> VAERS IDs	89952	9939
μ , Mean ^{‡‡}	48.5	32.8
\hat{x} , Median ^{‡‡}	47.0	29.0
σ , Standard deviation ^{‡‡}	18.2	24.2
γ , Skewness ^{‡‡}	0.2	0.4
<i>n</i> Hospitalized	23444	2982
<i>n</i> Life threatening	6946	1085
<i>n</i> Recovered	21743	4967
<i>n</i> Not recovered	53016	2607
<i>n</i> Died	2181	270

[†]Terms queried in SYMPTOM fields 1–5 include: cardiac (arrhythmia, fibrillation, flutter, murmur) atrioventricular block, bradyarrhythmia, bradycardia, extrasystole, palpitations, sick sinus syndrome, sinus node dysfunction, tachyarrhythmia, tachycardia, torsade de pointes, and (Wolff-Parkinson-White, Adams-Stokes) syndrome. Terms excluded: pacemaker generated arrhythmia. ^{‡‡}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 (*n* VAERS IDs etc.). All plotted age values have a random adjustment within $\sim \pm 0.5$ yr. Selected COVID-19 missing onset interval values (especially children less than 10 years old) were manually edited using SYMPTOM TEXT. All other data are plotted 'as is'. [‡]Symbols link to respective reports at OpenVAERS.

*VAERS disclaimer (excerpt): "... VAERS is designed to rapidly detect unusual or unexpected patterns of adverse events, also known as 'safety signals'. If a possible ... signal is found in VAERS data, further analysis is performed with other safety systems, such as the CDC's [VSD & CISA, or FDA BEST]." "VAERS reports may contain information that is incomplete, inaccurate, coincidental, or unverifiable." "The number of reports alone cannot be interpreted as evidence of a causal association between a vaccine & an adverse event." vaers.hhs.gov