Syncope: age distribution, VAERS data* (U.S. and foreign), 1990.07−2024.08.30†

Draft v32.5

n per manufacturer

Janssen	3999
Moderna	10960
Novavax	12
Pfizer	30724
Unknown	87

Age = unknown‡‡

COVID-19	2653
All other	1716

n symptoms

COVID-19	2
All other	3

Onset date‡

Date range	*n* IDs
2024, 07−08	7
05−06	27
03−04	34
2024, 01−02	42
11−12	184
09−10	274
07−08	33
05−06	49
03−04	75
2023, 01−02	120
11−12	369
09−10	524
07−08	298
05−06	439
03−04	592
2022, 01−02	2212
11−12	4629
09−10	4277
07−08	7185
05−06	9128
03−04	8410
2021, 01−02	3971
2020, 11−12	418
Unknown	2485

Onset interval‡

n days	*n* IDs
≤ 3	35245
5	667
10	945
20	873
30	691
60	657
90	247
120	134
150	135
180	143
210	103
≥ 211	591
Unk.	5351

Age

	All COVID-19 2020.12.14−2024.08.30	All non-COVID-19 1990.07−2020.12.13
n VAERS IDs	45782	19426
μ, Mean‡‡	38.2	20.8
$\hat{x}$, Median‡‡	34.0	15.0
σ, Standard deviation‡‡	19.7	17.0
γ, Skewness‡‡	0.7	1.9
n Hospitalized	6448	2424
n Life threatening	2071	509
n Recovered	21796	13362
n Not recovered	14518	2270
n Died	602	111

†Terms queried in SYMPTOM fields 1−5 include: syncope and presyncope. Terms excluded: psychogenic pseudosyncope.

‡‡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).

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

*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