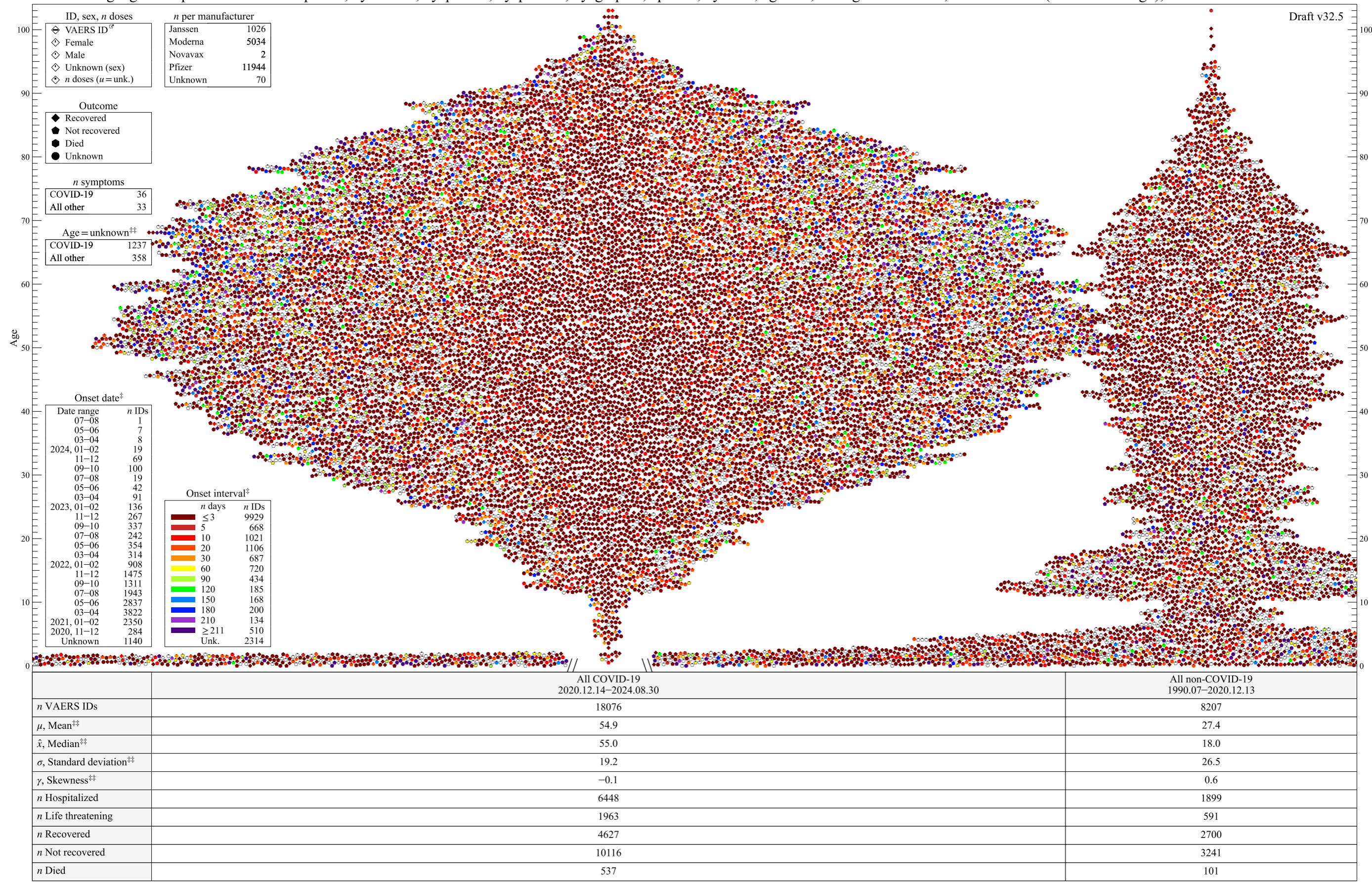


Language and speech disorders – aphasia, dysarthria, dysphonia, dysphemia, dysgraphia, apraxia, dyslalia, agnosia, etc: age distribution, VAERS data* (U.S. and foreign), 1990.07–2024.08.30†



*Terms queried in SYMPTOM fields 1–5 include: agnosia, a/dys -graphia, a/dys/para -lexia, a/dys -aphasia, a/dys/mis -phonias, a/dys/echo -praxia, cognitive linguistic deficit, (communication/language/speech/speech sound) disorder, disorganized speech, an/dys -arthria, dys/copro/echo -lalia, dysphemia, dysprosody, & logorrhea. [‡]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

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