

The Vaccine Adverse Event Reporting System (VAERS) Results

Data current as of 12/24/2021

Vaccine Manufacturer	Sex	Event Category	Events Reported	Percent (of 43,918)
JANSSEN	Female	Death	715	1.63%
		Life Threatening	898	2.04%
		Total	1,613	3.67%
	Male	Death	921	2.10%
		Life Threatening	941	2.14%
		Total	1,862	4.24%
	Unknown	Death	173	0.39%
		Life Threatening	27	0.06%
		Total	200	0.46%
	Total			3,675
MODERNA	Female	Death	2,280	5.19%
		Life Threatening	3,344	7.61%
		Total	5,624	12.81%
	Male	Death	3,351	7.63%
		Life Threatening	2,941	6.70%
		Total	6,292	14.33%
	Unknown	Death	118	0.27%
		Life Threatening	59	0.13%
		Total	177	0.40%
	Total			12,093
PFIZER\BIONTECH	Female	Death	6,514	14.83%
		Life Threatening	9,233	21.02%
		Total	15,747	35.86%
	Male	Death	7,535	17.16%
		Life Threatening	7,286	16.59%
		Total	14,821	33.75%
	Unknown	Death	924	2.10%
		Life Threatening	240	0.55%
		Total	1,164	2.65%
	Total			31,732
UNKNOWN MANUFACTURER	Female	Death	32	0.07%
		Life Threatening	41	0.09%
		Total	73	0.17%
	Male	Death	50	0.11%
		Life Threatening	48	0.11%
		Total	98	0.22%
	Unknown	Death	9	0.02%
		Life Threatening	1	0.00%
		Total	10	0.02%
	Total			181
Total			47,681	108.57%

Note: Submitting a report to VAERS does not mean that healthcare personnel or the vaccine caused or contributed to the adverse event (possible side effect).

Notes:

Caveats: VAERS accepts reports of adverse events and reactions that occur following vaccination. Healthcare providers, vaccine manufacturers, and the public can submit reports to VAERS. While very important in monitoring vaccine safety, VAERS reports alone cannot be used to determine if a vaccine caused or contributed to an adverse event or illness. The reports may contain information that is incomplete, inaccurate, coincidental, or unverifiable. Most reports to VAERS are voluntary, which means they are subject to biases. This creates specific limitations on how the data can be used scientifically. Data from VAERS reports should always be interpreted with these limitations in mind.

The strengths of VAERS are that it is national in scope and can quickly provide an early warning of a safety problem with a vaccine. As part of CDC and FDA's multi-system approach to post-licensure vaccine safety monitoring, VAERS is designed to rapidly detect unusual or unexpected patterns of adverse events, also known as "safety signals." If a safety signal is found in VAERS, further studies can be done in safety systems such as the CDC's Vaccine Safety Datalink (VSD) or the Clinical Immunization Safety Assessment (CISA) project. These systems do not have the same limitations as VAERS, and can better assess health risks and possible connections between adverse events and a vaccine.

Key considerations and limitations of VAERS data:

- Vaccine providers are encouraged to report any clinically significant health problem following vaccination to VAERS, whether or not they believe the vaccine was the cause.
- Reports may include incomplete, inaccurate, coincidental and unverified information.
- The number of reports alone cannot be interpreted or used to reach conclusions about the existence, severity, frequency, or rates of problems associated with vaccines.
- VAERS data are limited to vaccine adverse event reports received between 1990 and the most recent date for which data are available.
- VAERS data do not represent all known safety information for a vaccine and should be interpreted in the context of other scientific information.

Some items may have more than 1 occurrence in any single event report, such as Symptoms, Vaccine Products, Manufacturers, and Event Categories. If data are grouped by any of these items, then the number in the Events Reported column may exceed the total number of unique events. If percentages are shown, then the associated percentage of total unique event reports will exceed 100% in such cases. For example, the number of Symptoms mentioned is likely to exceed the number of events reported, because many reports include more than 1 Symptom. When more than 1 Symptom occurs in a single report, then the percentage of Symptoms to unique events is more than 100%. [More information. \(/wonder/help/vaers.html#Suppress\)](#)

Data contains VAERS reports processed as of 12/24/2021. The VAERS data in WONDER are updated weekly, yet the VAERS system receives continuous updates including revisions and new reports for preceding time periods. Duplicate event reports and/or reports determined to be false are removed from VAERS. [More information. \(/wonder/help/vaers.html#Reporting\)](#)

Values of Event Category field vary in their availability over time due to changes in the reporting form. The "Emergency Room/Office Visit" value was available only for events reported using the VAERS-1 form, active 07/01/1990 to 06/29/2017. The "Congenital Anomaly/Birth Defect", "Emergency Room", and "Office Visit" values are available only for events reported using the VAERS 2.0 form, active 06/30/2017 to present. These changes must be considered when evaluating count of events for these categories.

About COVID19 vaccines:

- For more information on how many persons have been vaccinated in the US for COVID19 to date, see <https://covid.cdc.gov/covid-data-tracker/#vaccinations/> (<https://covid.cdc.gov/covid-data-tracker/#vaccinations/>).
- One report may state that the patient received more than one brand of COVID-19 vaccine on the same visit. This is a reporting error, but explains why the total number of reports may not equal the total number of COVID-19 vaccine doses.

Help: See [The Vaccine Adverse Event Reporting System \(VAERS\) Documentation \(/wonder/help/vaers.html\)](#) for more information.

Query Date: Jan 5, 2022 8:14:40 AM

Suggested Citation:

United States Department of Health and Human Services (DHHS), Public Health Service (PHS), Centers for Disease Control (CDC) / Food and Drug Administration (FDA), Vaccine Adverse Event Reporting System (VAERS) 1990 - 12/24/2021, CDC WONDER On-line Database. Accessed at <http://wonder.cdc.gov/vaers.html> on Jan 5, 2022 8:14:40 AM

Query Criteria:

Event Category: Death; Life Threatening
Vaccine Products: COVID19 VACCINE (COVID19)
Group By: Vaccine Manufacturer; Sex; Event Category
Show Totals: True
Show Zero Values: False