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# Vaccine Safety Systems



OREGON IMMUNIZATION PROGRAM  
Private Provider Orientation, 6/25/24

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# Objectives

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- Increase awareness, understanding, and usability of vaccine safety systems
- Increase awareness of timely detection of vaccine safety signals
- Increase awareness of VAERS reporting requirements



# The Vaccine Life Cycle

safety at every phase

## GUIDE

### ACIP

ADVISORY COMMITTEE ON IMMUNIZATION PRACTICES

### BLA

BIOLOGICS LICENSE APPLICATION

### CDC

CENTERS FOR DISEASE CONTROL AND PREVENTION

### FDA

FOOD AND DRUG ADMINISTRATION

### IND

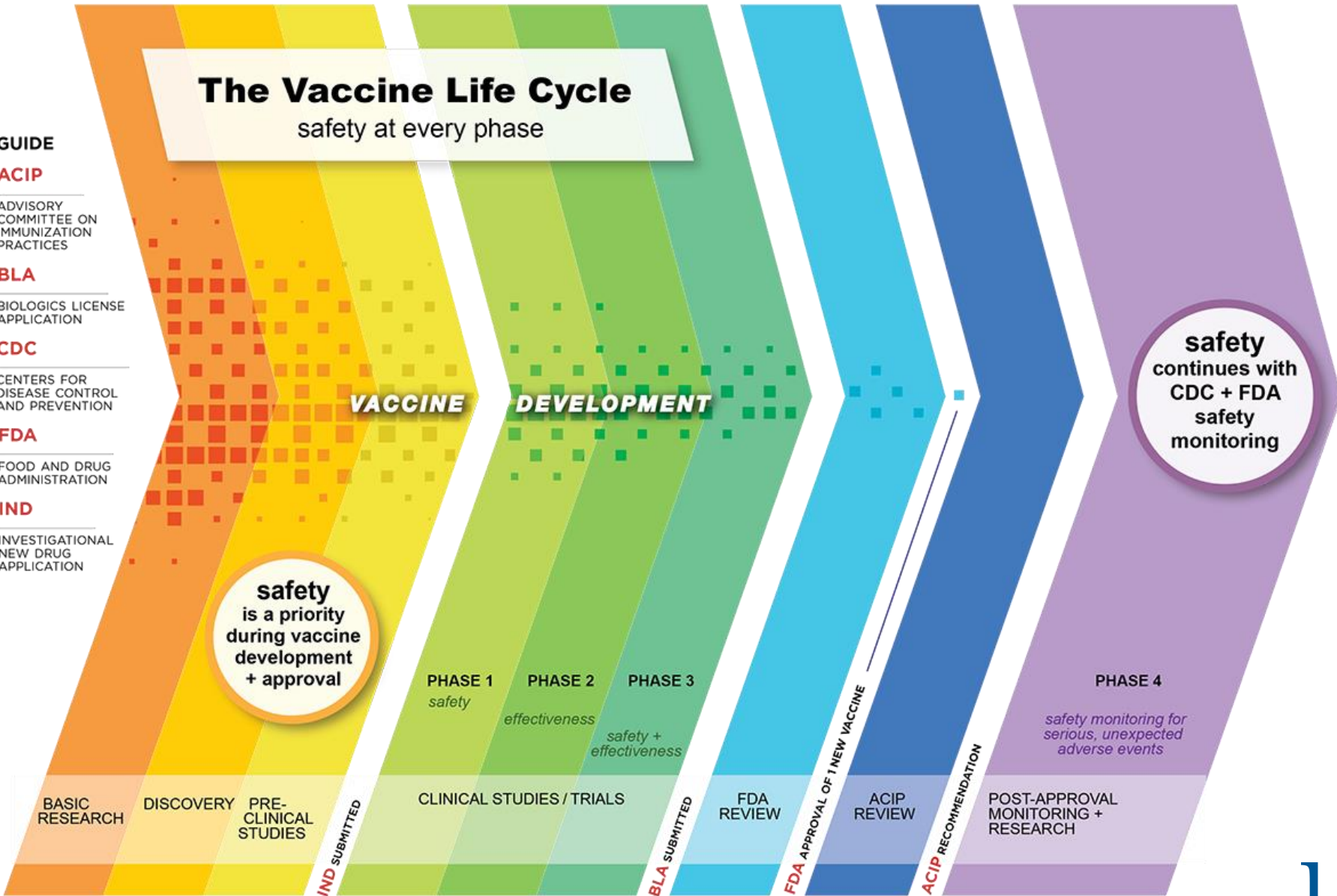
INVESTIGATIONAL NEW DRUG APPLICATION

VACCINE

DEVELOPMENT

safety is a priority during vaccine development + approval

safety continues with CDC + FDA safety monitoring



# Vaccine Safety Monitoring Systems



- Vaccine Adverse Events Reporting System (VAERS)
- Clinical Immunization Safety Assessment (CISA)
- Vaccine Safety Datalink (VSD)
- V-safe

# CISA (Clinical Immunization Safety Assessment)



## The goals of CISA:

- Serve as a vaccine safety resource for U.S. healthcare providers with complex vaccine safety questions about a specific patient to assist with immunization decision-making.
- Assist CDC and its partners in evaluating emerging vaccine safety issues.
- Conduct clinical research studies to better understand vaccine safety and identify preventive strategies for adverse events following immunization.

## Who can request a CISA Clinical Consultation?

- Healthcare providers or health departments
  - COVID-19 vaccine CISA Consultation
  - All the other vaccines and unrelated to COVID-19 vaccine

## What happens if there is an emergency clinical vaccine safety inquiry?

- CDC Emergency Operations Center Watch Desk will route the call to on-call staff.

# VSD (Vaccine Safety Datalink)

## VSD goals:

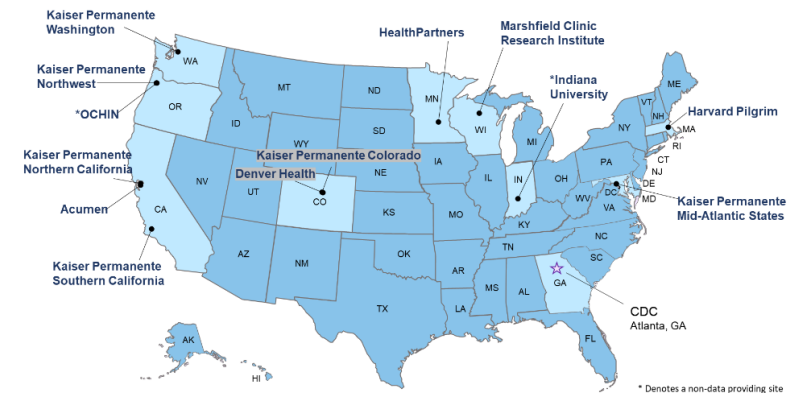
- Conduct research on important vaccine safety questions in large populations
- Conduct vaccine safety studies that come from questions or concerns in the medical literature or from other vaccine safety systems, like VAERS
- Monitor possible adverse events when new vaccines are licensed or when there are new vaccine recommendations
- Provide information to committees who make vaccine safety recommendations for the nation

## Rapid Cycle Analysis (RCA)

- Allows for quick detection

## Evaluating Safety of Vaccines in Pregnancy

- High priority to protect our littlest



# V-safe



- CDC's Immunization Safety Office (ISO) prepares for emergencies by ensuring that robust systems are in place to rapidly monitor vaccine safety in the event of a large-scale or emergency response vaccination program, which is particularly important when new vaccines are involved.
- Launched December 2020
  - 10.1 million v-safe participants completed more than 151 million health surveys about their experiences following COVID-19 vaccination.
  - V-safe data included in more than 20 scientific publications
- Monitoring system that sends a daily health check-in during the week after vaccination and then weekly for six weeks. For maternal RSV vaccine, check-ins will continue until delivery.

# VAERS

Vaccine Adverse Event Reporting System



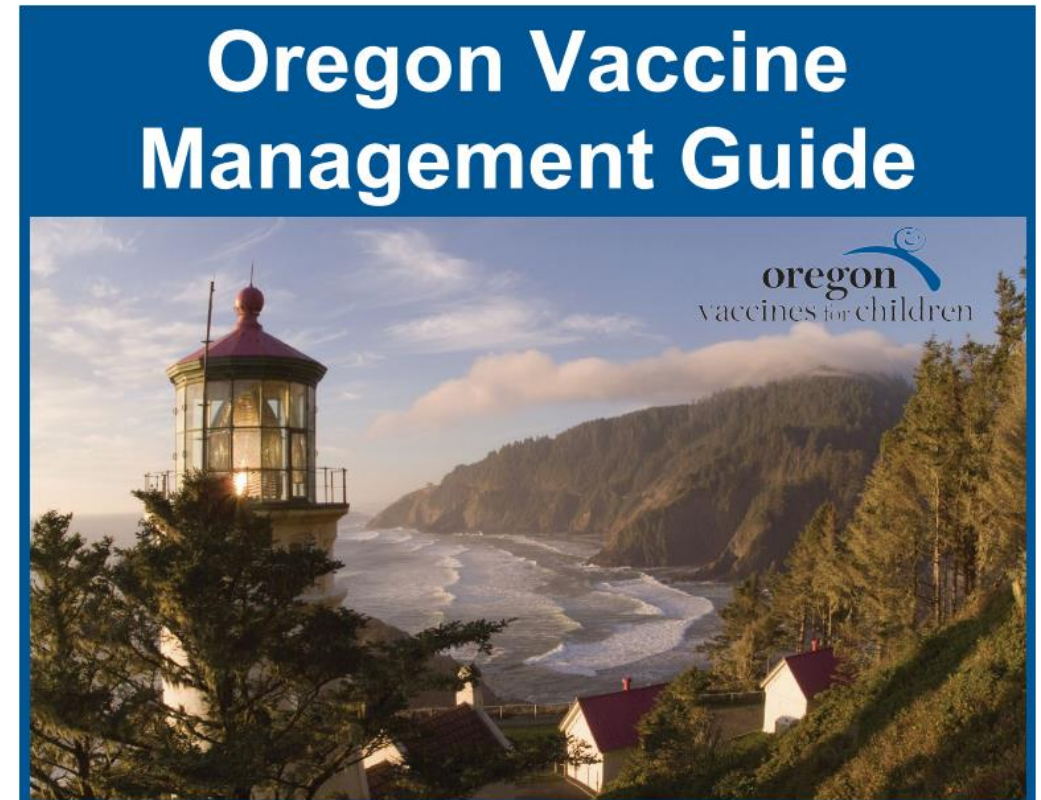


# Documenting Adverse Events

In Oregon, VFC providers must report all clinically significant adverse events that occur after administration of vaccines to the Vaccine Adverse Event Reporting System (VAERS).

- They must do so, even if they are not sure whether the vaccine caused the adverse event.
- VAERS accepts all reports. This includes reports of vaccination errors.

See page 7 of [Oregon's Vaccine Management Guide](#) for more information.



# Model Immunization Protocol

## 10. Storage and handling

## 11. Adverse events reporting

Report suspected adverse events to the Vaccine Adverse Events Reporting System (VAERS) online at <https://vaers.hhs.gov/reportevent.html>. VAERS Reporting Table: <https://vaers.hhs.gov/resources/infoproviders.html>

### Event and interval from vaccination

- A. Anaphylaxis or anaphylactic shock (7 days)
- B. Shoulder Injury Related to Vaccine Administration (7 days)
- C. Vasovagal syncope (7 days)
- D. Any acute complication or sequelae (including death) of above events (interval—not applicable)
- E. Events described in manufacturer's package insert as contraindications to additional doses of vaccine (interval—see package insert).



## 12. References

# Model Immunization Protocol

## 11. Adverse events reporting

Report adverse events online to the Vaccine Adverse Events Reporting System (VAERS) at <https://vaers.hhs.gov/reportevent.html>.

VAERS Reporting Table:

[https://vaers.hhs.gov/docs/VAERS\\_Table\\_of\\_Reportable\\_Events\\_Following\\_Vaccination.pdf](https://vaers.hhs.gov/docs/VAERS_Table_of_Reportable_Events_Following_Vaccination.pdf)

### Event and interval from vaccination

- A. Anaphylaxis or anaphylactic shock (7 days)
- B. Disseminated varicella vaccine-strain viral disease.
  - a. Vaccine-strain virus identified (time interval unlimited) o
  - b. If strain determination is not done or if laboratory testing is inconclusive (42 days)
- C. Varicella vaccine-strain viral reactivation (time interval unlimited )
- D. Shoulder Injury Related to Vaccine Administration (7 days)
- E. Vasovagal syncope (7 days)
- F. Any acute complication or sequelae (including death) of above events (interval - not applicable)
- G. Events described in manufacturer's package insert as contraindications to additional doses of vaccine (interval - see package insert)



Submitting  
a report to  
VAERS:  
Online

**VAERS** Vaccine Adverse Event Reporting System  
www.vaers.hhs.gov

About VAERS | Report an Adverse Event | VAERS Data | Resources | Submit Follow-Up Information

Completion Status | Report an Adverse Event - Patient Information | Instructions | en Español

Patient Information  
 Reporter Information  
 Facility Information  
 Vaccine Information  
 Additional Information

**VAERS**

Click to preview VAERS form

**Note:** Fields marked with an \* are essential and should be completed.

**Item 1**

Patient first name:  Patient last name:

Street address:

City:  State:  County:

Zip code:  Phone:  Email:

**Item 2**

\* Date of birth  mm/dd/yyyy or  mm/yyyy

**Item 3**

\* Sex:  
 Male  Female  Unknown

**Item 4**

\* Date of vaccination  mm/dd/yyyy or  mm/yyyy

Time:   AM  PM

**Item 5**

\* Date adverse event started  mm/dd/yyyy or  mm/yyyy

Time:

12

Submitting  
a report to  
VAERS:  
Writable  
PDF

**INFORMATION ABOUT THE PATIENT WHO RECEIVED THE VACCINE** (Use Continuation Page if needed)

1. Patient name: (first) \_\_\_\_\_ (last) \_\_\_\_\_  
Street address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ County: \_\_\_\_\_  
ZIP code: \_\_\_\_\_ Phone: ( ) \_\_\_\_\_ Email: \_\_\_\_\_

2. Date of birth: (mm/dd/yyyy) \_\_\_\_\_ 3. Sex:  Male  Female  Unknown

4. Date and time of vaccination: (mm/dd/yyyy) \_\_\_\_\_ Time: hh:mm \_\_\_\_\_  AM  PM

5. Date and time adverse event started: (mm/dd/yyyy) \_\_\_\_\_ Time: hh:mm \_\_\_\_\_  AM  PM

6. Age at vaccination: \_\_\_\_\_ Years \_\_\_\_\_ Months 7. Today's date: (mm/dd/yyyy) \_\_\_\_\_

8. Pregnant at time of vaccination?:  Yes  No  Unknown  
(If yes, describe the event, any pregnancy complications, and estimated due date if known in item 18)

9. Prescriptions, over-the-counter medications, dietary supplements, or herbal remedies being taken at the time of vaccination: \_\_\_\_\_

10. Allergies to medications, food, or other products: \_\_\_\_\_

11. Other illnesses at the time of vaccination and up to one month prior: \_\_\_\_\_

12. Chronic or long-standing health conditions: \_\_\_\_\_

**INFORMATION ABOUT THE PERSON COMPLETING THIS FORM**

13. Form completed by: (name) \_\_\_\_\_  
Relation to patient:  Healthcare professional/staff  Patient (yourself)  
 Parent/guardian/caregiver  Other: \_\_\_\_\_  
Street address: \_\_\_\_\_  Check if same as item 1  
City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP code: \_\_\_\_\_  
Phone: ( ) \_\_\_\_\_ Email: \_\_\_\_\_

14. Best doctor/healthcare professional to contact about the adverse event: Name: \_\_\_\_\_  
Phone: ( ) \_\_\_\_\_ Ext: \_\_\_\_\_

**INFORMATION ABOUT THE FACILITY WHERE VACCINE WAS GIVEN**

15. Facility/clinic name: \_\_\_\_\_  
Fax: ( ) \_\_\_\_\_  
Street address: \_\_\_\_\_  Check if same as item 13  
City: \_\_\_\_\_  
State: \_\_\_\_\_ ZIP code: \_\_\_\_\_  
Phone: ( ) \_\_\_\_\_

16. Type of facility: (Check one)  
 Doctor's office, urgent care, or hospital  
 Pharmacy or store  
 Workplace clinic  
 Public health clinic  
 Nursing home or senior living facility  
 School or student health clinic  
 Other: \_\_\_\_\_  
 Unknown

**WHICH VACCINES WERE GIVEN? WHAT HAPPENED TO THE PATIENT?**

Vaccine (type and brand name)	Manufacturer	Lot number	Route	Body site	Dose number in series
select		▼	select	select	select
select		▼	select	select	select
select		▼	select	select	select
select		▼	select	select	select

17. Enter all vaccines given on the date listed in item 4: (Route is HOW vaccine was given, Body site is WHERE vaccine was given) Use Continuation Page if needed

18. Describe the adverse event(s), treatment, and outcome(s), if any: (symptoms, signs, time course, etc.)  
\_\_\_\_\_  
Use Continuation Page if needed

19. Medical tests and laboratory results related to the adverse event(s): (include dates)  
\_\_\_\_\_  
Use Continuation Page if needed

20. Has the patient recovered from the adverse event(s)?:  Yes  No  Unknown

21. Result or outcome of adverse event(s): (Check all that apply)  
 Doctor or other healthcare professional office/clinic visit  
 Emergency room/department or urgent care  
 Hospitalization: Number of days (if known) \_\_\_\_\_  
Hospital name: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_  
 Prolongation of existing hospitalization (vaccine received during existing hospitalization)  
 Life threatening illness (immediate risk of death from the event)  
 Disability or permanent damage  
 Patient died - Date of death: (mm/dd/yyyy) \_\_\_\_\_  
 Congenital anomaly or birth defect  
 None of the above

# Anyone Can Report to VAERS

Everyone is encouraged to report possible adverse events after vaccination to VAERS, even if they are not sure whether the vaccine caused the problem.

**In general, you should report any side effect or health problem after vaccination that is concerning you.**



# Vaccine Administration Errors

## Strongly Encouraged vs Required

- Healthcare providers are **strongly encouraged** to report all vaccine administration errors.
- Health care providers are **required** to report all vaccine administration errors for:
  - COVID-19 vaccines given under Emergency Use Authorization (EUA)
  - Jynneos (Mpox vaccine) or ACAM2000 (smallpox vaccine)



To report an adverse event after Beyfortus (Nirsevimab)\*

If Nirsevimab was given at the same visit with one or more vaccinations:

Report to VAERS at [VAERS - Report an Adverse Event \(hhs.gov\)](https://vaers.hhs.gov)

If Nirsevimab was given alone with no other vaccinations on the same visit:

Report to MedWatch at [MedWatch Online Voluntary Reporting Form \(fda.gov\)](https://www.fda.gov/medwatch)

\* Beyfortus (Nirsevimab) is not a vaccine. It is a monoclonal antibody given by injection and used in newborns, infants, and young children to protect them from respiratory syncytial virus (RSV). It may be given at the same time that vaccinations are given.



## For Assistance

Oregon Immunization Program

Help Desk

1 (800) 980-9431

[VFC.help@odhsoha.oregon.gov](mailto:VFC.help@odhsoha.oregon.gov)

Jill Johnson, RN BSN MEM

Clinical Vaccine Specialist

(971) 378-5691

[jill.m.johnson2@oha.oregon.gov](mailto:jill.m.johnson2@oha.oregon.gov)

## References

- [Vaccine Safety Information \(CDC\)](#)
- [How to Report Adverse Events to VAERS \(CDC\)](#)
- [VAERS Table of Reportable Events Following Vaccination \(VAERS\)](#)
- [MedWatch: The FDA Safety Information and Adverse Event Reporting System \(FDA\)](#)
- [MedWatch Online Voluntary Reporting Form \(FDA\)](#)
- [Model Immunization Protocols \(Oregon Immunization Program\)](#)