

Texas 2025 Measles Outbreak

February 24, 2025

Welcome and Opening Remarks

Imelda Garcia, MPH

Chief Deputy Commissioner

Texas Department of State Health Services

Discussion Topics

- Welcome and Opening Remarks
- Measles Situational Update
- Measles Lab Testing
- Infection Control Precautions
- MMR Vaccine Recommendations
- Communications
- Resources
- Q&A
- Closing Remarks

Measles Situational Update

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Texas Department of State Health Services



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DISCLAIMER

The information presented today is based current preliminary data and on CDC's recent guidance. Information is subject to change.

February 24, 2025

Measles

- Measles is highly contagious.
- If one person has it, up to 9 out of 10 people will become infected if they are not protected.
- Anyone who is not protected against measles is at risk
- The best protection against measles is measles, mumps, and rubella (MMR) vaccine.
 - MMR vaccine provides long-lasting protection against all strains of measles.
- Measles can cause serious health complications, especially in children younger than 5 years of age, pregnant women, and people who are immunocompromised.

Measles Complications

- Common complications from measles include otitis media, bronchopneumonia, laryngotracheobronchitis, and diarrhea.
- Even in previously healthy children, measles can cause serious illness requiring hospitalization.
- 1 out of every 1,000 measles cases will develop acute encephalitis, which often results in permanent brain damage.
- 1 to 3 out of every 1,000 children who become infected with measles will die from respiratory and neurologic complications.
- Subacute sclerosing panencephalitis (SSPE) is a rare, but fatal degenerative disease of the central nervous system characterized by:
 - Behavioral and intellectual deterioration.
 - Seizures that generally develop 7 to 10 years after measles infection.

Measles Clinical Features

- Incubation period 11 to 12 days
 - Exposure to rash onset averages 14 days (range 7-21 days)
- Prodrome lasts 2 to 4 days (range 1-7 days)
 - Stepwise increase in fever to 103-105°F
 - Cough, coryza, and conjunctivitis (three "C"s)
 - Koplik spots (on mucous membranes)
- Rash
 - Persists 5 to 6 days
 - Begins at the hairline, then involves the face and upper neck
 - Proceeds downward and outward to hands and feet
 - Severe areas peel off in scales
 - Fades in order of appearance

Measles Clinical Presentation



Koplik spots



Measles rash on the forehead

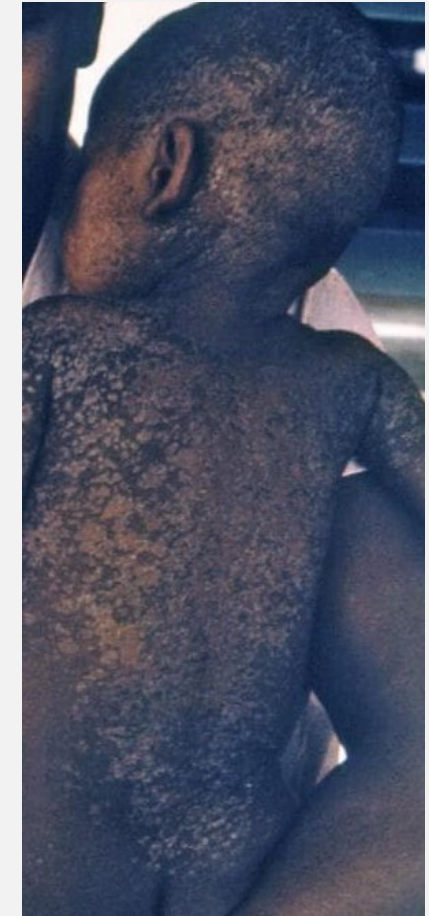
Measles Clinical Presentation



Maculopapular rash on cheek



Child with classic measles rash



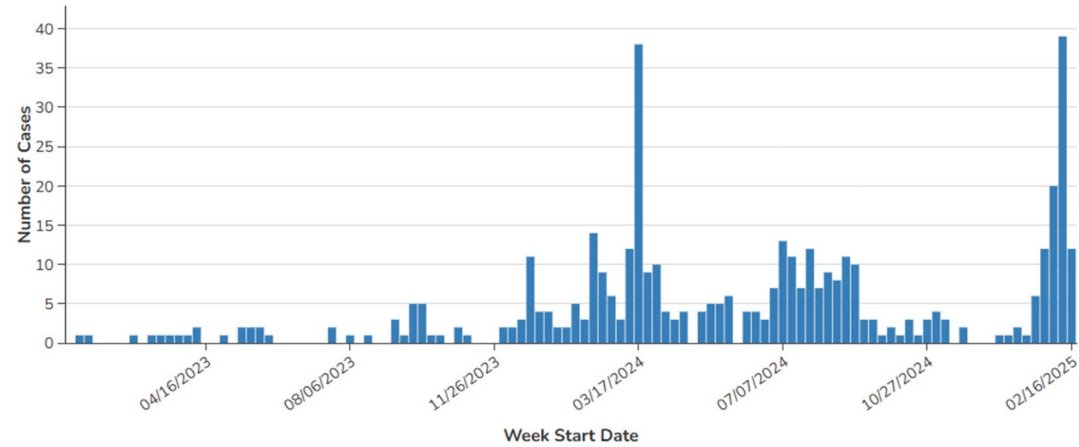
Skin sloughing off of a child healing from measles infection

Measles Cases and Outbreaks in the U.S. At-A-Glance

Available: [Measles Cases and Outbreaks | Measles \(Rubeola\) | CDC](#), accessed 2/22/2025

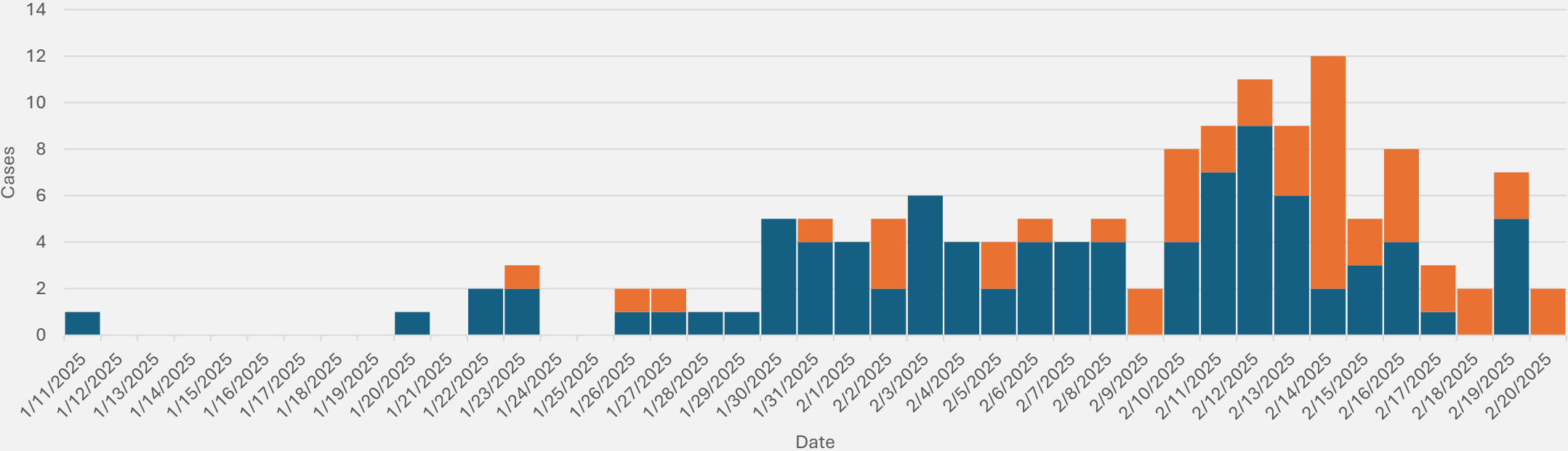
Weekly measles cases by rash onset date

2023–2025* (as of February 20, 2025)



Texas Measles Confirmed and Suspect Cases (as of February 20, 2025)		
Confirmed	Suspect	Total
90 (65%)	48 (35%)	138

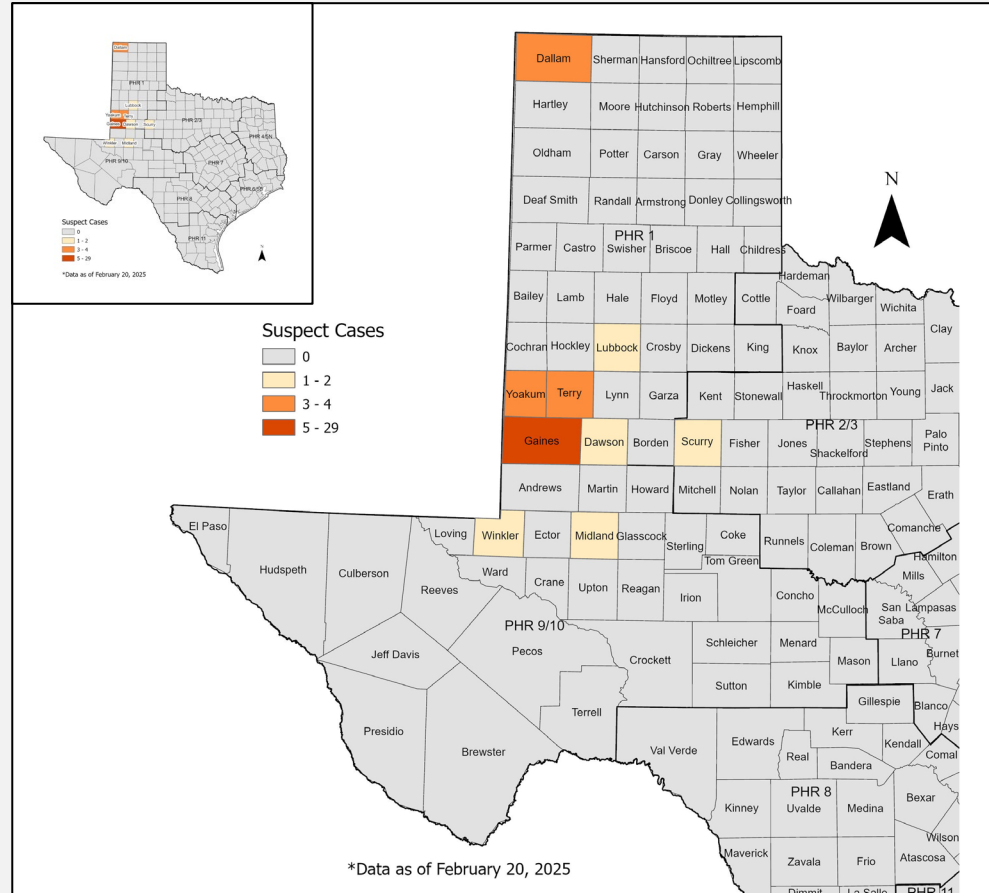
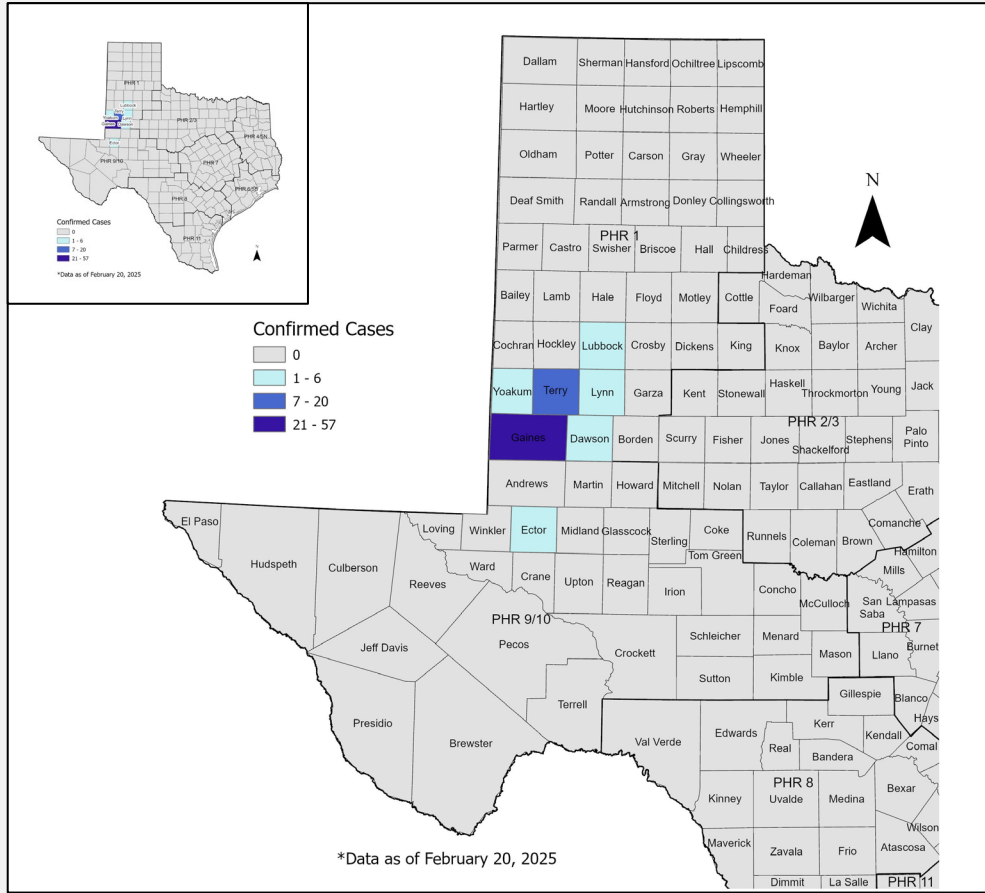
Texas 2025 Measles Outbreak Epi Curve (2/20/2025)



Data based on the following hierarchy according to available data: rash onset date, symptom onset date, specimen collection date, hospital admission date, or date reported to the region.

■ Confirmed ■ Suspected

Texas Counties with Confirm and Suspect Measles Cases (2/20/2025)



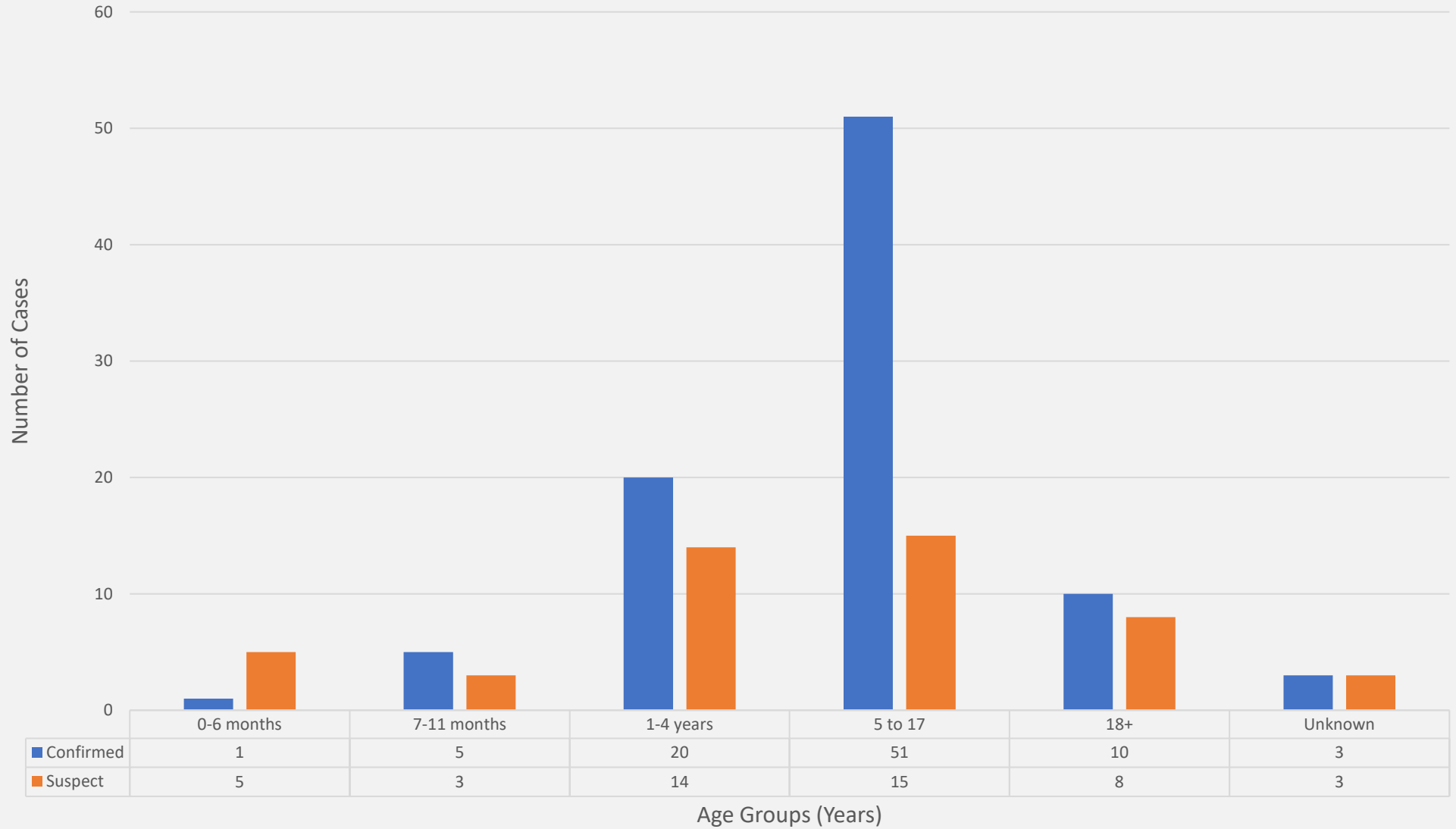
County	Confirmed Cases	Suspect Cases
	n	n
Dallam	0	4
Dawson	6	1
Gaines	57	29
Lubbock	1	1
Lynn	1	0
Terry	20	4
Yoakum	4	4
Scurry	0	1
Ector	1	0
Midland	0	2
Winkler	0	1
Unknown	0	1
Total	90	48

Texas Measles Cases, 2025



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Texas 2025 Measles Case Status by Age Groups

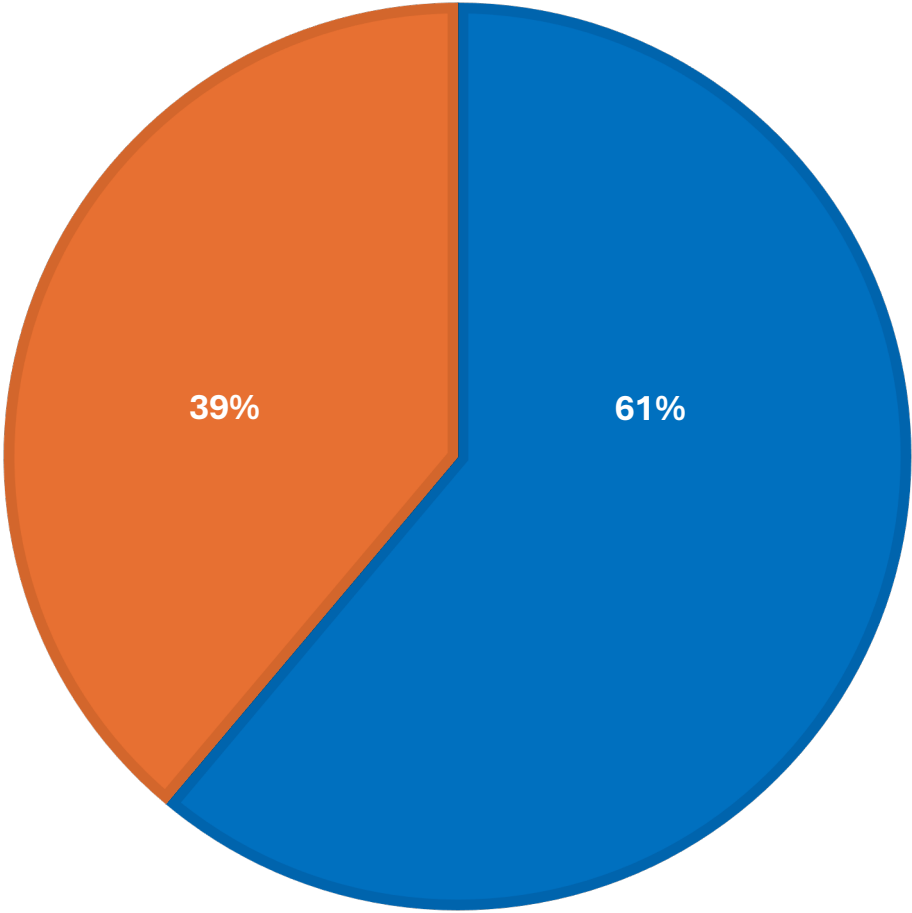


Confirmed Suspect

Texas Measles Cases, 2025

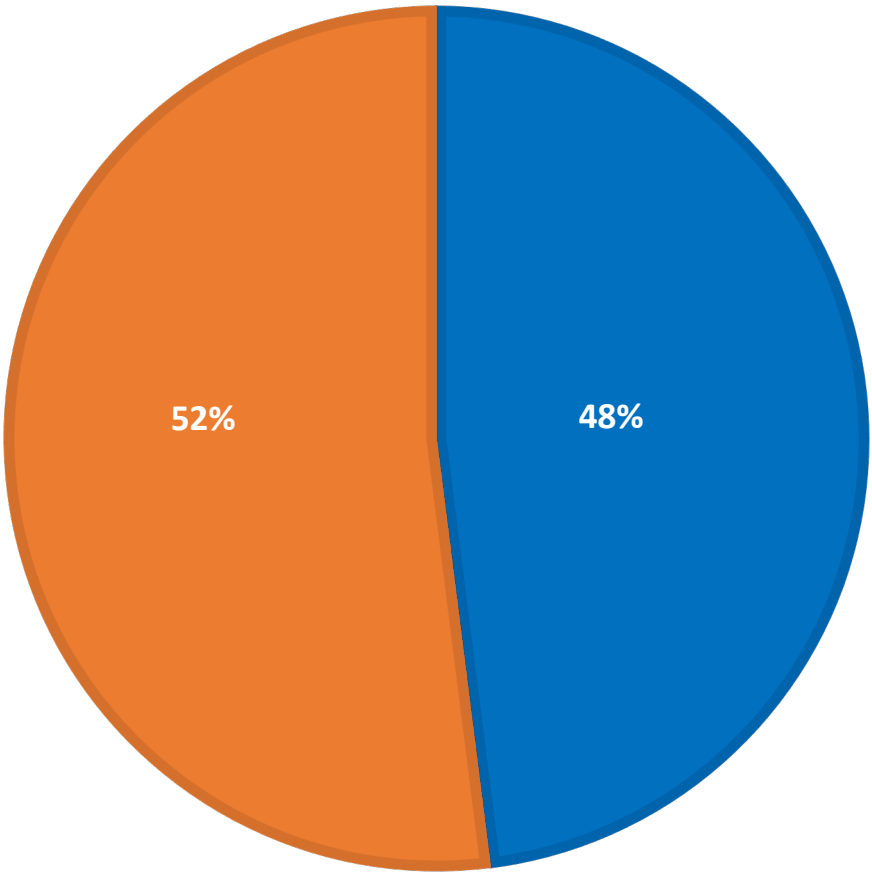
TEXAS CONFIRM MEASLES CASES BY SEX (N=90)

■ Female ■ Male



TEXAS SUSPECT MEASLES CASES BY SEX (N=48)

■ Female ■ Male



Texas Measles Cases, 2025

Hospitalized¹ Confirmed Cases by Age Groups

Age Groups (Years)	Hospitalized	ICU Admission	ED Only	Not Hospitalized	Unknown	Total
	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)
0-6 months	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)	1 (1)
7-11 months	2 (13)	0 (0)	0 (0)	1 (2)	2 (8)	5 (6)
1-4 years	5 (31)	0 (0)	0 (0)	10 (23)	5 (19)	20 (22)
5 to 17	7 (44)	1 (100)	2 (67)	26 (59)	15 (58)	51 (57)
18+	0 (0)	0 (0)	1 (33)	5 (11)	4 (15)	10 (11)
Unknown	1 (6)	0 (0)	0 (0)	2 (5)	0 (0)	3 (3)
Total	16	1	3	44	26	90

¹Hospitalization status indicates if the case was ever an inpatient



Measles Lab Testing

Diana Martinez, PhD, MPH

Deputy State Epidemiologist

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When & How to Test Persons Exposed to Measles

- For any person exposed to a confirmed case of measles who develops measles-compatible symptoms within **1 to 21 days after exposure**, coordinate measles testing with your local health department ***immediately***.
- Your local health department will provide guidance for specimen collection, storage, and shipping including required specimen submission form completion, materials to be used in collection and storage, and proper shipping procedure (temperature, delivery date, method, etc.).



Measles Testing Reminders

- RT-PCR testing at the DSHS State Public Health Laboratory is **preferred**.
 - IgM testing is confirmatory *if not otherwise ruled out by other confirmatory testing, such as PCR, or more specific measles testing in a public health laboratory*
- *Note: If a specimen is collected too early in disease progression, it might result in a false negative. For those persons who receive a negative result, please follow up with them a few days later to see if they have experienced worsening symptoms and to determine if additional testing is needed.*
 - Work with your local health department to determine if additional testing is needed based on symptomology and disease progression.

Negative Test Results

- Do not rely solely on the lab result
 - If symptoms are compatible with measles and the patient has other high-risk factors (e.g., not vaccinated, recent travel to outbreak areas, sick contacts, etc.), contact local health department and submit a second specimen for RT-PCR testing at the DSHS Laboratory

Where to Test Suspect Measles Cases

- The DSHS State Public Health Laboratory in Austin, TX is preferred for measles testing
 - RT-PCR result turnaround time is in average 24 to 48 hours
 - Submitter receives results via the method of their choice
- Commercial labs
 - Associated with hospitals, private practices, urgent care centers
 - Usually perform IgG and/or IgM serology only
 - Some may perform measles PCR testing, although uncommon
 - Longer result turnaround time, usually with an average of 5-7 days



Testing at the DSHS Laboratory

- Use **unexpired**, appropriate collection materials (swabs, viral transport media (VTM)) prior to specimen collection.
- Review the Measles Viral Specimen Collection – RT-PCR testing protocol that is available on the DSHS Laboratory Services website
- Review the required DSHS Lab G-2V form before shipment to ensure accuracy and completeness.
- Talk with your local health department if Saturday or holiday testing is needed and ensure packaging is properly labeled, if approved.
- Use plenty of ice packs when shipping specimens to ensure they arrive at the DSHS Laboratory in Austin at the appropriate temperature.

The screenshot shows the DSHS Laboratory Services website page for Measles testing. The page includes a navigation bar with links for ENG, Programs, A-Z Index, News & Alerts, Legislative Information, and Contact Us. The main content area is titled "Measles" and features a "Get in Touch" section with contact information for email, phone, and fax. Below this, there are links for "Specimen Collection Procedures" and "Laboratory Fee Schedule". The "Measles (Rubeola) Real-Time RT-PCR" section includes a table with the following information:

Synonym(s):	Measles (Rubeola) PCR
Requisition Form	G-2V

Measles Testing Reminders

- Collected specimen swabs from the throat (preferred) or nasopharyngeal (NP)
- Swabs for RT-PCR are most effective at detecting active infection towards beginning of rash onset
 - 1-7 days after rash onset
 - May be able to detect virus up to 14 days after rash onset, but becomes less reliable the further away from rash onset a specimen is collected
- Specimens must:
 - Be collected using non-expired swab materials and placed in unexpired viral transport media (VTM)
 - Have two patient identifiers on the G2V lab submission form and collection tube
 - Both patient identifiers must match exactly; one identifier must be the first and last name of the patient
 - Arrive at the laboratory at the proper temperature
 - If specimens are shipped the same day of collection and will arrive at the laboratory the next morning, ship at 4°C/39.2°F (boxed within ice packs)
 - If specimens will be stored and shipped after the date of collection, freeze at -70°C/-94°F (boxed with dry ice)

It is recommended to have viral testing kits and be a DSHS lab submitter prior to submission!

Infection Control Precautions

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Healthcare Safety Unit

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Texas Department of State Health Services



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Healthcare exposures

- Healthcare workers are at higher risk for measles acquisition than the general population, as patients with measles often seek medical care for their symptoms
- Healthcare exposure occurs when spending any amount of time while not wearing recommended respiratory protection (N95 respirator):
 - In a shared air space with an infectious measles patient at the same time, or
 - In a shared air space vacated by an infectious measles patient for up to two (2) hours
- An airspace can be a small space in a healthcare facility (e.g., patient compartment of an ambulance, a single patient room, or a clinic waiting area) OR a large space (e.g., different areas in a large emergency department that share a common unfiltered air source).



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Available at: <https://www.cdc.gov/infection-control/hcp/healthcare-personnel-epidemiology-control/measles.html> and <https://www.cdc.gov/infection-control/hcp/measles/appendix-a.html> ; accessed 02/25/25.

Preventing healthcare exposures

Ensure healthcare workers have presumptive evidence of immunity

Exclude potentially infectious healthcare workers

Educate healthcare workers on recognition, triage, diagnosis, and management of measles cases



Healthcare worker immunity status

- Presumptive evidence of measles immunity should be documented
 - Documentation of vaccination with 2 doses of measles virus-containing vaccine; OR
 - Laboratory evidence of immunity; OR
 - Laboratory confirmation of disease; OR
 - Birth before 1957
- Only those with documented immunity should care for suspected or confirmed measles patients



Healthcare worker exclusion

- Symptomatic/known or suspected measles case
 - Exclude for 4 days after rash appears
 - Immunocompromised workers should be excluded for the duration of illness
- Exposed/asymptomatic without presumptive immunity
 - Exclude from 5th day after first exposure through 21st day after last exposure



Necessary supplies

NIOSH-certified
disposable N95
respirator

Surgical masks

Signage

Tissues

Disinfectants

Hand hygiene
supplies



Scheduling appointments

- Screen callers for measles signs, symptoms, and exposure history
- Provide instructions for arrival
 - Which entrance to use
 - What precautions to take (e.g., wear a surgical mask, follow screening procedures)
- Schedule suspected or confirmed patients at the end of the day, if feasible



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Patient placement

Identify entrance that minimizes facility exposure

- Immediately screen patients for measles signs, symptoms, and exposure history
- Ask suspected or confirmed measles patients to wear a surgical mask and educate them on appropriate use

Identify where to place suspected or confirmed patients

- Airborne infection isolation room (AIIR)
- If an AIIR is not available, the patient should be placed in a private room with the door closed and be asked to wear a mask at all times, even when alone in the patient's room
- Room should remain vacant for 2 hours after patient departure




Patient care

- Use standard and airborne precautions
- Healthcare workers should wear fit-tested N95 respirators or higher-level respirators
- Limit patient movement







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STOP AIRBORNE PRECAUTIONS STOP

EVERYONE MUST:

-  Clean their hands, including before entering and when leaving the room.
-  Put on a fit-tested N-95 or higher level respirator before room entry.
-  Remove respirator after exiting the room and closing the door.
- Door to room must remain closed.



U.S. Department of Health and Human Services
Centers for Disease Control and Prevention

Available at: <https://www.cdc.gov/infection-control/hcp/measles> and <https://www.cdc.gov/infection-control/media/pdfs/airborne-precautions-sign-P.pdf> ; accessed 02/25/25.

Managing Healthcare Exposures

1. Determine when airborne precautions began and patient was masked

2. Identify patients and healthcare workers who shared airspace with the infectious measles patient

3. Determine susceptibility of those exposed

- Confirm immunity status and if immunocompromised

4. Implement post-exposure prophylaxis, work restrictions and symptom monitoring recommendations



Reporting Healthcare Exposure Data

- Healthcare facilities should report healthcare exposure data to local health departments and PHRs daily
- DSHS can provide tracking logs to summarize healthcare exposure data



MMR Vaccine Recommendation

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Measles, Mumps, Rubella (MMR) Vaccine

- MMR vaccine = Measles, Mumps, and Rubella combination vaccine
- Centers for Disease Control and Prevention recommends that people get MMR vaccine to protect against measles, mumps, and rubella.
- All children should get two doses of MMR vaccine*
 - First dose at 12 to 15 months of age, and
 - Second dose at 4 through 6 years of age.
- Teens and adults should also be up to date on their MMR vaccination.
- MMR vaccine is highly effective in preventing measles.**
 - First vaccine effectiveness of 93% when administered on or after age 12 months and
 - Second-dose vaccine effectiveness of 97%.

*Available: [Measles, Mumps, and Rubella \(MMR\) Vaccination | CDC](#), accessed 2/22/2025

**Available: [MMWR Immunization ACIP](#), accessed 2/22/2025

Outbreak MMR Vaccination Recommendations for **Gaines County Only**

DSHS advises clinicians to follow the below measles immunization recommendations for the **residents of Gaines County.**

- Infants ages 6 to 11 months:
 - Administer an **early dose** of measles, mumps, and rubella (MMR) vaccine.
 - Follow the CDC's recommended schedule and get:
 - Another dose at 12 through 15 months.
 - A final dose at 4 through 6 years.
- Children over 12 months old:
 - If the child has not been vaccinated, administer one dose immediately and follow with a second dose at least 28 days after the first.
 - If the child has received one dose, administer the second dose as soon as possible, at least 28 days after the first.
- Teen and adults with no evidence of immunity:
 - Administer one dose immediately and follow with a second dose at least 28 days after the first.

MMR Vaccine

- MMR vaccine available
 - **M-M-R[®] II**, manufactured by Merck
 - FDA approved since 1978
 - Package Insert - M-M-R[®] II

MEASLES, MUMPS, AND RUBELLA VIRUS VACCINE LIVE
M-M-R[®] II

NDC 0006-4681-00
10 Single-dose 0.5-mL vials

Measles vaccine: More Attenuated Enders' Strain. Chick cell tissue culture origin.
Mumps vaccine: Jeryl Lynn™ Strain. Chick cell tissue culture origin.
Rubella vaccine: Wistar RA 27/3 Strain. Human diploid cell (WI-38) culture origin.
Contains approximately 25 mcg neomycin per dose.
Contains no preservative.
Rx only

A

1 Single-dose 0.5-mL VIAL
MEASLES, MUMPS &
RUBELLA VIRUS VACCINE
M-M-R[®] II
Manufactured and Distributed by
Merck Sharp & Dohme Corp.
a subsidiary of
MERCK & CO., INC.
Kenilworth, NJ 07033

STERILE DILUENT
FOR MERCK SHARP & DOHME CORP.
LIVE VIRUS VACCINES
(Sterile Water)

NDC 0006-4309-00
10 Single-Dose
0.7-mL Vials

CONTAINS NO PRESERVATIVE
This carton contains 10 diluent-containing vials. Use one diluent vial
for reconstitution of one single-dose vial of live virus vaccine.
Rx only

B

1 Single-Dose 0.7 mL VIAL
STERILE DILUENT
FOR MERCK SHARP & DOHME CORP.
LIVE VIRUS VACCINES
(Sterile Water)
Rx only
CONTAINS NO
PRESERVATIVE

Postexposure Prophylaxis

MMR Vaccine & Immunoglobulin (IG)

- Presumptive evidence of measles immunity should be assessed for all identified contacts.
- Use of postexposure prophylaxis (PEP), available either in the form of MMR vaccine or immunoglobulin (IG), may prevent or modify the clinical course of disease among susceptible persons.
- PEP effectiveness appears to depend on the timing of PEP administration and the nature of exposure.
- Individuals who receive PEP should be monitored for signs and symptoms consistent with measles for at least one incubation period.

Use of MMR Vaccine as Postexposure Prophylaxis

- The MMR vaccine, if administered within 72 hours of initial measles exposure, may provide some protection or modify the clinical course of disease among susceptible persons who otherwise have no contraindications to MMR vaccination (e.g., severe immunocompromise, age < 6 months, pregnancy).
- **However, vaccination should be offered at any interval following exposure to offer protection from future exposures.**
- All doses of live vaccine should be separated by 28 days or more.
 - If a live vaccine other than MMR (e.g., varicella) was received within the 28 days prior to need for PEP, the risks and benefits of MMR vaccination should be weighed.
- Except in health care settings, susceptible persons who receive a dose of MMR as PEP within 72 hours of initial measles exposure may return to childcare, school, or work.
- Any susceptible contact under 12 months of age who receives MMR vaccination should be revaccinated according to the routine pediatric schedule
 - Two additional doses with the first between 12–15 months of age
 - All doses of MMR must be separated by at least 28 days.

Use of Immunoglobulin (IG) for Postexposure Prophylaxis (PEP)

- IG, if administered within 6 days of initial measles exposure, may provide some protection against measles or modify the clinical course of disease among susceptible persons.
- IG is the only option for PEP for populations which cannot receive MMR vaccine:
 - Infants < 6 months of age,
 - Severely immunocompromised people, and
 - Pregnant women.
- IG PEP can be given to susceptible infants aged 0–12 months.
- However, MMR vaccine is preferred per AAP guidance if received within 72 hours of exposure for infants aged 6-12 months.
- IG PEP should be provided to severely immunocompromised contacts regardless of prior measles vaccination status due to the risk for severe disease.

Use of MMR Vaccine & IG as PEP

Summary

- Use of IG is meant to prevent or ameliorate the severity of measles in those individuals at high risk, not as a form of outbreak control.

Summary of Measles Postexposure Prophylaxis		
Risk Population	Time from First Exposure	
	< 72 hours	Through 6 days
Infant < 6 months old	IG	IG
Infant 6 through 12 months	IG Or MMR vaccine preferred	IG
Age > 12 months, no risk factor	MMR vaccine dose 1 or MMR vaccine dose 2, if ≥ 28 days from MMR dose 1	
Pregnant woman	IG	IG
Severely immunocompromised	IG	IG

Healthcare Personnel

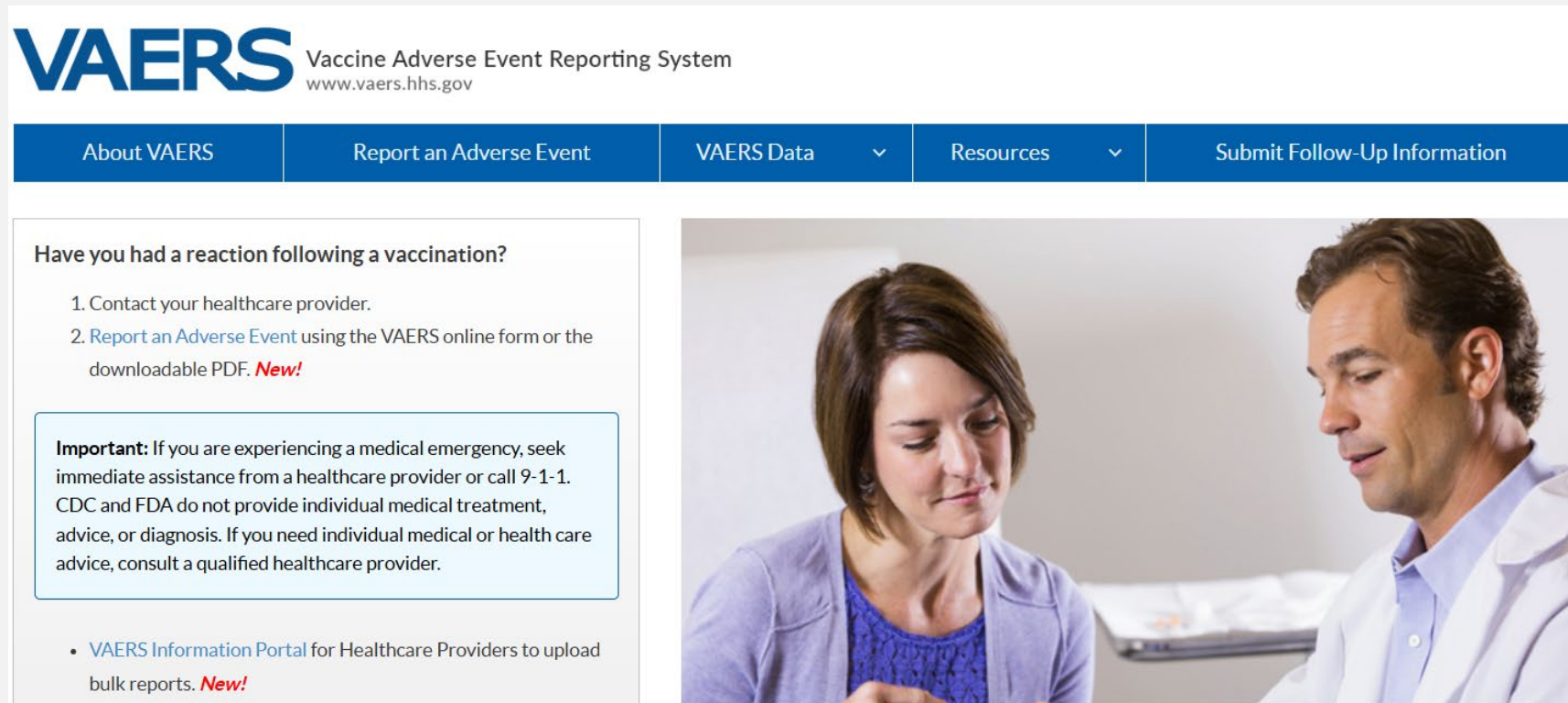
- For healthcare personnel with known or suspected measles, exclude from work for 4 days after the rash appears.
- For immunocompromised healthcare personnel with known or suspected measles, exclude from work for the duration of their illness.
- During an outbreak of measles, health-care facilities should recommend 2 doses of MMR vaccine at the appropriate interval for unvaccinated health-care personnel (HCP) regardless of birth year who lack laboratory evidence of measles immunity or laboratory confirmation of disease.
- For asymptomatic healthcare personnel **with** presumptive evidence of immunity to measles who have an exposure to measles:
 - Postexposure prophylaxis is not necessary.
 - Work restrictions are not necessary.
 - Implement daily monitoring for signs and symptoms of measles from the 5th day after their first exposure through the 21st day after their last exposure.

Healthcare Personnel

- For asymptomatic healthcare personnel **without** presumptive evidence of immunity to measles who have an exposure to measles:
 - Two doses of MMR vaccine, separated by at least 28 days.
 - Exclude from work from the 5th day after their first exposure through the 21st day after their last exposure, **regardless of receipt of PEP.**
- Work restrictions are not necessary for healthcare personnel who received the first dose of MMR **vaccine prior to exposure:**
 - They should receive their second dose of MMR vaccine as soon as possible (at least 28 days after their first dose).
 - Implement daily monitoring for signs and symptoms of measles from the 5th day after their first exposure through the 21st day after their last exposure.

VAERS (Vaccine Adverse Event Reporting System)

- Report any adverse event that may occur after administering a vaccine dose to [Vaccine Adverse Event Reporting System \(VAERS\)](#)



The screenshot shows the VAERS website homepage. At the top left is the VAERS logo and the text "Vaccine Adverse Event Reporting System" with the URL "www.vaers.hhs.gov". Below this is a navigation bar with five items: "About VAERS", "Report an Adverse Event", "VAERS Data" (with a dropdown arrow), "Resources" (with a dropdown arrow), and "Submit Follow-Up Information". The main content area is divided into two columns. The left column contains a section titled "Have you had a reaction following a vaccination?" with two numbered steps: "1. Contact your healthcare provider." and "2. Report an Adverse Event using the VAERS online form or the downloadable PDF. *New!*". Below this is a light blue box with an "Important:" notice: "If you are experiencing a medical emergency, seek immediate assistance from a healthcare provider or call 9-1-1. CDC and FDA do not provide individual medical treatment, advice, or diagnosis. If you need individual medical or health care advice, consult a qualified healthcare provider." At the bottom of the left column is a bullet point: "• [VAERS Information Portal](#) for Healthcare Providers to upload bulk reports. *New!*". The right column features a photograph of a female patient in a blue top and a male healthcare provider in a white lab coat, both looking down at a document or device.

DSHS Immunization Program Contact

For general immunization related questions, please contact Immunization.Info@dshs.texas.gov

Communications & Media Relations

Lara Anton

Senior Press Officer

Texas Department of State Health Services



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- **Coordinating with local public health**
 - To gain local perspective and understand what is most effective for their communities
- **Coordinating with CDC to develop materials for use around the state**
 - Distributed guidance to public school nurses and daycares to encourage immunization
 - Posted on Nextdoor
 - Created radio PSAs (Low German, Spanish, English)
 - Content for static and digital billboards (in development)
 - Exploring other materials and distribution tactics in PHR 1 (in development)

Measles is a serious illness.

1 out of 5 people who get measles will be hospitalized.

Keep your family and community safe by getting vaccinated.



WHEN

**7 days a week
10 a.m. – 4 p.m.**

WHERE

**Seminole Public Health
704 Hobbs Highway, Seminole**

The vaccine is free to everyone.



**South Plains Public Health District
432-955-1021
24-Hour Hotline: 800-360-6510**

Communications & Media Relations

News

NEWS UPDATES

February 18, 2025

Measles Outbreak– Feb. 18, 2025

The Texas Department of State Health Services is reporting an outbreak of measles in the South

HEALTH ALERT

February 5, 2025

Health Alert: Measles Outbreak in Gaines County, Texas

The Texas Department of State Health Services (DSHS) is reporting an outbreak of measles

NEWS RELEASE

January 30, 2025

State health officials urge vigilance as additional measles cases are identified

The Texas Department of State Health Services is announcing two confirmed cases of measles in

HEALTH ALERT

January 23, 2025

Confirmed Case of Measles - January 2025

The Texas Department of State Health Services (DSHS) is reporting two confirmed cases of measles in

- **DSHS Website**

- Measles page updated with outbreak information, helpful resources
- News updates, news releases, health alerts
 - News update includes links to data on school immunization coverage and exemptions

- **Consistency**

- Bolster trust in public health and motivate action through consistent messaging across public health and across media

Resources



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Resources

- The CDC. Classification of Measles Cases and Categorization of Measles Elimination Programs.
<https://www.cdc.gov/mmwr/preview/mmwrhtml/00001225.htm>
- The CDC. Routine Measles, Mumps, and Rubella Vaccination.
<https://www.cdc.gov/vaccines/vpd/mmr/hcp/recommendations.html>
- The DSHS Emerging and Acute Infectious Disease Guidelines (EAIDG) 2024.
<https://www.dshs.texas.gov/sites/default/files/IDCU/investigation/electronic/EAIDG/2024/EAIDG2024.pdf>
- The DSHS Measles/Rubella Case Track Record Form.
<https://www.dshs.texas.gov/sites/default/files/IDCU/investigation/forms/Measles-Rubella2.pdf>
- [Measles Vaccination | Measles \(Rubeola\) | CDC](#)
- [Prevention of Measles, Rubella, Congenital Rubella Syndrome, and Mumps, 2013](#)
- [Measles Q&A CDC](#)

Q&A



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Closing Remarks

Imelda Garcia, MPH

Chief Deputy Commissioner

Texas Department of State Health Services



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Thank You