



KENTUCKY HEALTH ALERT

Measles Identified in Kentucky: Recommendations for Identification and Prevention

August 13, 2026

The Kentucky Department for Public Health (KDPH) is notifying providers that a confirmed measles case has been identified in Christian County, Kentucky. KDPH has a high index of suspicion that the measles virus may be circulating in several close-knit communities with low vaccination coverage and that there are likely more cases than have been confirmed.

Health care providers should consider measles in any patient that presents with compatible symptoms and contact the patient's local health department as soon as measles is suspected.

KDPH is working with local health departments to identify exposed individuals, though not all possible exposure sites may be known. These cases occur amidst the worst measles outbreak in more than three decades in the U.S., resulting in more than [2,465 confirmed cases](#) this year, including several large ongoing outbreaks in [Pennsylvania](#) and [Virginia](#), primarily affecting members of under-vaccinated close-knit communities.

Summary and Action Items

- **Be alert for signs and symptoms of measles**, particularly among people who have not received two doses of measles-containing vaccine and people who reside in close-knit communities that are commonly under-vaccinated. Healthcare providers should also consider outreach to patients who are eligible for measles, mumps, and rubella (MMR) vaccination to encourage routine immunization in accordance with the [American Academy of Pediatrics](#) (AAP).
- **Collect risk factor information to assess possible exposures to measles** for patients with febrile rash illness, including detailed travel history (international or to areas of the U.S. with ongoing measles outbreaks) and contact to members of under-vaccinated close-knit communities.
- **Measles is a reportable disease requiring urgent notification. Do not wait for a positive result to initiate contact with public health.** If measles is suspected, healthcare facilities should implement appropriate infection prevention and control measures and report any case, suspected case or positive laboratory result via telephone to the [local public health department jurisdiction](#) in which the patient resides within 24 hours. If the local health department cannot be reached, contact 888-9-REPORT to reach the epidemiologist on-call at KDPH.



- **Measles virus testing is available at the KDPH Division of Laboratory Services (DLS)** for eligible clinical specimens upon approval. KDPH requests that providers send specimens for PCR testing of **all** suspect measles cases to DLS rather than to commercial labs, to avoid significant delays in public health response measures.
- **Routinely assess all patients for MMR vaccination needs.** Providers can use the [Kentucky Immunization Registry](#) to access and document patient immunization information.
- **Measles resources for healthcare providers and the public** can be found on the [KDPH measles website](#).

Background

Measles is a highly contagious viral respiratory illness. The virus is transmitted through airborne spread of droplet nuclei or direct contact with nasal or throat secretions of infected persons; infectious droplets can remain suspended in the air for up to two hours. The average incubation period for measles is 14 days, with a range of 7 to 21 days.

Measles is a vaccine-preventable disease. The measles vaccine is highly protective; one dose of MMR vaccine provides 93% protection against measles, and two doses provide 97% protection. KDPH encourages providers to recommend routine MMR vaccination in accordance with the [AAP recommended schedule](#).

Cases and outbreaks of measles continue to be identified globally and domestically, including several large ongoing measles outbreaks in Virginia and Pennsylvania. KDPH recommends two doses of the MMR vaccine for **all international travelers** who have not had measles in the past.

Two doses of MMR vaccine are required for kindergarten entry in Kentucky, unless a religious or medical exemption has been documented. [Recent estimates](#) indicate that MMR vaccine rates among kindergarten children in Kentucky have increased but remain among the lowest in the nation at only 91%. Under-vaccinated populations are often grouped geographically or socially, which can facilitate rapid spread through frequent contact with other under-vaccinated individuals.

Clinical Recognition

Measles is characterized by an initial prodrome that typically includes high fever, cough, coryza, and conjunctivitis, followed by the appearance of a maculopapular rash three to five days after symptoms begin. Communicability is greatest from four days *before* the onset of rash until four days *after* the onset of rash. The day of rash onset is considered day 0 when determining the infectious period.

Given known community exposures, suspicion for measles should be heightened among patients with clinically compatible measles symptoms who have not yet received



measles-containing vaccine, including those who may have postponed or missed doses. For additional clinical information for healthcare providers, please refer to the [measles chapter of the AAP Red Book](#).

Diagnostic Testing

The preferred confirmatory testing for measles is detection of RNA by real-time PCR (RT-PCR) in a respiratory specimen (throat or nasopharyngeal swabs). Clinical specimens for RT-PCR and virus isolation should be collected at the same time as samples for serologic testing. Detection of measles RNA by RT-PCR is most successful when samples are collected on the first day of rash through the 3 days following onset of rash but may be successful as late as 10 to 14 days post rash onset. When possible, urine specimens should also be collected for RT-PCR testing in addition to respiratory swabs. If a patient is suspicious for measles, contact the local health department or KDPH to submit specimens to [KDPH DLS](#) for testing.

Serologic testing for presence of measles IgM antibodies is available at many commercial laboratories and is also an acceptable mode of testing when paired with RT-PCR. However, **turnaround times for results may be delayed.**

Measles IgM tests are often positive on the day of rash onset. However, up to 20% of tests for IgM may give false-negative results in the first 72 hours of rash onset. Therefore, IgM tests that are negative in the first 72 hours after rash onset should be repeated when there is a high clinical index of suspicion for measles. IgM is detectable for at least 28 days after rash onset. Measles IgM testing should not be performed in persons who do not have clinical suspicion for measles due to the possibility of a false-positive result. **Healthcare providers should report suspected cases of measles to their local health department at the time they see the patient.**

Infection Prevention and Control

Persons with suspected or confirmed measles infection should be isolated for four days following the day of rash onset. Contacts who might be susceptible should be immunized with measles vaccine as soon as possible after exposure. Measles vaccine given within 72 hours after exposure may prevent or reduce the severity of disease. Immune globulin administered intramuscularly (IGIM) or intravenously (IGIV) can prevent or modify measles in a susceptible person if given within six days of exposure. IG may be especially indicated for susceptible household contacts under one year of age, pregnant women and immunocompromised persons, for whom the risk of complications is increased. The most common complications of measles include vomiting and diarrhea that lead to dehydration and sometimes necessitate hospitalization. The most serious complications include pneumonia, encephalitis/brain disfunction and pregnancy complications. Some serious complications of measles can occur over 10 years after recovery from acute illness.

To minimize the risk of measles transmission, healthcare personnel should do the following:

1. **Query patients with a febrile rash illness** about vaccination status, international travel, contact with international travelers, transit through an airport that receives international flights or possible exposure to a person with measles or a similar rash illness in the three weeks prior to symptom onset. Measles should be considered for patients with such a history and [symptoms consistent with measles](#), particularly in un- or under-immunized persons.
2. **Immediately isolate and provide a mask to patients with suspected measles.** Do not allow patients with suspected measles to remain in the waiting room or other common areas; isolate patients with suspected measles immediately in an airborne infection isolation room if one is available. If such a room is not available, place the patient in a private room with the door closed. Follow [AAP recommendations for infection control measures for measles](#). If possible, allow only healthcare personnel with documentation of two MMR vaccines or laboratory evidence of immunity to measles (i.e., measles IgG positive) to enter the patient's room.
3. **Wear an N95** or higher-level respirator regardless of presumptive evidence of immunity. A user seal check should be performed each time the respirator is worn.
4. **Do not use the examination room for at least two hours** after the infectious patient leaves.
5. If possible, **schedule patients with suspected measles at the end of the day.**
6. **Notify the [local health department](#)** in the jurisdiction the patient resides immediately by telephone about any patients with suspected measles. If the local health department cannot be reached, contact 888-9-REPORT to reach the Epidemiologist On-Call at KDPH.
7. **Notify any location where the patient is being referred** for additional clinical evaluation or laboratory testing about the patient's suspected measles status and do not refer patients with suspected measles to other locations unless appropriate infection control measures can be implemented at those locations. The patient must wear a mask, if feasible.
8. **Instruct patients with suspected measles to inform all healthcare providers of the possibility of measles** prior to entering a healthcare facility so appropriate infection control precautions can be implemented.
9. **Make note of the staff and other patients who were in the area during the time the patient with suspected measles was in the facility** and for two hours after they left. If measles is confirmed, exposed people will need to be assessed for measles immunity.



MMR Vaccine Recommendations

KDPH encourages providers to recommend routine MMR vaccination in accordance with the [AAP recommended schedule](#).

Children are recommended to receive the first dose of MMR beginning at 12 months of age or as early as 6 months of age in certain situations (e.g., during a community-wide outbreak or if traveling internationally). A second dose of MMR is routinely administered at age four through six years but may be given sooner as long as at least 28 days have passed since the prior dose of MMR or 90 days have passed since the prior dose of measles, mumps, rubella and varicella (MMRV). Children 6 through 11 months of age that are traveling internationally are recommended to receive a dose of MMR ideally at least two weeks prior to travel. Note: this dose should be repeated to ensure child receives two total doses on or after the first birthday.

People are presumed to be protected from measles if they have written documentation of at least one of the following:

- Two doses of measles-containing vaccine in school-aged child (grades K-12), college or university student, healthcare personnel, international traveler or in a setting that poses a high risk for measles transmission;
- One dose of measles-containing vaccine administered in 1968 or later in a preschool-aged child or adult not in a high-risk settings for measles transmission;
- A previous laboratory-confirmed measles infection;
- Laboratory-confirmed immunity to measles (IgG serologic test); or
- Born before 1957.

Certain adults may need two doses. Adults who will be in a setting that poses a high risk for measles transmission should make sure they have had two doses separated by at least 28 days. These adults include:

- Anyone who is traveling internationally;
- Health care personnel;
- Students at post-high school education institutions; and
- People who public health authorities determine are at increased risk for getting measles during a measles outbreak.

In addition, adults who were vaccinated between 1963 and 1967 with an older, less-effective measles vaccine should be revaccinated with at least one MMR dose to ensure they are protected. Adult-specific MMR vaccination recommendations can be found [here](#).

Health care personnel with general questions about measles during regular business hours (Monday through Friday, 8:00 AM to 4:30 PM ET) should contact the KDPH Immunizations Branch at (502) 564-4478.