TO: Primary Care Staff, Infectious Disease, Emergency Medicine, Internal Medicine, Pediatrics, Family Medicine, Laboratory Medicine, and Infection Control Personnel

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SUBJECT: Measles Advisory

Summary:

- A case of measles has been confirmed in an adult resident of New Haven County, Connecticut who had rash onset on 4/24/14.
- The source of this case is unknown.
- The average incubation period of measles (from contact with a case until onset of rash) is 14 days, with a range of 7–21 days.
- Cases are considered infectious from 4 days before rash onset through 4 days after.
- The Connecticut Department of Public Health (DPH) is working with local health departments and healthcare providers to identify and inform identified contacts of the cases.
- We may see secondary cases of measles among contacts, especially among those who have never been vaccinated for measles.
- All suspected measles cases must be reported to the DPH Immunization Program at (860) 509-7929. All requests for testing from the DPH Laboratory must be reported and approved by the Immunization Program.

In February 2014, two confirmed measles cases involving an adult and an infant occurred in Fairfield County, Connecticut. The cases were not linked epidemiologically to each other. Measles cases have been reported recently from states bordering Connecticut.

Children or adults born since 1957 who do not have documented evidence of receiving a measles-containing vaccine or documented evidence of laboratory confirmed measles are considered to be highly susceptible to measles. All people in this age group are recommended to receive two doses of a measles-containing vaccine.

Recommendations

1. **Consider measles** in patients who present with a febrile rash illness. Have a high index of suspicion in patients who present with a morbilliform rash **with fever still present at the time of rash onset** AND cough, coryza, or conjunctivitis.

   The characteristic measles rash is classically described as a generalized, maculopapular, erythematous rash that begins several days after the fever starts. It starts on the head and neck before spreading to cover most of the body, often causing itching. The measles rash appears two to four days after the initial symptoms and lasts for up to eight days. The rash is said to "stain", changing color from red to dark brown, before disappearing. Koplik's spots seen inside the mouth are pathognomonic (diagnostic) for measles, but are not often seen because they are transient and may disappear within a day of arising.

2. **Immediately notify** the DPH Immunization Program of any patient that you suspect could have measles by telephone at (860) 509-7929 or during evenings, weekends, or holidays call (860) 509-8000.
3. Collect patient samples to confirm measles diagnosis.
   a. Take blood for serological confirmation (IgM testing). IgM Testing can be performed at the DPH Laboratory. Call the Immunization Program for more information.
   b. An oropharyngeal or nasopharyngeal swab can be collected for detection of measles RNA by RT–PCR or virus isolation. This test is useful for public health to determine from which region of the world the virus was introduced. Samples are sent to the Centers for Disease Control and Prevention for testing, and must be coordinated with the Immunization Program. For more information on sample collection visit [www.cdc.gov/measles](http://www.cdc.gov/measles) and click on the “Lab Tools” tab.

4. Minimize transmission:
   a. Be alert for new measles cases - make sure all staff, particularly triage nurses, have a high index of suspicion for patients presenting with a febrile rash illness.
   b. If other patients are in the waiting room when they arrive, give the suspected case a mask and take him/her directly to a consulting room (that room should not be used for another patient for at least two hours after the consultation).

5. In general practice:
   a. See suspected measles patients at home if possible.
   b. If not possible, make their appointment the last of the day to minimize contact with other patients in the waiting room.
   c. If a patient needs to be sent to hospital, give them a mask to wear and telephone ahead and let the Emergency Department or Ambulance staff (if applicable) know that you are referring a case of suspected measles.

6. Seek advice from the DPH regarding the management of susceptible contacts:
   a. On DPH advice, follow up all persons who have been in the waiting room at the same time as an infectious case (if infection control precautions were not implemented) and for two hours after the visit. These people are considered to be exposed to the measles virus.
   b. To prevent measles in susceptible contacts give:
      - Measles-mumps-rubella (MMR) vaccine if within 72 hours of first contact with the patient to those 6 months of age and older without contraindications; OR
      - Immune globulin if longer than 72 hours but within 6 days from contact to those under 6 months of age or who have contraindications to MMR vaccine.

7. Check vaccination records for:
   a. Your staff - All staff born during or since 1957 should have documentation of two doses of measles containing vaccine.
   b. Your patients - Ideally all patients born during or since 1966 should have received two doses of a measles-containing vaccine.
   c. Currently MMR vaccine is routinely recommended at 12–15 months and 4–6 years of age.

Attached is a sign that can be distributed to health care personnel or posted in a hospital. For more information, visit the Centers for Disease Control and Prevention measles home page at [http://www.cdc.gov/measles/about/index.html](http://www.cdc.gov/measles/about/index.html).