# Health Advisory:

Record Number of Reported Measles Cases in the U.S. in 2014

### June 6, 2014

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Health Alerts convey information of the highest level of importance which warrants immediate action or attention from Missouri health providers, emergency responders, public health agencies, and/or the public.

Health Advisories provide important information for a specific incident or situation, including that impacting neighboring states; may not

require immediate action.

Health Guidances contain comprehensive information pertaining to a particular disease or condition, and include recommendations, guidelines, etc. endorsed by DHSS.

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# Missouri Department of Health & Senior Services

Health Advisory June 6, 2014

## FROM: GAIL VASTERLING DIRECTOR

# SUBJECT: Record Number of Reported Measles Cases in the U.S. in 2014

On May 29, 2014, the Centers for Disease Control and Prevention (CDC) issued a press release entitled "Measles Cases in the United States Reach 20-Year High." A brief summary of the press release along with other pertinent information is provided below.

### Summary and Background

Three hundred thirty-four cases of measles were reported to the Centers for Disease Control and Prevention (CDC) in the United States between Jan. 1 and May 30, 2014. This is the largest number of measles cases in the United States reported in the first five months of a year since 1994. Missouri is one of many states reporting measles cases this year. Nearly all of the measles cases this year have been associated with international travel by unvaccinated persons or persons whose vaccination status was unknown.

The large number of measles cases this year stresses the importance of vaccination. Healthcare providers should use every patient encounter to ensure that all patients are up to date on vaccinations; especially before international travel. Travelers with measles continue to bring the disease into the U.S., which can then spread to communities or groups of people who are unvaccinated.

Measles was declared eliminated in the U.S. in 2000 due to high 2-dose measles vaccine coverage, but it is still endemic, or large outbreaks are occurring, in countries in Europe (including France, the United Kingdom, Spain, and Switzerland), Africa, Asia (including India), and the Philippines. The increase in measles cases and outbreaks in the U.S. this year underscores the ongoing risk of importations, the need for high measles vaccine coverage, and the importance of prompt and appropriate public health response to measles cases and outbreaks.

Measles is a highly contagious, acute viral illness that is transmitted by contact with an infected person through coughing and sneezing. Patients are considered to be contagious from 4 days before until 4 days after the rash appears. After an infected person leaves a location, the virus remains contagious for up to 2 hours on surfaces and in the air. Measles can cause severe health complications, including pneumonia, encephalitis, and death.

### **Recommendations for Health Care Providers.**

Exposure to measles is not a contraindication to immunization. Available data suggest that the measles vaccine, if given within 72 hours of measles exposure, will provide protection in some cases. If the exposure does not result in infection, the vaccine should induce protection against subsequent measles exposures. (*MMWR*, June 14, 2013 / 62(RR04);1-34)

For those who travel abroad, CDC recommends that all U.S. residents older than 6 months be protected against measles and receive the MMR vaccine, if needed, prior to departure.

• Infants 6 through 11 months old should receive 1 dose of the MMR vaccine before departure.\*

- Children 12 months of age or older should have documentation of 2 doses of the MMR vaccine (separated by at least 28 days).
- Children 1 through 12 years of age may receive the MMRV vaccine for protection against measles, mumps, rubella, and varicella; however, MMRV vaccine is not recommended for the first dose in the MMR series of vaccinations for children ages 12 months through 47 months.\*\* CDC recommends that the MMR vaccine and the varicella vaccine be administered separately for the first dose in this age group. Providers who are considering administering MMRV vaccine should discuss the benefits and risks of both vaccination options with the parents or caregivers.
- Teenagers and adults without evidence of measles immunity<sup>†</sup> should have documentation of 2 appropriately spaced doses of the MMR vaccine.

Health-care providers should maintain a high suspicion for measles among febrile patients with a rash. Patients with clinical symptoms compatible with measles (febrile rash plus cough, coryza, and/or conjunctivitis, should be asked about recent travel abroad and contact with returning travelers, or contact with someone with a febrile rash illness. Their vaccination status should also be verified. Immunocompromised patients may not exhibit rash or may exhibit an atypical rash. The incubation period for measles from exposure to fever is usually about 10 days (range, 7 to 14 days) and from exposure to rash onset is usually 14 days (range, 7 to 21 days).

Persons who have been exposed to measles should contact their healthcare provider if they develop cold-like symptoms with a fever and/or rash. They should **NOT** go to any healthcare facility without calling first. The suspect case should be kept separate from others to prevent further spread.

Isolate suspect measles case-patients and immediately report suspected cases to the local public health agency, or to the Missouri Department of Health and Senior Services (DHSS) at 573/751-6113 or 800/392-0272 (24/7). To ensure a prompt public health response, do not wait for laboratory confirmation.

Laboratory specimens may be referred to the Missouri State Public Health Laboratory after consultation with the local public health agency or DHSS representative. Obtain a single blood/serum specimen for measles IgM serology testing. A specimen for RT-PCR (throat swab, NP swab, urine) **must** be collected for simultaneous submission with the serum specimen. For more information, please call 573/751-3334.

The sensitivity of measles IgM assays varies and may be diminished during the first 72 hours after rash onset. If the result is negative for measles IgM and the patient has a generalized rash lasting more than 72 hours, a second serum specimen should be obtained and the measles IgM test should be repeated. (AAP. *Red Book*, 2012; p. 491)

- \* Infants who receive a dose of MMR vaccine before their first birthday should receive 2 more doses of MMR vaccine, the first of which should be administered when the child is 12 through 15 months of age and the second at least 28 days later.
- \*\*In MMRV vaccine pre-licensure studies conducted among children 12-23 months of age, fever (reported as abnormal or elevated 102°F or higher oral equivalent) was observed 5-12 days after vaccination in 21.5% of MMRV vaccine recipients compared with 14.9% of recipients who received MMR vaccine and varicella vaccine separately.
- <sup>†</sup> One of the following is considered evidence of measles immunity for international travelers: (1) Documentation of age-appropriate vaccination with a live measles virus-containing vaccine: for infants aged 6–11 months: 1 dose, for persons aged ≥12 months: 2 doses; or (2) Laboratory evidence of immunity; or (3) Laboratory confirmation of disease; or (4) Born before 1957. For further guidance, please refer to <u>http://www.cdc.gov/mmwr/preview/mmwrhtml/rr6204a1.htm?s\_cid=rr6204a1\_w</u>.

Questions should be directed to DHSS' Bureau of Immunization Assessment and Assurance at 573/751-6124.

#### For more information:

Measles Cases and Outbreaks: http://www.cdc.gov/measles/cases-outbreaks.html

For Healthcare Professionals: http://www.cdc.gov/measles/hcp/index.html

http://www.cdc.gov/mmwr/preview/mmwrhtml/rr6204a1.htm?s\_cid=rr6204a1\_w

For Travelers: <a href="http://www.cdc.gov/measles/travelers.html">http://www.cdc.gov/measles/travelers.html</a>

Laboratory Information: <u>http://health.mo.gov/lab/measlesrubella.php</u> (IgM serology) <u>http://health.mo.gov/lab/measles.php</u> (measles isolation/RT-PCR)