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Clinical Presentation

- Acute viral respiratory illness
- Prodrome-fever (as high as 105° F.) and malaise
- Three "C"s-cough, coryza and conjunctivitis
- Koplik spots followed by a maculopapular rash
- Rash presents usually about 14 days following exposure











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Laboratory Testing

- Serology-IgG and IgM
- Detection of specific IgM antibodies in a serum sample collected within the first few days of rash onset can provide presumptive evidence of a current or recent measles virus infection. However, because no assay is 100% specific, serologic testing of non-measles cases using any assay will occasionally produce false positive IgM results. Serologic tests can also result in false-negative results when serum specimens are collected too early with respect to rash onset.
- Oropharyngeal Swab-PCR

https://www.cdc.gov/measles/lab-tools/serology.html



















Our Specimen

To differentiate wild type measles from vaccine type measles we referred our sample for Measles Genotype A Reverse-Transcriptase quantitative PCR (MeVA) testing. Detection of this strain indicates vaccine strain virus.

This test should be performed when a person has been both exposed to measles and has received an MMR vaccination within 21 days of symptom development.

Our case was Genotype A-Vaccine Strain



Challenges Encountered During this Response

- Friday afternoon after regular business hours
- CDC specimen could not be sent until Monday 5/20
- Difficulties obtaining contact information for key facilities
- Creating communication materials during the response
- Crafting messaging around vaccine, not to undermine trust
- Attempting to avoid rumors by exposed patients
- Bringing in public health resources over the weekend

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