

Influenza Surveillance, Reporting and Testing Guidance for Healthcare Providers for the 2012–2013 Influenza Season

Michigan Department of Community Health September 18, 2012

This guidance outlines Michigan Department of Community Health (MDCH) recommendations on influenza surveillance, reporting and testing for healthcare providers. Future updates may be issued if influenza virus severity or activity changes. Please call the MDCH Division of Communicable Disease at (517) 335-8165 with any questions.

Updates on Surveillance Activities

- MDCH encourages *voluntary* reporting of influenza hospitalizations of all ages and adult deaths into the Michigan Disease Surveillance System (MDSS) by local health departments and healthcare providers.
- *Reporting of pediatric influenza-associated deaths (<18 years of age) continues to be required.*
- Surveillance for influenza cases with severe, unusual presentations (encephalitis, pulmonary hemorrhage, pregnant or postpartum women with severe complications, etc.) continues.
- MDCH's participation in the CDC Influenza Hospitalization Surveillance Project (Clinton, Eaton, and Ingham counties) will continue through the 2012-2013 influenza season and has been expanded this year to include Genesee County.
- Michigan influenza activity is summarized in the MI FluFocus weekly report (available online at www.michigan.gov/flu).
- Suspect variant swine influenza cases should continue to be tested for influenza (preferably by PCR testing at MDCH) and reported to your local health department.

Influenza Testing

- Submission of respiratory specimens to BOL from a representative sample of outpatients, hospitalizations and adult deaths for influenza and respiratory virus testing is encouraged throughout the year. No clinical criteria are currently in place for MDCH Bureau of Laboratories (BOL) influenza testing.
- Specimen submission to BOL from all pediatric deaths, patients with severe or unusual presentations and cases associated with congregate facility respiratory outbreaks, is especially important and highly encouraged.
- During the 2012-2013 influenza season, BOL will utilize RT-PCR as the first line testing for Influenza A and B. Specimens negative for influenza by PCR will then undergo culture to test for other respiratory viruses.
- Healthcare providers and labs should consider the low positive predictive value of rapid influenza diagnostic tests (i.e. false positives) during times of low influenza prevalence in the community. Confirmatory testing should be sought for rapid test-positive specimens or negative specimens from patients with a high clinical index of suspicion for influenza.
- Laboratory-associated resources can be found at the following website:
http://www.michigan.gov/mdch/0,1607,7-132-2945_5103-213906--,00.html.

Influenza Reporting Recommendations

Weekly counts of influenza-like illness

- Continue to report counts to your local health department as previously established.

Individual influenza cases

- ***Case definitions***

- **Confirmed:** Cases with results positive for influenza via confirmatory laboratory test methods (PCR, viral culture, direct fluorescent antigen or DFA, indirect fluorescent antigen or IFA).
- **Probable:** Cases with results positive for influenza via screening test methods (rapid test, enzyme immunoassay or EIA).
- **Suspect:** Cases with no lab testing but that do have a clinically compatible influenza-like illness.
- Cases with negative test results can be classified as either “Suspect” or “Not a Case” depending on clinical presentation and current community prevalence of influenza.
- Serology testing (also referred to as antibody testing, IgG, IgM, IgA) is not an approved testing method unless there are paired specimens collected at least two weeks apart that demonstrate a four-fold rise in titers.

- ***Laboratory-confirmed, hospitalized, or adult death cases (seasonal or 2009 H1N1 strains)***

- Please report these cases and their relevant information individually to your local health department. While individual reporting of these cases is now voluntary, this information is still useful and will be evaluated.
 - If entering these cases directly into MDSS, use the “Influenza” form.
 - Be sure to update the Patient Status variable if it is a hospitalization or death.
 - If not entering cases into MDSS, then report cases to your local health department.

- ***All other individual influenza cases***

- If entering cases directly into MDSS, decide whether to enter as individual cases (use “Influenza” form) or enter as aggregate counts under “Flu-like Disease.”
- If not entering cases into MDSS, then report cases to your local health department.

- ***Please notify your local health department regarding the following case presentations:***

- Pediatric influenza-associated deaths (<18 years of age)
- Severe, unusual presentations of influenza
 - Encephalitis
 - Pulmonary hemorrhage
 - Pregnant or newly postpartum women with severe complications or ICU hospitalization
- Facility outbreaks

- ***Suspect cases of avian influenza or novel influenza strains (not the 2009 A/H1N1 strain)***

- Immediately notify your local health department (alternatively, MDCH may be contacted at (517) 335-8165 or after hours at (517) 335-9030).