



LIVINGSTON COUNTY HEALTH DEPARTMENT

2300 East Grand River Avenue, Suite 102

Howell, Michigan 48843-7578

www.lchd.org

PERSONAL/PREVENTIVE HEALTH SERVICES

P: (517) 546-9850

F: (517) 546-6995

ENVIRONMENTAL HEALTH SERVICES

P: (517) 546-9858

F: (517) 546-9853

Variant (Swine) Influenza Guidance for Healthcare and Public Health Providers Friday, July 27, 2018

The Livingston County Health Department (LCHD) is alerting healthcare providers about a confirmed influenza A infection in swine at the Fowlerville Family Fair. The Fowlerville Fair Board has taken steps to isolate infected swine to prevent additional exposure. Infected swine began showing symptoms in the evening of Thursday, July 26 and laboratory results were confirmed late Friday afternoon. The fair is scheduled from July 23-July 28. At this time, there are no reported human illnesses. The LCHD, in coordination with the Fowlerville Fair Board, are reaching out to swine exhibitors, their families, and those attendees who visited the swine barn to notify them of possible exposure to infected pigs. The LCHD is also instructing healthcare providers in the area to watch for patients presenting with respiratory symptoms who report exposure to swine or who visited the fair.

During recent summers, swine exhibitions at agricultural fairs have been associated with human infections caused by swine variant influenza A viruses, such as H3N2v, H1N2v and H1N1v. In 2016, Michigan confirmed 12 human cases of variant influenza infection associated with three county fairs. Healthcare providers and public health professionals should consider variant influenza infection when evaluating persons with influenza-like illness (ILI) or investigating positive influenza results during the summer fair season. This guidance outlines the Michigan Department of Health and Human Services recommendations on variant influenza surveillance, reporting and testing for healthcare providers, laboratories, and local health departments.

Influenza Case Identification, Testing, and Treatment

1. Clinicians treating patients with an influenza-like illness (fever $\geq 100^{\circ}\text{F}$ plus a cough and/or a sore throat) should ask about recent exposure to swine or attendance at agricultural fairs.

Clinical characteristics of variant influenza infection are similar to symptoms of uncomplicated seasonal influenza, including fever, cough, pharyngitis, rhinorrhea, myalgia, and headache. Vomiting, diarrhea and conjunctivitis have also been reported in some cases. Milder illness is possible, including lack of fever. Duration of illness in most cases is approximately 3-5 days, but may be a week or more. As with seasonal flu, those at higher risk for flu-related complications may develop more serious illness.

2. Collection of upper respiratory specimens is strongly advised for any influenza-like illness (e.g., outpatients, hospitalizations, deaths) among the following:

- Patients reporting direct or indirect swine exposure or attendance at an agricultural fair
- Patients reporting close contact (within 6 ft) to an ill person with recent swine exposure
- Children <18 years of age
- Unusual or severe presentations of influenza-like illness, including hospitalizations
- Outbreaks of influenza-like illness, especially among children

3. Respiratory specimens should be collected as soon as possible after illness onset.

Preferred respiratory specimens include: nasopharyngeal swab, nasal aspirate or wash or a combined nasopharyngeal swab with oropharyngeal swab. Nasal or oropharyngeal swabs are also acceptable but less preferred. If the patient is able to produce a sputum specimen, please collect in addition to the upper respiratory specimen(s) listed above.

- All specimens should be placed into sterile containers and immediately placed on refrigerant gel-packs at 4°C (refrigerator) for transport to the laboratory. For swabbed specimens, use sterile viral transport media.

4. Specimens from suspect variant influenza cases should be submitted to MDHHS:

- Commercially available rapid influenza diagnostic tests (RIDTs) and molecular-based testing **may not** detect variant influenza virus in respiratory specimens. In addition, a positive test result for influenza A cannot confirm variant influenza virus infection because these tests cannot distinguish between influenza A virus subtypes (does not differentiate between human seasonal influenza A viruses and swine variant viruses).
- For information on how to collect and submit specimens to the MDHHS Bureau of Laboratories, including the required Test Requisition form, refer to: http://www.michigan.gov/mdch/0,4612,7-132-2945_5103-213906--,00.html
- Contact the MDHHS Division of Communicable Disease to coordinate specimen submission to the state public health laboratory.

5. The antiviral drug oseltamivir (Tamiflu) is effective in treating variant influenza infection. Early initiation of antiviral treatment is most effective. Further information for clinicians regarding the treatment of variant influenza is available at: <https://www.cdc.gov/flu/swineflu/interim-guidance-variant-flu.htm>

6. Infection Control

Healthcare personnel who treat ill persons with suspected swine variant influenza infections should follow standard, contact, and droplet precautions as recommended for patient care. More detailed infection control recommendations are available here: <http://www.cdc.gov/flu/swineflu/prevention-strategies.htm>

How to Report Suspect Swine Variant Influenza Cases

Clinicians and Laboratorians:

To promptly report suspect cases and arrange testing, contact your local health department immediately (or contact MDHHS at (517) 335-8165 or after hours at (517) 335-9030).

Local Health Departments:

- Please report any confirmed, probable, or suspect variant influenza case to MDHHS at (517) 335-8165 and enter the case into MDSS using the “Novel Influenza” form. Complete the Case Details form.
- MDHHS will work with local health departments to complete CDC forms if cases are identified.
- Case definitions are available online at: <http://www.cdc.gov/flu/swineflu/case-definitions.htm>

Healthcare and public health providers should continue to report other influenza cases (seasonal, suspect novel influenza cases, pediatric deaths, facility outbreaks) as previously directed; guidance is available at: www.michigan.gov/cdinfo in the Communicable Diseases (A-Z) under Influenza.

For more information on swine variant influenza, please visit the CDC’s website at: <https://www.cdc.gov/flu/swineflu/variant-flu-in-humans.htm>

Please contact the LCHD at (517) 546-9850 or MDHHS Division of Communicable Disease at (517) 335-8165 with any questions.

This guidance should be considered interim and may change as situations warrant.