



Guidelines for Influenza and Respiratory Virus Outbreaks in Long-Term Care Facilities



Michigan Department of Community Health
October 2013

This guidance outlines Michigan Department of Community Health (MDCH) recommendations on influenza and other respiratory virus outbreaks. Residents of long-term care facilities can experience severe and fatal illness during respiratory virus outbreaks, therefore prompt recognition and management of outbreaks is critical. Any suspected outbreaks should prompt immediate action as outlined below. Please call your local health department¹ or the MDCH Division of Communicable Disease at (517) 335-8165 with any questions.

I. Definition of a Respiratory Virus Outbreak in Long-Term Care (LTC) Settings²

1. Two or more residents develop respiratory illness within 72 hours of each other

OR

2. One laboratory-confirmed positive case (e.g. influenza, respiratory syncytial virus, parainfluenza, human metapneumovirus, adenovirus) in a resident along with other cases of respiratory infection

OR

3. A sudden increase over the normal background rate of acute respiratory illness (ARI) cases, with or without documented fever

Note that elderly or medically fragile persons may manifest atypical signs of respiratory virus infection and may not present with fever.

II. Action Steps - The following should be undertaken immediately by the LTC facility with local health department (LHD) coordination as needed.

- The LTC facility should contact their LHD to report every suspect or confirmed respiratory outbreak. Refer to http://www.michigan.gov/documents/Reportable_Disease_Chart_2005_122678_7.pdf¹
- Develop a plan for respiratory virus testing with consideration for a range of possible viral pathogens. The MDCH Bureau of Laboratories can provide testing support to confirm the outbreak etiology. Contact your LHD for consultation and coordination as needed.

If needed, order MDCH test kits (#45) by calling (517) 335-9867 or faxing the MDCH Clinical Specimen Shipping Units order form (www.michigan.gov/documents/dch-0568_7396_7.pdf) to (517) 335-9039.

- The LHD must notify MDCH of a respiratory virus outbreak or apparent ARI cluster, either by phone (at 517-335-8165) or via an outbreak reporting form, such as the *MDCH Initial Cluster Report form*³, faxed to 517-335-8263. If a LHD receives a positive respiratory virus lab report for a known resident of a LTC facility, they should follow up with the facility to ensure no other respiratory illness is present.
- For influenza outbreaks, LHDs should enter associated cases into MDSS, using their choice of the individual Influenza form for each case OR entering the number of cases into the weekly aggregate influenza case total.
- Institute standard and droplet precautions as appropriate, including the use of face masks if direct contact within 3 feet of patient occurs.^{2,4,5}
- Post handwashing signs. Emphasize respiratory hygiene and cough etiquette.⁶
- Review influenza vaccination status of residents and staff. Vaccinate all unvaccinated residents and staff with the current seasonal influenza vaccine unless medically contraindicated.

- If influenza is suspected or confirmed, consult with the facility Medical Director regarding antiviral treatment and prophylaxis.²
 - All LTC residents who have confirmed or suspected influenza should receive antiviral treatment immediately; treatment should not wait for laboratory confirmation.
 - As soon as an influenza outbreak is confirmed, all non-ill residents should receive antiviral prophylaxis, regardless of vaccination status.
 - Antiviral prophylaxis can be considered for unvaccinated personnel who provide care to persons at high risk of complications.
- Cohort and/or isolate ill residents as feasible.²
- Restrict ill staff from patient care. Restrict movement of other staff between wards.²
- Apply the facility policy for restriction of ill visitors; consider restriction of all visitors. Post visitor signs.
- Implement the facility policy for limiting or deferring new admissions.²
- Conduct daily active surveillance for respiratory illness among residents, staff and visitors until at least one week after the last laboratory-confirmed case has occurred.²

Facilities are encouraged to educate staff on the signs and symptoms of various respiratory viruses, testing procedures, the need for ongoing respiratory hygiene, and appropriate control measures.^{2,4,5,6,7} Ideally, education takes place before an outbreak and is routinely updated.

III. Essential Reference Websites

1. Local Health Department Directory and List of Reportable Diseases

http://www.michigan.gov/documents/Reportable_Disease_Chart_2005_122678_7.pdf

2. Interim Guidance for Influenza Outbreak Management in Long-Term Care Facilities

<http://www.cdc.gov/flu/professionals/infectioncontrol/ltc-facility-guidance.htm>

3. MDCH Initial Cluster Report Form (under “Reporting Forms”) - can be used to report outbreaks

http://www.michigan.gov/mdch/0,1607,7-132-2945_5104_53072_53074---,00.html

4. Standard Precautions Excerpt from the Isolation Guideline (see Section III.A.)

http://www.cdc.gov/hicpac/2007IP/2007ip_part3.html

5. Droplet Precautions Excerpt from the Isolation Guideline (see Section III.B.2.)

http://www.cdc.gov/hicpac/2007IP/2007ip_part3.html

6. Respiratory Hygiene/Cough Etiquette

<http://www.cdc.gov/flu/professionals/infectioncontrol/resphygiene.htm>

7. Guidelines for Environmental Infection Control in Health-Care Facilities

http://www.cdc.gov/hicpac/pdf/guidelines/eic_in_HCF_03.pdf

For Acute Care Facilities: Prevention Strategies for Seasonal Influenza in Healthcare Settings

<http://www.cdc.gov/flu/professionals/infectioncontrol/healthcaresettings.htm>

Influenza: <http://www.michigan.gov/flu>; <http://www.cdc.gov/flu/index.htm>

Respiratory Syncytial Virus: <http://www.cdc.gov/rsv/>

Parainfluenza: <http://www.cdc.gov/parainfluenza/index.html>

Adenovirus: <http://www.cdc.gov/adenovirus/index.html>