

North Carolina Department of Health and Human Services Division of Public Health

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To: All North Carolina Health Care Providers

From: Megan Davies, MD, State Epidemiologist

Re: 2013–14 Influenza Season: Update for NC Clinicians

This memo provides guidance to NC clinicians and information regarding the 2013–2014 influenza season. This guidance might change as the influenza season progresses; updated information is available at <u>www.flu.nc.gov</u>.

CLINICAL MANAGEMENT

- Decisions regarding treatment should be based on clinical and epidemiologic information, rather (than on test results. Rapid tests cannot rule out influenza infection, and more time is required for other test types (e.g. PCR or viral culture). If clinically indicated, treatment should not be delayed while awaiting laboratory confirmation. Current epidemiologic information is available at www.flu.nc.gov.
- Certain patients are at increased risk for influenza-related complications. These include:
 - o Children younger than 5, but especially children younger than 2 years old
 - Adults 65 years of age or older
 - Pregnant women and women up to 2 weeks postpartum
 - American Indians and Alaskan Natives
 - Persons with certain medical conditions including: Asthma; neurological and neurodevelopmental conditions; chronic lung diseases (such as COPD and cystic fibrosis); heart diseases (such as congenital heart disease, congestive heart failure and coronary artery disease); blood disorders (such as sickle cell disease); endocrine disorders (such as diabetes); kidney disorders; liver disorders; metabolic disorders (such as inherited metabolic disorders and mitochondrial disorders); and weakened immune system due to disease or medication (such as people with HIV or AIDS, or cancer, or those on chronic steroids)
 - People younger than 19 years of age who are receiving long-term aspirin therapy
 - People who are morbidly obese (Body Mass Index, or BMI, of 40 or greater)
- Not all patients with suspected influenza infection need to be seen by a health care provider. Patients who report febrile respiratory illness but do not require medical care *and are not at high risk for complications of influenza* should be instructed to stay at home in order to decrease opportunities for transmission. Patients should seek emergency medical attention for any of the following:
 - Difficulty breathing or shortness of breath
 - Pain or pressure in the chest or abdomen
 - Sudden dizziness
 - o Confusion
 - Severe or persistent vomiting
 - Flu symptoms that improve but then return with fever and worse cough
 - o In babies, bluish gray skin color, lack of responsiveness, or extreme irritation.



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- Clinical judgment is an important factor in treatment decisions. Treatment is recommended as early as
 possible for individuals with suspected or confirmed influenza who have any of the following:
 - o (Illness requiring hospitalization,
 - o Progressive, severe, or complicated illness, regardless of previous health status, or
 - Increased risk for severe disease (e.g. persons with certain chronic medical conditions, persons 65 or older, children younger than 2 years, and pregnant women).

Antiviral treatment also can be considered for any previously healthy, symptomatic outpatient not at high risk with confirmed or suspected influenza on the basis of clinical judgment, if treatment can be initiated within 48 hours of illness onset.

- Treatment is most effective when started within 48 hours of illness onset. However, treatment of
 persons with prolonged or severe illness can reduce mortality and duration of hospitalization
 even when started more than 48 hours after onset of illness.
- If antiviral treatment is prescribed, a neuraminidase inhibitor (oseltamivir or zanamivir) should be used. Information regarding currently circulating flu strains is available at <u>www.flu.nc.gov</u>. Detailed antiviral use guidance- including testing and treatment for suspected oseltamivir-resistant influenza- is available at <u>http://www.cdc.gov/flu/professionals/antivirals/index.htm</u>.

TESTING

- Rapid influenza diagnostic test (RIDT) sensitivities are approximately 40–70% when compared with viral culture or reverse transcription polymerase chain reaction (RT-PCR). Therefore, a negative RIDT does NOT rule out infection and should not be used as a basis for treatment or infection control decisions during periods when influenza is known to be circulating. Additional information is available at http://www.cdc.gov/flu/professionals/diagnosis.
- Confirmatory influenza testing at the North Carolina State Laboratory of Public Health (SLPH) is primarily intended for virologic surveillance, rather than diagnostic purposes. This testing will focus on the following groups:
 - 1. A sample of patients with influenza-like illness seen at facilities participating in the Influenza-Like Illness Network (ILINet).
 - 2. Patients who die with influenza-like illness but have no laboratory evidence of influenza infection.
- Testing at SLPH can also be considered for other patients if the local health department determines that such testing is necessary for surveillance or to determine which control measures are needed. Examples include outbreaks in institutional settings, patients with recent swine exposure, and clusters of severe or unusual respiratory illness. Local Health Department approval is REQUIRED for testing at the State Laboratory of Public Health, with the exception of specimens submitted from ILINet providers. If testing cannot be performed at SLPH, it can be requested from commercial or hospital-based laboratories.
- Specific guidance regarding specimen collection and transport is available on the "Providers" tab at <u>www.flu.nc.gov</u>.

INFECTION CONTROL

- Facilities should use a hierarchy of controls approach to prevent exposure of healthcare personnel and patients and prevent influenza transmission within healthcare settings. Given the difficulty of distinguishing influenza from other causes of respiratory illness, consistent infection control measures should be applied for ALL patients who present with acute febrile respiratory illness.
- Infection control guidance for healthcare settings can be found at <u>http://www.cdc.gov/flu/professionals/infectioncontrol/index.htm</u>.

 Outpatient medical providers who are referring patients with suspected or confirmed influenza infection to emergency departments or other medical facilities should call ahead to alert the facility that the patient is arriving and have the patient wear a surgical mask when entering the hospital. The patient should also be instructed to notify the receptionist or triage nurse immediately upon arrival that he or she has respiratory symptoms.

CONTROL MEASURES

- Annual vaccination against influenza is the best way to prevent infection, and is recommended for everyone ≥6 months of age who does not have a contraindication. It's especially important for:
 - People who are at high risk of developing serious complications like pneumonia if they get sick with the flu, and
 - People who live with or care for others who are high risk of developing serious complications.
- All patients with confirmed or suspected influenza infection should be instructed to stay at home for at least 24 hours after resolution of fever (100°F [37.8°C]) without the use of a fever-reducing medication. Patients should be given guidance on home respiratory isolation, available at <u>www.flu.nc.gov</u>. Contact your Local Health Department for questions regarding additional control measures.

Household contacts should be instructed to monitor themselves closely for illness. If they develop illness, they should stay at home and follow the guidance on home respiratory isolation.

- CDC does not recommend widespread or routine use of antiviral medications for chemoprophylaxis so as to limit the possibilities that antiviral resistant viruses could emerge. An emphasis on early treatment and monitoring is an alternative to chemoprophylaxis after a suspected exposure for some persons.
 - Chemoprophylactic use of antiviral medications is recommended to control outbreaks among high risk persons in institutional settings.
 - Post-exposure chemoprophylaxis with either oseltamivir or zanamivir could also be considered for close contacts of cases (confirmed or suspected) who are at high risk for complications of influenza, including pregnant women (see above) if antivirals can be started within 48 hours of the most recent exposure.
- Detailed guidance regarding antiviral chemoprophylaxis is available at <u>http://www.cdc.gov/flu/professionals/antivirals/index.htm</u>.
- Please use every opportunity to educate patients regarding the importance of good respiratory hygiene, hand washing, and other basic protective measures. Also, please check that pneumococcal vaccine has been administered to all patients for whom it is indicated, including those 65 or older.

SURVEILLANCE AND TRACKING

- The NC Division of Public Health (NC DPH) requires that physicians report all influenza-associated deaths (adult and pediatric) to their Local Health Department. An influenza-associated death is defined for surveillance purposes as a death resulting from a clinically compatible illness that was confirmed to be influenza (any strain) by an appropriate laboratory or rapid diagnostic test. There should be no period of complete recovery between the illness and death. A death should not be reported if:
 - 1. There is no laboratory confirmation of influenza virus infection,
 - 2. The influenza illness is followed by full recovery to baseline health status prior to death, or
 - 3. After review and consultation, there is an alternative agreed upon cause of death.
- The North Carolina Division of Public Health conducts very intensive surveillance for influenza using several systems. These include surveillance of all visits to emergency departments across the state, as well as surveillance and laboratory testing of patients seen by providers in our Influenza-Like Illness Network (ILINet) - approximately 80 practices across the state. We monitor hospitalizations and deaths that could be related to influenza in order to better understand the severity of the virus. Our testing and surveillance strategies are consistent with recommendations from CDC and make use of the strong influenza surveillance systems already in place in North Carolina.
- Influenza surveillance is different from many types of disease surveillance conducted by state and local health departments. Because flu is easily spread from person-to-person and affects a large percentage of the population, testing and reporting of every person with flu-like illness is not a practical or reliable way

to monitor flu activity. For this reason, surveillance of influenza in North Carolina is not based on the reporting of individual cases.

• Please contact your local health department to report influenza-like illness in patients with recent swine exposure or any outbreaks of influenza-like illness (i.e. fever plus cough or sore throat), particularly among young children.

NOVEL INFLUENZA VIRUSES

Influenza A H3N2 variant viruses (also known as "H3N2v" viruses) with the matrix (M) gene from the 2009 H1N1 pandemic virus were first detected in people in July 2011. Investigations into H3N2v cases indicate that the main risk factor for infection is prolonged exposure to pigs, mostly in fair settings. Specific information about prevention, diagnosis and management of H3N2v and information about other novel influenza viruses is available at www.flu.nc.gov.

Health care providers should contact their Local Health Departments or the Communicable Disease Branch epidemiologist on-call 24/7 number (919-733-3419) for questions about influenza.

We will post updates with additional guidance as warranted on <u>www.flu.nc.gov</u>. Updates are also available from the CDC at <u>www.cdc.gov/flu</u>.