

North Carolina Department of Health and Human Services
Division of Public Health • Epidemiology Section
Communicable Disease Branch



ATTENTION HEALTH CARE PROVIDERS:

Please report relevant clinical findings about this disease event to the local health department.

INFLUENZA, ADULT DEATH (≥18 YEARS OF AGE)
Confidential Communicable Disease Report—Part 2
NC DISEASE CODE: 76

REMINDER to Local Health Department staff: If sending this form to the Health Care Provider, remember to attach a cover letter from your agency indicating the part(s) of the form the provider should complete.

Patient's Last Name First Middle Suffix Maiden/Other Alias Birthdate (mm/dd/yyyy) SSN

NC EDSS LAB RESULTS

Verify if lab results for this event are in NC EDSS. If not present, enter results.

Table with 8 columns: Specimen Date, Specimen #, Specimen Source, Type of Test, Test Result(s), Description (comments), Result Date, Lab Name—City/State

NC EDSS PART 2 WIZARD COMMUNICABLE DISEASE

Is/was patient symptomatic for this disease? [Y] [N] [U]

If yes, symptom onset date (mm/dd/yyyy): _/ _/ _

CHECK ALL THAT APPLY:

Fever [Y] [N] [U]

Highest measured temperature: _____

Temperature taken:

[] Orally [] Rectally [] Other [] Unknown

Fever onset date (mm/dd/yyyy): _/ _/ _

Shock [Y] [N] [U]

Encephalitis [Y] [N] [U]

Encephalopathy [Y] [N] [U]

Seizures / convulsions [Y] [N] [U]

[] New onset

[] Exacerbation of underlying seizure disorder

[] Other

[] Unknown

Acute Respiratory Distress Syndrome (ARDS) [Y] [N] [U]

Pneumonia [Y] [N] [U]

Confirmed by X-ray or CT scan? [Y] [N] [U]

Bacteremia [Y] [N] [U]

Date of positive blood culture _/ _/ _

Septicemia / sepsis [Y] [N] [U]

Another viral co-infection [Y] [N] [U]

Please specify: _____

Was a specimen collected for bacterial culture from a normally sterile site (e.g., blood, cerebrospinal fluid [CSF], tissue, or pleural fluid)? [Y] [N] [U]

If yes, please enter all positive results in the laboratory package.

Were other respiratory specimens collected for bacterial culture (e.g., sputum, ET tube aspirate)? [Y] [N] [U]

If yes, please enter all positive results in the laboratory package.

Moderate to severe developmental delay [Y] [N] [U]

Diabetes [Y] [N] [U]

Cardiovascular/heart disease [Y] [N] [U]

If yes, specify: _____

Chronic lung disease (including asthma) [Y] [N] [U]

If yes, specify: _____

Metabolic disorder [Y] [N] [U]

If yes, specify: _____

Pregnant [Y] [N] [U]

If yes, specify gestational age: _____ weeks

Hematologic disorder [Y] [N] [U]

Seizure disorder [Y] [N] [U]

Kidney disease [Y] [N] [U]

If yes, specify: _____

Any immunosuppressive conditions [Y] [N] [U]

If yes, specify: _____

Neuromuscular disorder [Y] [N] [U]

If yes, specify: _____

Skin or soft tissue infection [Y] [N] [U]

If yes, specify: _____

Other underlying illness [Y] [N] [U]

If yes, specify: _____

Was the patient receiving any of the following therapies prior to illness onset? (check all that apply)

[] Antiviral therapy (specify _____)

[] Chemotherapy or radiation therapy

[] Steroids by mouth or injection

[] Other immunosuppressive therapy (specify _____)

Did the patient receive an antiviral for this illness? [Y] [N] [U]

Specify antiviral name:

[] Amantadine (Symmetrel)

[] Oseltamivir (Tamiflu)

[] Rimantadine (Flumadine)

[] Zanamivir (Relenza)

[] Other _____

[] Unknown

Date antiviral treatment began: _/ _/ _

Number of days taken: _____

Did the patient receive medical care for this illness? [Y] [N] [U]

Specify level(s) of care (check all that apply):

[] Outpatient

[] Emergency department

[] Inpatient

[] ICU

[] Other

[] Unknown

Did the patient require mechanical ventilation? [Y] [N] [U]

(CONTINUED NEXT PAGE)

Patient's Last Name	First	Middle	Suffix	Maiden/Other	Alias	Birthdate (mm/dd/yyyy) / /
						SSN / /

NC EDSS PART 2 WIZARD COMMUNICABLE DISEASE (CONTINUED)

Discharge/Final diagnosis: _____

Survived? Y N U

Died? Y N U

Died from this illness? Y N U

Date of death (mm/dd/yyyy): ____/____/____

Location of death:

Home

Emergency Department

Hospital ICU

Hospital inpatient

En route to hospital

Long-term care facility

Other, specify: _____

Unknown

Patient died in North Carolina? Y N U

County of death: _____

Died outside NC? Y N U

Specify where: _____

Autopsy performed? Y N U

Patient autopsied in NC? Y N U

County of autopsy: _____

Autopsied outside NC, specify where: _____

Source of death information (select all that apply):

Death certificate

Autopsy report final conclusions

Hospital/physician discharge summary

Other

Pathology specimens sent to CDC? Y N U

Did cardiac or respiratory arrest occur outside the hospital? Y N U

Did the patient receive any seasonal influenza vaccine during the current season (before illness)? Y N U

If yes, vaccine type:

Inactivated influenza vaccine [injected]

Live-attenuated influenza vaccine (LAIV) [nasal spray]

Other, specify _____

Unknown vaccine type

How many doses did the patient receive and what was the timing of each dose?

1 dose ONLY

<14 days prior to illness onset

≥14 days prior to illness onset

Date dose given (mm/dd/yyyy): ____/____/____

2 doses

2nd dose given <14 days prior to illness onset

2nd dose given ≥14 days prior to illness onset

Date of 1st dose (mm/dd/yyyy): ____/____/____

Date of 2nd dose (mm/dd/yyyy): ____/____/____

Did the patient receive any pandemic H1N1 influenza vaccine during the current season (before illness)? Y N U

If yes, vaccine type:

Inactivated influenza vaccine [injected]

Live-attenuated influenza vaccine (LAIV) [nasal spray]

Other, specify _____

Unknown vaccine type

How many doses did the patient receive and what was the timing of each dose?

1 dose ONLY

<14 days prior to illness onset

≥14 days prior to illness onset

Date dose given (mm/dd/yyyy): ____/____/____

2 doses

2nd dose given <14 days prior to illness onset

2nd dose given ≥14 days prior to illness onset

Date of 1st dose (mm/dd/yyyy): ____/____/____

Date of 2nd dose (mm/dd/yyyy): ____/____/____

Did the patient receive any influenza vaccine in previous seasons? Y N U

CLINICAL FINDINGS

Fatigue or malaise or weakness Y N U

Chills or rigors Y N U

Dehydration Y N U

Altered mental status Y N U

Coma Y N U

Meningitis Y N U

Muscle aches / pains (myalgias) Y N U

Myositis Y N U

Sore Throat Y N U

Cough Y N U

Onset date (mm/dd/yyyy): ____/____/____

Apnea Y N U

Shortness of breath/difficulty breathing/ respiratory distress Y N U

Did the patient have a chest x-ray? Y N U

If yes, describe (check all that apply)

Normal Pleural effusion

Infiltrate Other

Diffuse infiltrates/findings suggestive of ARDS

Cardiac arrhythmias or cardiac arrest Y N U

Myocarditis Y N U

Nausea Y N U

Vomiting Y N U

Abdominal pain or cramps Y N U

Diarrhea Y N U

Elevated liver enzymes Y N U

Leukopenia Y N U

Other symptoms, signs, clinical findings, or complications consistent with this illness Y N U

Please specify: _____

TREATMENT

Was antiviral prophylaxis given prior to illness onset? Y N U

If yes, specify: _____

Did the patient require supplemental oxygen? Y N U

Date started (mm/dd/yyyy): ____/____/____

Did the patient require high frequency oscillatory ventilation? Y N U

Date started (mm/dd/yyyy): ____/____/____

Did the patient require extracorporeal membrane oxygenation (ECMO)? Y N U

Date started (mm/dd/yyyy): ____/____/____

HOSPITALIZATION INFORMATION

Was patient hospitalized for this illness >24 hours? Y N U

1. Hospital name: _____

City, State: _____

Hospital contact name: _____

Telephone: (____) _____

Admit date ____/____/____

Discharge date ____/____/____

If applicable:

2. Hospital name: _____

City, State: _____

Hospital contact name: _____

Telephone: (____) _____

Admit date ____/____/____

Discharge date ____/____/____

CASE INTERVIEWS/INVESTIGATIONS

Were interviews conducted with others? Y N U

Who was interviewed? _____

Were health care providers consulted? Y N U

Who was consulted? _____

Medical records reviewed (including telephone review with provider/office staff)? Y N U

Specify reason if medical records were not reviewed: _____

Notes on medical record verification: _____

Influenza, adult death

2009 Case Definition (North Carolina)

Clinical description:

An influenza-associated death is defined for surveillance purposes as a death resulting from a clinically compatible illness that was confirmed to be influenza (either seasonal or pandemic) by an appropriate laboratory or rapid diagnostic test. There should be no period of complete recovery between the illness and death.

Influenza-associated deaths in all persons aged <18 years should also be reported separately as "Influenza, Pediatric 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.
3. After review and consultation there is an alternative agreed upon cause of death.

Laboratory criteria for diagnosis

Laboratory testing for influenza virus infection may be done on pre- or post-mortem clinical specimens, and include identification of influenza A virus (seasonal or pandemic) or influenza B virus infections by a positive result by at least one of the following:

- Influenza virus isolation in tissue cell culture from respiratory specimens;
- Reverse-transcriptase polymerase chain reaction (RT-PCR) testing of respiratory specimens;
- Immunofluorescent antibody staining (direct or indirect) of respiratory specimens;
- Rapid influenza diagnostic testing of respiratory specimens;
- Immunohistochemical (IHC) staining for influenza viral antigens in respiratory tract tissue from autopsy specimens;
- Four-fold rise in influenza hemagglutination inhibition (HI) antibody titer in paired acute and convalescent sera*.

Case classification

Confirmed - A death meeting the clinical case definition that is laboratory confirmed.

Laboratory or rapid diagnostic test confirmation is required as part of the case definition; therefore, all reported deaths will be classified as confirmed.

Comment

*Serologic testing for influenza is available in a limited number of laboratories, and should only be considered as evidence of recent infection if a four-fold rise in influenza (HI) antibody titer is demonstrated in paired sera. Single serum samples are not interpretable.