

TIBDN INFLUENZA SURVEILLANCE FORM

Hospital Acquired Influenza (v.1.2. Dec , 2005)

TIBDN ID: _____

1) Patient Initials _____	2) Sex: <input type="checkbox"/> Male <input type="checkbox"/> Female	4) Hospital: _____
3) DOB: _____ <small>(dd/month/yyyy)</small>	5) Postal code: _____	

INFLUENZA ONSET AND HOSPITAL ADMISSION

6) Date of symptom onset: _____ (dd/month/yyyy)
(include fever and specific upper respiratory symptoms in days before test positive for influenza)

1. Time of onset: (from the chart) _____ (hh:mm), or *estimated: _____
** estimated time (day, morning, evening, night)*

7N) Date admitted to hospital _____ (dd/month/yyyy)

8N) Admission Diagnosis: _____

9N) Location in the hospital at the time of influenza symptom onset:
 ICU Medical/Surgical Ward Long Term Care (Rehab) Floor Unknown

10) Outcome:
 Survived, date of discharge _____
 Died, Date of death _____ Time: _____ (hh:mm)

11) Cause of Death (from death certificate): _____

Comment re: cause of death: based on MD notes, would the patient have died even if he/she had not had influenza? Yes No

12) Is this infection associated with an institution? **Yes, nosocomial*** (marked for data entry purposes)
***Nosocomial Cases** - Onset of influenza illness **is >=48 hours after hospital admission**
FOR CASES acquired in a hospital, but discharged, and readmitted with influenza use the form for Community-Acquired Influenza

LABORATORY TESTING FOR INFLUENZA

13) Date influenza positive specimen collected: _____ (dd/month/yyyy)

14) **Type of specimen:**
 NP swab Throat swab Sputum BAL Auger Suction/NP aspirate
 Other (specify) _____

15) **Lab Tests:** (check all available tests results)

Shell vial or tube viral culture Pos Neg Not found
if culture done by PHL, specify PHL lab N:

Direct fluorescent antibody (DFA) Pos Neg Not found
 Enzyme immunoassay (EIA) eg. Becton Dickinson Pos Neg Not found

16) Type influenza: Influenza A Influenza B A/B (not distinguished) can't find on chart

17) Results of Cultures done within 3 DAYS (+/- 3) of test positive for Influenza (anything OTHER than influenza)				
	If positive, Specify Organism			Date of the test
Blood	<input type="checkbox"/> not done	<input type="checkbox"/> Neg	<input type="checkbox"/> Pos	
CSF	<input type="checkbox"/> not done	<input type="checkbox"/> Neg	<input type="checkbox"/> Pos	
Pleural fluid	<input type="checkbox"/> not done	<input type="checkbox"/> Neg	<input type="checkbox"/> Pos	
Urine	<input type="checkbox"/> not done	<input type="checkbox"/> Neg	<input type="checkbox"/> Pos	
Throat swab	<input type="checkbox"/> not done	<input type="checkbox"/> Neg	<input type="checkbox"/> Pos	
Sputum	<input type="checkbox"/> not done	<input type="checkbox"/> Neg	<input type="checkbox"/> Pos	
Bronch. Specimen	<input type="checkbox"/> not done	<input type="checkbox"/> Neg	<input type="checkbox"/> Pos	
NP swab	<input type="checkbox"/> not done	<input type="checkbox"/> Neg	<input type="checkbox"/> Pos	
VRE/MRSA screen	<input type="checkbox"/> not done	<input type="checkbox"/> Neg	<input type="checkbox"/> VRE Pos	<input type="checkbox"/> MRSA Pos
	Is the patient known to be MRSA positive? <input type="checkbox"/> Yes <input type="checkbox"/> No			
	Is the patient known to be VRE positive? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Other, specify	<input type="checkbox"/> not done	<input type="checkbox"/> Neg	<input type="checkbox"/> Pos	

18) APACHE II Score (values are the WORST measurement taken within 24 HOURS of TEST POSITIVE for Influenza)										
Measurement	High Abnormal Range					Low Abnormal Range				
	+4	+3	+2	+1	0	+1	+2	+3	+4	
Temperature (C)	>=41	39 - 40.9		38.5 - 38.9	36 - 38.4	34 - 35.9	32 - 33.9	30 - 31.9	<=29.9	
Blood Pressure (Systolic /Diastolic)	Record most extreme BP; normal BP for adults usually fall in the range 90/60 - 130/80.									
Heart Rate	>=180	140 - 179	110 - 139		70 - 109	55 - 69	40 - 54		<=39	
Respiratory Rate	>=50	35 - 49		25 - 34	12 - 24	10 - 11	6 - 9		<=5	
Oxygenation:										
FiO2	(the higher - the worst) ; measured either in % or L/Min									
PaO2 (mmHg)	(the lower - the worst)					>70	61 - 70		55 - 60	<55
PaCO2 (mmHg)	Normal range - 35-45 mmHg (or 4.7-6.0 kPa)									
Arterial pH	>=7.7	7.6 - 7.69		7.5 - 7.59	7.33 - 7.49		7.25 - 7.32	7.15 - 7.24	<7.15	
Serum HCO3 (venous mEq/L)	>=52	41 - 51.9		32 - 40.9	22 - 31.9		18 - 21.9	15 - 17.9	<15	
Serum Sodium (mEq/l)	>=180	160 - 179	155 - 159	150 - 154	130 - 149		120 - 129	111 - 119	<=110	
Serum Potassium (mEq/l)	>=7	6 - 6.9		5.5 - 5.9	3.5 - 5.4	3 - 3.4	2.5 - 2.9		<2.5	
Serum Creatinine (mmol/l)	>=305	170-304	130-169		54-129		<54			
Hematocrit (%)	>=60		50 - 59.9	46 - 49.9	30 - 45.9		20 - 29.9		<20	
White Blood Count (x 10 ⁹ /L)	>=40		20 - 39.9	15 - 19.9	3 - 14.9		1 - 2.9		<1	
SaO ₂ (%) (Oxygen Saturation)	(the lower - the worst)									

18A) Glasgow Coma Score (circle the corresponding score) <input type="checkbox"/> Can not tell		
<p>Eye Opening:</p> <p>(1) None (2) To Pain (3) To Speech (4) Spontaneous</p>	<p>Best Verbal Response:</p> <p>(1) None (2) Incomprehensible (3) Inappropriate Words (4) Confused (5) Oriented</p>	<p>Best Motor Response:</p> <p>(1) None (2) Abnormal Extension to Pain (3) Abnormal Flexion to Pain (4) Withdraws to Pain (5) Localized Pain (6) Obeys Commands</p>

Cont 19). PRIOR CHRONIC ILLNESS

LIVER

- Chronic hepatitis
- Hepatic cirrhosis (any cause)
- Other liver, Specify

Has the patient the following sequelae of a liver disease?

- Yes No Hepatic coma
- Yes No Portal hypertension
- Yes No History of bleeding esophageal varices (variceal bleeding)

GASTROINTESTINAL

- Inflammatory bowel disease (*patients with ulcerative colitis or regional enteritis*)
- Peptic ulcer (*cases who have required treatment for ulcer disease, including those w/have bleed from ulcers*)
- GI bleeding, except bleeding from peptic ulcer (*cases who have had bleeding requiring transfusions from causes other than ulcer disease*)
- Other gastrointestinal, specify

CANCER

- Metastatic solid tumor (*with documented metastasis*); Specify organ: _____
- Solid Tumor (*without documented metastasis*) Specify organ: _____
 Yes No Was the solid tumor initially treated in the last 5 years?
- Lymphoma (*patients with Hodgkins disease, lymphosarcoma, Waldensrorm', macroglobulinemia, myeloma, and other lymphomas*)
mark here if Hodgkins disease Multiple myeloma
- Leukemia
 If leukemia specify: Acute Chronic
- Other cancer (specify)

RHEUMATOLOGIC

- Scleroderma
- Systemic lupus erythematosus
- Polymyositis
- Rheumatoid arthritis
- Mixed connective tissue disease
- Moderate to severe arthritis
- Other rheumatoid disease or vasculitis, specify

- HIV infection
 Check, if AIDS
 Most recent CD4 count _____

- Sickle cell disease
- Other hemoglobinopathy, specify:
- Previous splenectomy or functional asplenia
- Liver, lung or bone marrow transplant (circle which)
- Alcoholism
- Intravenous drug use
- Other chronic diseases, specify:

SIGNS AND SYMPTIOMS

20) Specify Initial Symptoms:

- | | | |
|--|---|---|
| <input type="checkbox"/> Feverishness | <input type="checkbox"/> Runny nose, nasal congestion | <input type="checkbox"/> Headache |
| <input type="checkbox"/> Measured Fever (≥ 38 C) | <input type="checkbox"/> Abdominal pain | <input type="checkbox"/> Lethargy/Malaise |
| <input type="checkbox"/> Cough | <input type="checkbox"/> Diarrhea | <input type="checkbox"/> Weakness |
| <input type="checkbox"/> Difficulty breathing/SOB | <input type="checkbox"/> Vomiting | <input type="checkbox"/> Dizziness |
| <input type="checkbox"/> Sore throat | | <input type="checkbox"/> Muscle aches |
| | <input type="checkbox"/> Other: | <input type="checkbox"/> Seizures |

What triggered testing for influenza (*from the medical chart*) ?

-
- New onset of respiratory illness
-
- New fever
-
- Outbreak workup
-
- Other (specify)

COURSE OF ILLNESS after Influenza Onset21) Yes No Admitted to ICU due to influenza illness?

Date admitted: _____ Date discharged: _____

22) Yes No Mechanically ventilated due to influenza illness?23) Clinical Diagnoses (*as per MD notes in chart, clinical consult reports, check as many as applicable*):

- | | |
|--|--|
| <input type="checkbox"/> Influenza | <input type="checkbox"/> Pneumonia, <u>X-ray Confirmed?</u> <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Bronchiolitis | <input type="checkbox"/> Exacerbation COPD (AECB) |
| <input type="checkbox"/> Asthma | <input type="checkbox"/> Sepsis |
| <input type="checkbox"/> Otitis media | <input type="checkbox"/> Viral infection |
| <input type="checkbox"/> Other lower resp tract infection (specify): | <input type="checkbox"/> Fever |
| | <input type="checkbox"/> Other infection (specify): |
| <input type="checkbox"/> Other upper resp tract infection (specify): | <input type="checkbox"/> Other non-infectious diagnosis (specify): |

24) Complications of influenza episode (*check as many as applicable*) : No complications

- | | |
|---|--|
| <input type="checkbox"/> Myocardial infarction | <input type="checkbox"/> New arrhythmia: |
| <input type="checkbox"/> Unstable angina | <input type="checkbox"/> Episode of atrial fibrillation |
| <input type="checkbox"/> Stroke (cerebrovascular accident) | <input type="checkbox"/> Other arrhythmia, specify _____ |
| <input type="checkbox"/> Seizures | <input type="checkbox"/> C. difficile colitis |
| <input type="checkbox"/> Acute renal failure requiring dialysis | <input type="checkbox"/> Exacerbation of chronic disease process (specify) |
| <input type="checkbox"/> Fracture (specify which bone): | |
| <input type="checkbox"/> Other complication (specify): | |

25) Documented discharge diagnose(s) and disease (s) codes:

INFLUENZA TREATMENT IN THE HOSPITAL

26) Yes No In the hospital, were **antibiotics used to treat this episode?**

If Yes, Specify Date/Time administration of first antibiotic to treat this episode:

Date : _____ Time: _____

Name of first antibiotic drug: _____ dosage : _____

Specify name and dose of A/Bs used to treat this infection in the hospital : (use back of this page if required)

ANTIBIOTIC	DOSE& INTERVAL	START DATE	STOP DATE

27) Yes No In the hospital, were **anti-influenza drugs used to treat this infection?**

If Yes, Specify (mark that apply) name, dose, interval and duration of anti-influenza drug.

Specify Date/Time of administration of first dose of anti-influenza drug to treat this infection:

ANTI-INFLUENZA DRUG	DOSE	INTERVAL	DURATION (IN DAYS)	DATE OF FIRST DOSE	TIME OF FIRST DOSE
<input type="checkbox"/> Amantadine (Symmetrel)					
<input type="checkbox"/> Oseltamivir (Tamiflu)					
<input type="checkbox"/> Zanamivir (Relenza)					

DATE OF PATIENT CONSENT/INTERVIEW: _____

RISK ASSESSMENT

28) Yes No Unk Pregnant? (females only)
 If yes, specify gestational age in weeks at the time of influenza onset: _____ weeks

29) Yes No Unk Is the patient a current smoker?
 If yes, specify: _____ packs per day or _____ pack/yr

30) Yes No Unk Is the patient a Health Care Worker?
 If yes, specify occupation (e.g. RN, RT, paramedics): _____
 Type of institution or name of hospital/nursing home: _____

31) Yes No Unk Did the patient travel outside of Canada within **30 days prior to symptoms onset**
 If yes, specify the destination (city, country) _____
 Specify the dates: _____

32) Yes No Unk Does child attend day-care?
 Not applicable (>5 yrs old) If Yes, specify the name and address:

VACCINATION

33) Yes No Unk Has patient ever received **pneumococcal vaccine**?
 If Yes specify: Prevnar Pneumovax
 First dose _____ (dd/month/yyyy)
 Second dose _____
 Third dose _____

34) Yes No Unk Did patient receive **influenza vaccine** in the fall/winter of 2005/6?
 Date of vaccine (if available): _____ (dd/month/yyyy)
 If Yes, Location given:
 Family MD office Public Health Clinic Pharmacy clinic
 Other, specify:

35) Yes No Unk Had the patient **received influenza vaccine** in previous years?
 If yes, mark the seasons when received: (fall 2004) (fall 2003) (fall 2002) (fall 2001)

MEDICATION HISTORY BEFORE THE EPISODE OF INFLUENZA ILLNESS

36) Yes No Unk Has the patient been receiving **any prescription** medications prior to the influenza episode?

List all medications the patient was receiving IN THE HOSPITAL **ONE day** prior to the onset of influenza symptoms (**indicate antibiotics in Q37**)

37) No Unk Had patient received antibiotics **in the three months prior** to this episode?
INCLUDING ANTIBIOTICS RECEIVED DURING THIS HOSPITAL ADMISSION, BUT PRIOR TO INFLUENZA EPISODE)

Yes, patient was on regular antibiotics (e.g. prophylaxis for Otitis in winter mo):

ANTIBIOTIC	DOSE& INTERVAL	INDICATION	START DATE	STOP DATE

Yes, patient was treated for infection:

ANTIBIOTIC	DOSE& INTERVAL	INDICATION	START DATE	STOP DATE