

# Case Report Form

## **“Anti-Influenza Therapy in Hospitalized patients with Community-Acquired Pneumonia”**

**January 2012**

Principal Investigator: \_\_\_\_\_

Hospital: \_\_\_\_\_

Subject Name: \_\_\_\_\_

Medical Record Number: \_\_\_\_\_

Case # \_\_\_\_\_

## DEMOGRAPHICS

Sex: \_\_\_\_\_

Age: \_\_\_\_\_

Weight: \_\_\_\_\_

Height: \_\_\_\_\_

Data collection form done:             Prospective             Retrospective

Date of Arrival to Hospital: \_\_\_\_\_

Time of Arrival to Hospital: \_\_\_\_\_

Was the patient admitted to an intensive care unit on admission to the hospital?

- Yes
- No

Did the patient need ventilatory support?

- Invasive mechanical ventilation
- Non-invasive mechanical ventilation (e.g. CPAP/Bilevel)
- No

Did the patient need blood pressure support?

- Fluid resuscitation
- Vasopressors
- No

Was the patient transferred to an intensive care unit during the hospitalization?

- Yes            Date: \_\_\_\_\_
- No

Date of Discharge from the ICU: \_\_\_\_\_

Date of Discharge from the hospital: \_\_\_\_\_

Abstractor: \_\_\_\_\_

- If you have any questions regarding data collection please e-mail your question to Paula Peyrani, MD at [p0peyr01@louisville.edu](mailto:p0peyr01@louisville.edu)

Case # \_\_\_\_\_

# 1. DIAGNOSIS OF CAP

## Chest X-ray/CT scan within 24 hours of admission (CT scan overrides CXR findings)

Date of x-ray \_\_\_\_\_ Time of x-ray \_\_\_\_\_

- New pulmonary infiltrate  
 RUL    RML    RLL    LUL    LLL    Unspecified location    Cavitation  
 Interstitial Bilateral Infiltrate    Normal
- Pleural effusion  
 None    Right    Left    Bilateral

Date of CT scan \_\_\_\_\_ Time of CT scan \_\_\_\_\_  Not done

- New pulmonary infiltrate  
 RUL    RML    RLL    LUL    LLL    Unspecified location    Cavitation  
 Interstitial Bilateral Infiltrate    Normal
- Pleural effusion  
 None    Right    Left    Bilateral

### **Criteria for diagnosis of CAP\*:**

- A. New pulmonary infiltrate (at time of hospitalization)  Yes  No
- B. New or increased cough with/without sputum production  Yes  No
- C. Fever  $>37.8^{\circ}\text{C}$  ( $100.0^{\circ}\text{F}$ ) or hypothermia  $<35.6^{\circ}\text{C}$  ( $96.0^{\circ}\text{F}$ )  Yes  No
- D. Changes in WBC (leukocytosis, left shift, or leukopenia)  Yes  No

\*Diagnosis of CAP requires the presence of criteria A (new pulmonary infiltrate) plus at least one of criteria B, C, or D.

### **Diagnosis**

CAP                       COPD Exacerbation                       acute bronchitis

**If patient doesn't meet CAP criteria, the case SHOULD NOT be entered in the study web site**

Comment: \_\_\_\_\_

Case # \_\_\_\_\_

## **2. HISTORY AND PHYSICAL AT ADMISSION**

### **2.1. Number of days with respiratory symptoms before admission**

\_\_\_\_\_ days  
 Unknown

### **2.2 Past medical history**

|  |                           |                          |
|--|---------------------------|--------------------------|
| Neoplastic disease (active or within the last year)                    | <input type="radio"/> Yes | <input type="radio"/> No |
| Congestive heart failure   | <input type="radio"/> Yes | <input type="radio"/> No |
| Cerebrovascular disease  | <input type="radio"/> Yes | <input type="radio"/> No |
| Renal disease  | <input type="radio"/> Yes | <input type="radio"/> No |
| Liver disease  | <input type="radio"/> Yes | <input type="radio"/> No |
| Chronic Renal Failure  | <input type="radio"/> Yes | <input type="radio"/> No |
| Neurologic Diseases/Mental Illness                                     | <input type="radio"/> Yes | <input type="radio"/> No |
| Diabetes   | <input type="radio"/> Yes | <input type="radio"/> No |
| Prior Admission for CAP within 1 year                                  | <input type="radio"/> Yes | <input type="radio"/> No |
| Suspicion of Aspiration  | <input type="radio"/> Yes | <input type="radio"/> No |
| Cirrhosis  | <input type="radio"/> Yes | <input type="radio"/> No |
| Asplenia   | <input type="radio"/> Yes | <input type="radio"/> No |
| Acute alcoholism/alcoholic withdrawal                                  | <input type="radio"/> Yes | <input type="radio"/> No |
| IV steroids on admission:  | <input type="radio"/> Yes | <input type="radio"/> No |
| name   | _____                     |                          |
| dose   | _____                     |                          |
| On oral steroids prior to admission                                    | <input type="radio"/> Yes | <input type="radio"/> No |
| COPD   | <input type="radio"/> Yes | <input type="radio"/> No |
| If available, last FEV1 within the previous year                       | _____                     |                          |
| Home O <sub>2</sub>  | <input type="radio"/> Yes | <input type="radio"/> No |
| HIV positive   | <input type="radio"/> Yes | <input type="radio"/> No |
| If available, last CD <sub>4</sub> within the previous year (absolute) | _____                     |                          |
| last CD <sub>4</sub> within the previous year (%)                      | _____                     |                          |
| last viral load within the previous year                               | _____                     |                          |
| Duration of HIV seropositivity in years                                | _____                     |                          |
| On HAART   | <input type="radio"/> Yes | <input type="radio"/> No |
| Current episode of CAP as initial presentation of HIV                  | <input type="radio"/> Yes | <input type="radio"/> No |
| Prior AIDS defining illness  | <input type="radio"/> Yes | <input type="radio"/> No |
| Intravenous drug use   | <input type="radio"/> Yes | <input type="radio"/> No |
| Prior history of pneumonia   | <input type="radio"/> Yes | <input type="radio"/> No |
| Prior history of PCP   | <input type="radio"/> Yes | <input type="radio"/> No |
| Prior history of tuberculosis  | <input type="radio"/> Yes | <input type="radio"/> No |
| Antibiotic prophylaxis for PCP or MAC                                  | <input type="radio"/> Yes | <input type="radio"/> No |

### **2.3 Risk factors for healthcare-associated pneumonia (HCAP)**

|  |                           |                          |
|--|---------------------------|--------------------------|
| Nursing home resident                                  | <input type="radio"/> Yes | <input type="radio"/> No |
| Hospitalized ≥ 2 days in the prior 90 days             | <input type="radio"/> Yes | <input type="radio"/> No |
| IV antibiotic therapy in the prior 90 days             | <input type="radio"/> Yes | <input type="radio"/> No |
| Home infusion therapy (including ABT and chemotherapy) | <input type="radio"/> Yes | <input type="radio"/> No |
| Chronic dialysis within prior 30days                   | <input type="radio"/> Yes | <input type="radio"/> No |
| Home wound care  | <input type="radio"/> Yes | <input type="radio"/> No |

Case # \_\_\_\_\_

**2.4 Risk factors for Cardiovascular Events**

Family history of Coronary Artery Disease O Yes O No
Active Coronary Artery Disease O Yes O No
Essential arterial hypertension O Yes O No
Hyperlipidemia O Yes O No
Prior myocardial infarction O Yes O No
Prior PTCA / CABG / angioplasty O Yes O No
Atrial fibrillation O Yes O No

**2.5 Cardiovascular medications prior hospital admission**

Aspirin O Yes O No
Beta-blockers O Yes O No
ACE - I O Yes O No
Warfarin O Yes O No
Heparin O Yes O No
Antiplatelet: O Yes O No
Statins: O Yes O No

**2.6 Physical examination on admission**

Altered mental status on admission O Yes O No
Heart rate \_\_\_\_\_
Respiratory rate \_\_\_\_\_
Systolic blood pressure \_\_\_\_\_
Diastolic blood pressure \_\_\_\_\_
Temperature \_\_\_\_\_
O2 saturation \_\_\_\_\_ [ ] Not done

**2.7 Laboratory findings**

Hematocrit: \_\_\_\_\_ [ ] Not done
Hemoglobin: \_\_\_\_\_ [ ] Not done
WBC: \_\_\_\_\_ [ ] Not done
Bands: \_\_\_\_\_ [ ] Not done
Platelet Count: \_\_\_\_\_ [ ] Not done
Serum Sodium: \_\_\_\_\_ [ ] Not done
Serum Potassium: \_\_\_\_\_ [ ] Not done
Serum BUN: \_\_\_\_\_ units \_\_\_\_\_ [ ] Not done
Serum Creatinine: \_\_\_\_\_ [ ] Not done
Serum Bicarbonate: \_\_\_\_\_ [ ] Not done
Serum Glucose: \_\_\_\_\_ [ ] Not done
Albumin: \_\_\_\_\_ [ ] Not done
Serum Troponin I or T (1) \_\_\_\_\_ (2) \_\_\_\_\_ (3) \_\_\_\_\_ [ ] Not done
Serum CK-MB (1) \_\_\_\_\_ (2) \_\_\_\_\_ (3) \_\_\_\_\_ [ ] Not done
LDL: \_\_\_\_\_ [ ] Not done
HDL: \_\_\_\_\_ [ ] Not done
LDH: \_\_\_\_\_ [ ] Not done
Cholesterol: \_\_\_\_\_ [ ] Not done
Trygliceride: \_\_\_\_\_ [ ] Not done
Lactate: \_\_\_\_\_ units \_\_\_\_\_ elevated? O Yes O No [ ] Not done
BNP: \_\_\_\_\_ [ ] Not done
C-Reactive protein: \_\_\_\_\_ units \_\_\_\_\_ elevated? O Yes O No [ ] Not done
Procalcitonin: \_\_\_\_\_ units \_\_\_\_\_ elevated? O Yes O No [ ] Not done
Case # \_\_\_\_\_

Vitamin D \_\_\_\_\_ units \_\_\_\_\_ elevated? O Yes O No  Not done

### 2.7 Laboratory findings (continuation)

ABG: pH \_\_\_\_\_  Not done  
PaCO<sub>2</sub> \_\_\_\_\_  
PaO<sub>2</sub> \_\_\_\_\_  
Bicarbonate \_\_\_\_\_  
FiO<sub>2</sub> \_\_\_\_\_

**\*\* PSI score, CURB-65, and CRB-65 will be automatically calculated once all data have been entered \*\***

Comment: \_\_\_\_\_

## **3. RISK FACTORS FOR TUBERCULOSIS**

Check all that apply:

### **Symptoms:**

Night sweats  Hemoptysis  Weight loss  Hoarseness

### **Member of High Risk Group:**

HIV/AIDS positive  History of TB  
 History of positive PPD  Age > 65 years  
 Homeless  Community living (prison, nursing home, shelter)  
 Alcohol/Drug abuse  Recent exposure to Active TB  
 Health care worker  From area with high risk of tuberculosis

### **History of Chronic Illness:**

Silicosis  Diabetes Mellitus  
 End-Stage Renal Disease  Hematologic disease  
 Gastrectomy  Intestinal bypass  
 Cancer of Mouth or GI Tract  Chronic Malabsorption Syndrome  
 10% or below ideal body weight  Long term cortisone therapy  
 Other immunosuppressive state

**Number of risk factors present:** \_\_\_\_\_

Was patient diagnosed with pulmonary tuberculosis?

O Yes

O No

If Yes, enter the following information:

AFB smears positive  
 Cultures positive Source: \_\_\_\_\_  
 DNA amplification positive  
 Resistant *Mycobacterium Tuberculosis*

Comment: \_\_\_\_\_

Case # \_\_\_\_\_

#### 4. MICROBIOLOGICAL WORK-UP

Was the following work-up performed?

|                               |  |             |
|-------------------------------|--|-------------|
| Respiratory cultures:         | <input type="radio"/> Yes <input type="radio"/> No | Date: _____ |
| Blood cultures:               | <input type="radio"/> Yes <input type="radio"/> No | Date: _____ |
| Pneumococcal urinary antigen: | <input type="radio"/> Yes <input type="radio"/> No | Date: _____ |
| Legionella urinary antigen:   | <input type="radio"/> Yes <input type="radio"/> No | Date: _____ |
| Rapid flu test?               | <input type="radio"/> Yes <input type="radio"/> No | Date: _____ |
| Respiratory Viral Panel       | <input type="radio"/> Yes <input type="radio"/> No | Date: _____ |

Was the cause of the pneumonia identified?  Yes  No      Sample collection date: \_\_\_\_\_

If yes, what organism(s) were identified as the cause?

**Organism 1:** \_\_\_\_\_

Relevant susceptibilities:

What source(s)? - check all that apply

- |  |  |
|--|--|
| <input type="checkbox"/> Blood             | <input type="checkbox"/> Urinary antigen |
| <input type="checkbox"/> Sputum            | <input type="checkbox"/> Serology        |
| <input type="checkbox"/> Tracheal aspirate | <input type="checkbox"/> Other: _____    |
| <input type="checkbox"/> BAL               |  |

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Comment: \_\_\_\_\_

**Organism 2:** \_\_\_\_\_

Relevant susceptibilities:

What source(s)? - check all that apply

- |  |  |
|--|--|
| <input type="checkbox"/> Blood             | <input type="checkbox"/> Urinary antigen |
| <input type="checkbox"/> Sputum            | <input type="checkbox"/> Serology        |
| <input type="checkbox"/> Tracheal aspirate | <input type="checkbox"/> Other: _____    |
| <input type="checkbox"/> BAL               |  |

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Comment: \_\_\_\_\_

Case # \_\_\_\_\_

## 5. ANTIBIOTIC THERAPY

- Did the patient receive oral antibiotics during the last 30 days? O Yes  
O No
  
- Was the antibiotic given for the treatment of CAP? O Yes Name: \_\_\_\_\_  
O No
  
- Did the patient fail outpatient oral antibiotic therapy for CAP? O Yes O No

### **5.1 Antibiotics received for empiric therapy of CAP**

For the purpose of this clinical trial, “empiric therapy” is defined as all antibiotics started during the first 24 hours of hospitalization. Collect only the antibiotics (IV, PO, IM) STARTED during the first 24 hours of hospitalization (use date and time when the antibiotics were given; do not use physician’s orders).

- Initial antibiotic given Date: \_\_\_\_\_ Time: \_\_\_\_\_

| Antimicrobial | Dose | Route | Frequency | Start Date | Start Time | Stop Date |
|---------------|------|-------|-----------|------------|------------|-----------|
|               |      |       |           |            |            |           |
|               |      |       |           |            |            |           |
|               |      |       |           |            |            |           |

Please classify the empiric therapy based on the antibiotics received within the first 24 hours of admission.

- Beta-lactam monotherapy only
- Beta-lactam + macrolide combination only
- Beta-lactam + quinolone combination only
- Quinolone monotherapy only
- Any other antibiotic combination

Comment: \_\_\_\_\_



**5.2 Antibiotics received for the treatment of CAP after empiric therapy and before switch therapy**

Use this table to enter all the antibiotics STARTED for CAP AFTER the first 24 hours BUT BEFORE switching the patient to PO antibiotics:

| Antimicrobial | Route | Start date | Stop date |
|---------------|-------|------------|-----------|
|               |       |            |           |
|               |       |            |           |
|               |       |            |           |
|               |       |            |           |
|               |       |            |           |

Comment: \_\_\_\_\_

**5.3 Antibiotics received after switch to oral therapy (use the physician's orders)**

| Antimicrobial | Dose | Unit | Frequency | Start Date<br>(day physician ordered<br>oral antibiotics) | Stop Date |
|---------------|------|------|-----------|---|-----------|
|               |      |      |           |   |           |
|               |      |      |           |   |           |
|               |      |      |           |   |           |

Comment: \_\_\_\_\_

## 6. CLINICAL COURSE

### 6.1 Criteria for Clinical Stability / Switch therapy during first 7 days of hospitalization

Check the box when the criterion is met. Keep checking the criterion (if met) until four criteria are met on a single day

Definitions:

- Day 0 (day of admission or diagnosis) begins at the time of admission or diagnosis and ends at midnight that evening. If the patient is afebrile on day 0 or with normal WBC count, then the criteria is fulfill on day 0 and the box should be checked. Otherwise leave the box blank. See “Guidelines for completion of Case Report Form” for further clarification.
- Day 1 begins at 00:01 and ends at midnight. On days 1 through 7, answer “Cough and shortness of breath normal or improving” and “WBC normal or improving” in comparison to the day before. Check the box if the patient is improving or is back to baseline (before this illness). Continue checking the box until all 4 boxes are checked on one day.
- The first day that the 4 boxes are checked is the day that the patient reached clinical stability and is a candidate for switch therapy. If the patient does not meet all four criteria by day 7, the patient is not a candidate for switch therapy.
- If patient dies during first 7 days of hospitalization, check NK box for all 4 criteria.

|  | Day 0 | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | Day 6 | Day 7 | Day >7<br>or NK |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|
| Cough and shortness of breath<br>Normal or improving?                                      |       |       |       |       |       |       |       |       |                 |
| Afebrile for at least 8 hours?<br>( $< 37.8^{\circ} \text{C}$ , $< 100^{\circ} \text{F}$ ) |       |       |       |       |       |       |       |       |                 |
| WBC Normal or improving?<br>( $\downarrow > 10\%$ )  |       |       |       |       |       |       |       |       |                 |
| Oral intake and absorption are<br>adequate   |       |       |       |       |       |       |       |       |                 |

Comment: \_\_\_\_\_

### 6.2 Criteria for Clinical Failure.

These criteria should be checked until patient is discharged from the hospital or up to day 14 if patients is still hospitalized.

- Acute pulmonary deterioration with the need of:
  - Invasive ventilation                     Yes    No   Date: \_\_\_\_\_
  - Non-invasive ventilation                 Yes    No   Date: \_\_\_\_\_
- Acute hemodynamic deterioration with the need of:
  - Aggressive fluid resuscitation         Yes    No   Date: \_\_\_\_\_
  - Vasopressors                                 Yes    No   Date: \_\_\_\_\_
- Death during hospitalization             Yes    No   Date: \_\_\_\_\_

Comment: \_\_\_\_\_

If any of the clinical failure criteria is checked, please complete the following section etiology of failure.

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### 6.3 Etiology of clinical failure

Please first select if the failure was related to CAP (option A), not related to CAP (option B), or the cause is unable to be determined (option C). For option A and B, please select all that apply.

**O A. Failure related to CAP:** defined as failure related to the pulmonary infection and/or the inflammatory response. In this scenario, the patient usually deteriorates during the first week of hospitalization.

**A1. Progression of CAP**

1. Progressive pneumonia

**A2. CAP complicated with**

2. Empyema  
 3. Endocarditis  
 4. Meningitis  
 5. Other: \_\_\_\_\_

**A3. Severe sepsis due to CAP**

6. ARDS  
 7. Septic shock  
 8. Liver failure  
 9. Renal Failure  
 10. Coagulopathy  
 11. Encephalopathy  
 12. Other.....

**A4. Medical complication or deterioration of comorbidities related to the systemic inflammatory response**

13. Pulmonary embolism  
 14. Myocardial infarction  
 15. Cardiac arrhythmia  
 16. GI bleeding  
 17. Congestive heart failure  
 18. COPD  
 19. Diabetes  
 20. Renal disease  
 21. Other.....

Comment: \_\_\_\_\_

**O B. Failure not related to CAP:** defined as failure after the pulmonary infection and/or the inflammatory response. In this scenario, the patient usually improves during the first week of hospitalization and then deteriorates.

**B1. Complication due to the management of CAP**

1. Hemo / Pneumothorax (iatrogenic)  
 2. HAP / VAP  
 3. Allergic reaction to ABT  
 4. IV line infection  
 5. C. diff. colitis  
 6. Nosocomial UTI  
 7. Other: \_\_\_\_\_

**B2. Medical complication or deterioration of comorbidities not due to the pulmonary infection**

1. Pulmonary embolism  
 2. Myocardial infarction  
 3. GI bleeding  
 4. Congestive heart failure  
 5. COPD  
 6. Diabetes  
 7. Renal disease  
 8. Neoplastic disease  
 9. Other: \_\_\_\_\_

Comment: \_\_\_\_\_

**O C. Unknown:** defined as the lack of information to classify the etiology

Comment: \_\_\_\_\_

Adult Smoking history

Pack/Year: \_\_\_\_\_

Case # \_\_\_\_\_

## **7. CARDIOVASCULAR EVENTS**

Please the following information during hospitalization up to 30 days.

Was the patient taking antithrombotic prophylaxis during the hospitalization?     Yes    No

Was the patient taking systemic steroids during the hospitalization?                 Yes    No

### **7.1 Development of acute myocardial infarction**

• Yes             On admission             During hospitalization on Date: \_\_\_\_\_

STEMI             NSTEMI             Q wave             No Q wave

No

### **7.2 Pulmonary edema due to congestive heart failure (acute cardiogenic pulmonary edema)**

• Yes             On admission             During hospitalization on Date: \_\_\_\_\_

No

### **7.3 Development of new serious arrhythmia**

• Yes             On admission             During hospitalization on Date: \_\_\_\_\_

Flutter

Atrial Fibrillation

Junctional SupraVentricular

Ventricular tachycardia

                  Other: \_\_\_\_\_

No

### **7.4 Acute worsening of a long-term arrhythmia**

• Yes             On admission             During hospitalization on Date: \_\_\_\_\_

Atrial fibrillation → flutter

Switch of classes in Lown classification

Other: \_\_\_\_\_

No

### **7.5 Cerebrovascular accident**

• Yes             On admission             During hospitalization on Date: \_\_\_\_\_

No

### **7.6 Pulmonary embolism**

• Yes             On admission             During hospitalization on Date: \_\_\_\_\_

No

Comment: \_\_\_\_\_

Case # \_\_\_\_\_

## 8. CLINICAL OUTCOME

### 8.1 Outcome at hospital discharge or up to day 30 if patient still hospitalized

■ **ALIVE**

Success

■ **DEAD**

Death due to CAP

Death unrelated to CAP

Other, please comment

Comment: \_\_\_\_\_

### 8.2 If discharged alive, please indicate to where:

1. Home

2. Other hospital

3. Hospice

4. Long-term care facility

5. Other, specify \_\_\_\_\_

6. Unknown

Comment: \_\_\_\_\_

### OUTCOME AT DAY 30

this outcome should be evaluated at day 30 from the day of enrollment (clinic visit, telephone call) if the information is available

Alive, no record of re-hospitalization

Alive, with record of re-hospitalization due to CAP. Date (mm/dd/yyyy) \_\_\_\_\_

Alive, with record of re-hospitalization due to other reasons. Date (mm/dd/yyyy) \_\_\_\_\_

Dead, Date (mm/dd/yyyy) \_\_\_\_\_

Information not available

1. Where do you live currently?

Home by myself

Home with family

Long-term care facility

Homeless

Other, specify \_\_\_\_\_

Refuse to tell

Comment: \_\_\_\_\_

Case # \_\_\_\_\_

2. If in group B, did you finish taking Tamiflu at home after leaving the hospital?

- Yes
- No

3. While you were finishing the Tamiflu or in the week after, did you have any side effects from the drug that you remember?

- Yes
- No

4. Do you have any of the following symptoms?

- |                     |                         |                         |                          |
|---------------------|-------------------------|-------------------------|--------------------------|
| Cough               | <input type="radio"/> Y | <input type="radio"/> N | <input type="radio"/> DK |
| Shortness of breath | <input type="radio"/> Y | <input type="radio"/> N | <input type="radio"/> DK |
| Wheezing            | <input type="radio"/> Y | <input type="radio"/> N | <input type="radio"/> DK |
| Fever               | <input type="radio"/> Y | <input type="radio"/> N | <input type="radio"/> DK |
| Chills              | <input type="radio"/> Y | <input type="radio"/> N | <input type="radio"/> DK |

5. At this time, would you say your health is

- Excellent
- Very Good
- Good
- Fair
- Poor
- Don't know/Refuse to tell

6. At this time, can you walk a quarter a mile-or 2 or 3 blocks without problems?

- No, I don't have difficulty
- Yes, I have difficulty but can manage
- Yes, I'm unable to do this activity
- Don't know/Refuse to tell

7. At this time, do you have difficulty doing the following activities without special equipment or help from another person?

|                                  | No, I do not<br>have difficulty | Yes, I have<br>difficulty but<br>can manage | Yes, I'm not<br>able to do it | DK                       | RTT                      |
|----------------------------------|---------------------------------|---|-------------------------------|--------------------------|--------------------------|
| Bathing.....                     | <input type="checkbox"/>        | <input type="checkbox"/>                    | <input type="checkbox"/>      | <input type="checkbox"/> | <input type="checkbox"/> |
| Dressing.....                    | <input type="checkbox"/>        | <input type="checkbox"/>                    | <input type="checkbox"/>      | <input type="checkbox"/> | <input type="checkbox"/> |
| Eating.....                      | <input type="checkbox"/>        | <input type="checkbox"/>                    | <input type="checkbox"/>      | <input type="checkbox"/> | <input type="checkbox"/> |
| Getting in or out of chairs..... | <input type="checkbox"/>        | <input type="checkbox"/>                    | <input type="checkbox"/>      | <input type="checkbox"/> | <input type="checkbox"/> |
| Walking.....                     | <input type="checkbox"/>        | <input type="checkbox"/>                    | <input type="checkbox"/>      | <input type="checkbox"/> | <input type="checkbox"/> |
| Using the toilet.....            | <input type="checkbox"/>        | <input type="checkbox"/>                    | <input type="checkbox"/>      | <input type="checkbox"/> | <input type="checkbox"/> |

Comment: \_\_\_\_\_

Case # \_\_\_\_\_

**OUTCOME AT 6 MONTHS**

this outcome should be evaluated at 6 months from the day of enrollment (clinic visit, telephone call) if the information is available

- Alive, no record of re-hospitalization
- Alive, with record of re-hospitalization due to CAP. Date (mm/dd/yyyy) \_\_\_\_\_
- Alive, with record of re-hospitalization due to other reasons. Date (mm/dd/yyyy) \_\_\_\_\_
- Dead, Date (mm/dd/yyyy) \_\_\_\_\_
- Information not available

1. Where do you live currently?

- Home by myself
- Home with family
- Long-term care facility
- Homeless
- Other, specify \_\_\_\_\_
- Refuse to tell

2. At this time, would you say your health is

- Excellent
- Very Good
- Good
- Fair
- Poor
- Don't know/Refuse to tell

3. At this time, can you walk a quarter a mile-or 2 or 3 blocks without problems?

- No, I don't have difficulty
- Yes, I have difficulty but can manage
- Yes, I'm unable to do this activity
- Don't know/Refuse to tell

4. At this time, do you have difficulty doing the following activities without special equipment or help from another person?

|                                  | No, I do not<br>have difficulty | Yes, I have<br>difficulty but<br>can manage | Yes, I'm not<br>able to do it | DK                       | RTT                      |
|----------------------------------|---------------------------------|---|-------------------------------|--------------------------|--------------------------|
| Bathing.....                     | <input type="checkbox"/>        | <input type="checkbox"/>                    | <input type="checkbox"/>      | <input type="checkbox"/> | <input type="checkbox"/> |
| Dressing.....                    | <input type="checkbox"/>        | <input type="checkbox"/>                    | <input type="checkbox"/>      | <input type="checkbox"/> | <input type="checkbox"/> |
| Eating.....                      | <input type="checkbox"/>        | <input type="checkbox"/>                    | <input type="checkbox"/>      | <input type="checkbox"/> | <input type="checkbox"/> |
| Getting in or out of chairs..... | <input type="checkbox"/>        | <input type="checkbox"/>                    | <input type="checkbox"/>      | <input type="checkbox"/> | <input type="checkbox"/> |
| Walking.....                     | <input type="checkbox"/>        | <input type="checkbox"/>                    | <input type="checkbox"/>      | <input type="checkbox"/> | <input type="checkbox"/> |
| Using the toilet.....            | <input type="checkbox"/>        | <input type="checkbox"/>                    | <input type="checkbox"/>      | <input type="checkbox"/> | <input type="checkbox"/> |

Comment: \_\_\_\_\_

Case # \_\_\_\_\_

**OUTCOME AT 1 Year**

this outcome should be evaluated at one year from the day of enrollment (clinic visit, telephone call) if the information is available

- Alive, no record of re-hospitalization
- Alive, with record of re-hospitalization due to CAP. Date (mm/dd/yyyy) \_\_\_\_\_
- Alive, with record of re-hospitalization due to other reasons. Date (mm/dd/yyyy) \_\_\_\_\_
- Dead, Date (mm/dd/yyyy) \_\_\_\_\_
- Information not available

1. Where do you live currently?

- Home by myself
- Home with family
- Long-term care facility
- Homeless
- Other, specify \_\_\_\_\_
- Refuse to tell

2. At this time, would you say your health is

- Excellent
- Very Good
- Good
- Fair
- Poor
- Don't know/Refuse to tell

3. At this time, can you walk a quarter a mile-or 2 or 3 blocks without problems?

- No, I don't have difficulty
- Yes, I have difficulty but can manage
- Yes, I'm unable to do this activity
- Don't know/Refuse to tell

4. At this time, do you have difficulty doing the following activities without special equipment or help from another person?

|                                  | No, I do not<br>have difficulty | Yes, I have<br>difficulty but<br>can manage | Yes, I'm not<br>able to do it | DK                       | RTT                      |
|----------------------------------|---------------------------------|---|-------------------------------|--------------------------|--------------------------|
| Bathing.....                     | <input type="checkbox"/>        | <input type="checkbox"/>                    | <input type="checkbox"/>      | <input type="checkbox"/> | <input type="checkbox"/> |
| Dressing.....                    | <input type="checkbox"/>        | <input type="checkbox"/>                    | <input type="checkbox"/>      | <input type="checkbox"/> | <input type="checkbox"/> |
| Eating.....                      | <input type="checkbox"/>        | <input type="checkbox"/>                    | <input type="checkbox"/>      | <input type="checkbox"/> | <input type="checkbox"/> |
| Getting in or out of chairs..... | <input type="checkbox"/>        | <input type="checkbox"/>                    | <input type="checkbox"/>      | <input type="checkbox"/> | <input type="checkbox"/> |
| Walking.....                     | <input type="checkbox"/>        | <input type="checkbox"/>                    | <input type="checkbox"/>      | <input type="checkbox"/> | <input type="checkbox"/> |
| Using the toilet.....            | <input type="checkbox"/>        | <input type="checkbox"/>                    | <input type="checkbox"/>      | <input type="checkbox"/> | <input type="checkbox"/> |

Comment: \_\_\_\_\_

Case # \_\_\_\_\_



## 9. PREVENTION OF CAP

**9A. Indicator:** Was the patient given pneumococcal vaccination?

- Yes
- No, variance justified, patient already received the vaccine
- No, variance justified, patient refused
- No, variance justified, patient died
- No, variance unjustified

Comment: \_\_\_\_\_

**9B. Indicator:** Was the patient given influenza vaccination?

- Yes
- No, variance justified, patient already received the vaccine
- No, variance justified, patient refused
- No, variance justified, patient died
- No, variance justified, out of season
- No, variance unjustified

Comment: \_\_\_\_\_

Adult smoking history

- Current smoker
- History of smoking
- Non-smoking history
- Not document or not assessed

**9C. Indicator:** In patients who smoke, was smoking cessation offered?

- Yes
- No, variance justified, patient unable to understand
- No, variance justified, patient died
- Not applicable, patient does not smoke
- Not applicable, unknown history
- No

Comment: \_\_\_\_\_

Case # \_\_\_\_\_

## 10. INFLUENZA A and B VIRUS SPECIFIC DATA

### 1. Demographics

If patient is a woman, was she pregnant?     Yes    No  
   1<sup>st</sup> trimester                      2<sup>nd</sup> trimester                      3<sup>rd</sup> trimester

If patient is a woman, was she in the puerperal state?     Yes    No

### 2. Criteria for diagnosis of Influenza A or B virus infection

Definitive: positive RT-PCR or Luminex Influenza A or B virus    Date sample obtained: \_\_\_\_\_

Presumptive: if positive test (any test) for Influenza A or B

Suspected: if clinical presentation is compatible with Influenza

### 3. History and physical on admission

|                          |  |                   |  |
|--------------------------|--|-------------------|--|
| Sudden onset of symptoms | <input type="radio"/> Yes <input type="radio"/> No | Myalgia           | <input type="radio"/> Yes <input type="radio"/> No |
| Rhinorrhea               | <input type="radio"/> Yes <input type="radio"/> No | Arthralgia        | <input type="radio"/> Yes <input type="radio"/> No |
| Wheezing                 | <input type="radio"/> Yes <input type="radio"/> No | Dyspnea           | <input type="radio"/> Yes <input type="radio"/> No |
| Headaches                | <input type="radio"/> Yes <input type="radio"/> No | Sputum production | <input type="radio"/> Yes <input type="radio"/> No |
| Sore throat              | <input type="radio"/> Yes <input type="radio"/> No | Diarrhea          | <input type="radio"/> Yes <input type="radio"/> No |

### 4. Labs

Lymphocyte count                     \_\_\_\_\_                     ALT: \_\_\_\_\_  
Serum CK                                     \_\_\_\_\_                     AST: \_\_\_\_\_

### 5. Treatment

Oseltamivir                      Yes    No  
  If yes                     dose                     \_\_\_\_\_ mg    every \_\_\_\_\_ hours  
   start date                     \_\_\_\_\_  
   stop date                     \_\_\_\_\_

Zanamivir                      Yes    No  
  If yes                     dose                     \_\_\_\_\_ mg    every \_\_\_\_\_ hours  
   start date                     \_\_\_\_\_  
   stop date                     \_\_\_\_\_

Steroids                      Yes    No  
  If yes                     name                     \_\_\_\_\_  
   dose                     \_\_\_\_\_ mg    every \_\_\_\_\_ hours  
   start date                     \_\_\_\_\_  
   stop date                     \_\_\_\_\_

ECMO                      Yes    No

Case # \_\_\_\_\_

Comment: \_\_\_\_\_

## **COMMENTS**

Please provide comments for any significant information that needs clarification.

For cases of Swine influenza pneumonia, please write a summary of the case.

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- After the case is entered, please click on the submit button
- You will be contacted by the study center at the University of Louisville hospital if any data entry needs further clarifications.

Case # \_\_\_\_\_