PNEUMOCYSTIS CARINII: SURVEILLANCE FOR DRUG-RESISTANCE
PCP CHART ABSTRACTION FORM
June 24, 2004

Type of Chart Abstraction: Positive………………..1
Negative………………..2

PCP study number: ..................................................

Data abstractor’s ID: _______|______|________|

Hospital Name: ____________________________

Date of chart review: [____|____|____|____] (MM/DD/YYYY)

Date of admission: [____|____|____|____] (MM/DD/YYYY)

Date of discharge: [____|____|____|____] (MM/DD/YYYY)
SECTION A: BACKGROUND INFORMATION

A1. Patient Date of Birth: [___|___|-|___|___|] (MM/YYYY)

A2. Patient State of Birth: ________________________________ /___/___/
   If outside of the U.S., country of birth ________________________________ /___/___/
   (If unknown, code as /9/9/)

A3. State and Zip Code of Current Residence:
   CITY ___________________
   STATE ___________________
   ZIP CODE ___________________
   (For unknown Zip code, code as “99999”)
   (For homeless, code as “00000”)

A4. Patient Gender (at birth): Male...........................1
   Female........................2

A5a. What ethnic group is the subject considered to be?
   □ Hispanic/Latino
   □ Not Hispanic/Latino
   □ Not Specified

A5b. What racial group is the subject considered to be?
   (Other is not an option. Respondents must be instructed that they may choose more than one
   option)
   □ White
   □ African American or Black
   □ Asian
   □ American Indian or Alaska Native
   □ Native Hawaiian or other Pacific Islander
   □ Not Specified

A6. Was patient aware of his/her HIV infection before this admission?
   Yes…………………………………. 1
   No………………………………….. 2
   Unknown……………………………. 9

A7. Date of first laboratory diagnosis of HIV: [___|___|-|___|___|-|___|___|___|___|___|]  
   MM-DD-YYYY
   (Code with year only if month and day unknown. If HIV infection first documented during this
   hospitalization, enter date serum specimen for HIV test was drawn. If HIV infection has never been
   documented, leave blank.)
A8. Indicate the reliability of information on date of HIV infection (circle one).
   Date documented in chart by previous lab report…………………. 1
   Date mentioned in a clinic/admission note………………………... 2
   Other……………………………………………………………….. 3

A9. Indicate if the patient had a previous CD4 count documented to be <200 or had an AIDS-defining illness.
   Note to abstractors: some typical AIDS-defining illness: PCP, disseminated MAC, toxoplasmosis, microsporidiosis, thrush, CMV retinitis, chronic cryptosporidiosis, extrapulmonary TB.
   Yes………………………………….. 1
   No…………………………………… 2 (Go to A11)
   Unknown……………………………. 9 (Go to A11)

A10. Enter earliest date that patient had an AIDS-defining illness or CD4 count < 200.
   |___|___|-|___|___|-|___|___|___|___|
   MM     -    DD   -   YYYY

A11. History of Pneumocystis pneumonia prior to this hospitalization?
    Yes…………………………………………………….. 1
    No…………………………………………………… 2 (Go to next section)
    Unknown……………………………………………. 9 (Go to next section)

A12. Date of most recent PCP diagnosis |___|___|-|___|___|-|___|___|___|___|
     (MM-DD-YYYY)

A13. This most recent PCP episode was (circle one):
    Presumptive…….. 1
    Lab diagnosed ….. 2
    Unknown………… 9

A14. Was treatment with TMP/SMX used during this most recent PCP episode?
    Yes………………………………….. 1
    No…………………………………… 2
    Unknown……………………………. 9
SECTION X: DIAGNOSTIC EVALUATION

X1. Sputum Induction Result (PCP)
   Positive.................................................................................1
   Negative................................................................................2
   Not done................................................................................3 (Go to X3)

X2. Sputum Induction Date |____|____|-|____|____|-|____|____|-|____|____| (MM/DD/YYYY)

X3. Bronchoalveolar lavage
   Positive.................................................................................1
   Negative...................................................................................2
   Not done..................................................................................3 (Go to X5)

X4. Bronchoalveolar lavage Date |____|____|-|____|____|-|____|____|-|____|____| (MM/DD/YYYY)

X5a. Additional specimen
   ☐ Sputum (go to X5b)
   ☐ Bronchoalveolar lavage (go to X5c)
   ☐ Not done (go to X6)

X5b. Additional Sputum Result
   Positive.................................................................................1 (go to X5d)
   Negative....................................................................................2 (go to X5d)

X5c. Additional Bronchoalveolar Lavage Result
   Positive.................................................................................1 (go to X5e)
   Negative....................................................................................2 (go to X5e)

X5d. Additional Sputum Specimen Date |____|____|-|____|____|-|____|____|-|____|____| (MM/DD/YYYY)

X5e. Additional Bronchoalveolar Lavage Specimen Date
   |____|____|-|____|____|-|____|____|____|____| (MM/DD/YYYY)

X6. If microscopic diagnosis of PCP made, indicate semi-quantitative result of FIRST positive specimen:
   Rare......................................................................................1
   Few.........................................................................................2
   Moderate ..................................................................................3
   Many .........................................................................................4
X7. If NO microscopic diagnosis of PCP made, was the subject empirically treated for PCP?
   Yes.........................................................................................1
   No.........................................................................................2
   Unknown..............................................................................9

X8. List “other” concurrent AND contributory PULMONARY diagnosis(es) during this hospitalization:

_____________________ _____________________ _____________________
_____________________ _____________________ _____________________
_____________________ _____________________ _____________________
## SECTION B: LAB VALUES

Fill in the following table with the most recent CD4 count and viral load obtained before admission and the most recent values obtained during or after admission.

### B1. CD4

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### B2. Viral Load (HIV RNA)

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<td><strong>During/after admission</strong></td>
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</table>

### B3. Indicate type of test used to determine viral load (circle appropriate test).

- Quantitative PCR........1
- Branch Chain DNA.........2
- NASBA ....................3
- Unknown ..................4

### B4. Please refer to SECTION X. Skip to B5.

### B5. Enter first serum LDH value that best represents the level when patient was diagnosed with PCP. Use the following guideline for selecting the best date. If the patient had at least one LDH value obtained in the 14 days before the diagnosis of PCP, enter the value for the specimen closest to the date of diagnosis. If no LDH was obtained in the 14 days before the date of PCP diagnosis, but an LDH level was obtained within 7 days after the PCP diagnosis, enter the first LDH value obtained after PCP diagnosis. If no LDH value was obtained in either of these two windows, code as “00”.

<table>
<thead>
<tr>
<th>LDH value</th>
<th>Date collected (MM – DD - YYYY)</th>
</tr>
</thead>
<tbody>
<tr>
<td>_____</td>
<td>[date]</td>
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</tbody>
</table>
B6. Enter first serum albumin value obtained near PCP diagnosis date – use same criteria as for LDH.

Albumin  Date collected (MM – DD - YYYY)

_______  |___|___|-|___|___|-|___|___|___|___|

B6b. Patient weight after admission: ___________________  Circle one:    Pounds    Kilograms
Note: Record first or closest weight measured after admission.

|___|___|-|___|___|-|___|___|___|___| (MM-DD-YYYY)

B7. Indicate amount of oxygen that was ordered for the patient when they were admitted to their hospital room (not in ER).
Room air (no oxygen) …………………………. 1
2-6 liters of oxygen by nasal canula……….. 2
Oxygen by face mask …………………………. 3
Patient was intubated ………………………. 4
Other…………………………………………… 5

Specify:_______________________________________________
Unknown ………………………………………. 9

B8. Was an arterial blood gas (ABG) obtained within 24 hours before or after admission?
Yes…………………………………………  1
No…………………………………………  2 (Go to B13)
Unknown………………………….  9 (Go to B13)

B9. Date of ABG:  |___|___|-|___|___|-|___|___|___|___|
(MM - DD - YYYY)

B10. If an ABG was obtained within 24 hours, enter the results of that ABG. If no room air ABG was obtained, enter the results of first ABG.

pH ________
pCO2 ________
pO2 ________

B11. Indicate whether or not ABG was obtained on room air and, if patient was receiving supplemental oxygen, how much:
Room air (no supplemental oxygen)……….. 1 (Go to B13)
2-6 liters of oxygen by nasal canula……….. 2 (Go to B13)
Oxygen by face mask………………….. 3 (Go to B13)
Patient was intubated ………………………. 4 (Go to B12)
Unknown ………………………………………. 9

B13. Was patient intubated at any time during this hospitalization?
   Yes.....................................................................1
   No.....................................................................2 (Go to B15)
   Unknown................................................................9 (Go to B15)

B14. First intubated on |____|____|-|____|____| (MM/DD/YYYY)
    Last extubated on |____|____|-|____|____| (MM/DD/YYYY)


B16a. Did patient have a pneumothorax at admission?
   Yes.....................................................................1
   No.....................................................................2
   Unknown................................................................9

B16b. Did patient develop a pneumothorax at any time during this hospitalization?
   Yes.....................................................................1
   No.....................................................................2
   Unknown................................................................9

B17. Date of entry to ICU: |____|____|-|____|____| (MM-DD-YYYY)
    Number of days in ICU: |____|____|
SECTION C: PREHOSPITALIZATION MEDICATION HISTORY

In this section, record information about medications that the patient had been prescribed and should have been taking anytime in the 3 months before being admitted to the hospital with PCP.

C1. Was patient prescribed any medication as prophylaxis for PCP?
   Yes........................................... 1
   No............................................ 2 (Go to C3)
   Unknown.................................. 9 (Go to C3)

C2. Check all that were prescribed and indicate dose/frequency.

<table>
<thead>
<tr>
<th>PROPHYLAXIS</th>
<th>DOSE</th>
<th>Do chart notes indicate that patient might not have been taking prophylaxis prescribed? If yes, circle ‘not taking as prescribed’</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trimethoprim-Sulfamethoxazole</td>
<td></td>
<td>Not taking as prescribed</td>
</tr>
<tr>
<td>(Bactrim/Septa/Sulfatrim)</td>
<td></td>
<td></td>
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<tr>
<td>Pentamidine</td>
<td></td>
<td>Not taking as prescribed</td>
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<tr>
<td>(NebuPent/Pentam-300)</td>
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<td></td>
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<tr>
<td>Dapsone</td>
<td></td>
<td>Not taking as prescribed</td>
</tr>
<tr>
<td>Atovaquone (Mepron)</td>
<td></td>
<td>Not taking as prescribed</td>
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<tr>
<td>Other (Specify below)</td>
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<tr>
<td>Specify Name</td>
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</tr>
</tbody>
</table>

C3. Was patient prescribed any anti-retroviral medications?
   Yes........................................... 1 (Continue to C4)
   No............................................ 2 (Go to Section D)
   Unknown.................................. 9 (Go to Section D)
C4.

<table>
<thead>
<tr>
<th>ANTI-RETROVIRALS</th>
<th>DOSE</th>
<th>Does chart note indicate that patient might not be taking anti-retrovirals prescribed? If yes, circle ‘not taking as prescribed’</th>
</tr>
</thead>
<tbody>
<tr>
<td>AZT/ZDV/Zidovudine (Retrovir)</td>
<td>Not taking as prescribed</td>
<td></td>
</tr>
<tr>
<td>3TC/Lamivudine (Epivir)</td>
<td>Not taking as prescribed</td>
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</tr>
<tr>
<td>AZT+3TC combo (Combivir)</td>
<td>Not taking as prescribed</td>
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<tr>
<td>ddI/Didanosine (Videx)</td>
<td>Not taking as prescribed</td>
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<tr>
<td>ddC/Zalcitabine (HIVID)</td>
<td>Not taking as prescribed</td>
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<tr>
<td>d4T/Stavudine (Zerit)</td>
<td>Not taking as prescribed</td>
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<tr>
<td>ABC/Abacavir (Ziagen)</td>
<td>Not taking as prescribed</td>
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<tr>
<td>Saquinavir (Invirase/Fortovase)</td>
<td>Not taking as prescribed</td>
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<tr>
<td>Ritonavir (Norvir)</td>
<td>Not taking as prescribed</td>
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<td>Indinavir (Crixivan)</td>
<td>Not taking as prescribed</td>
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<tr>
<td>Nelfinavir (Viracept)</td>
<td>Not taking as prescribed</td>
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<tr>
<td>Amprenavir (Agenerase)</td>
<td>Not taking as prescribed</td>
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<td>Tenofovir (Viread)</td>
<td>Not taking as prescribed</td>
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<td>Nevirapine (Viramune)</td>
<td>Not taking as prescribed</td>
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<tr>
<td>Delavirdine (Rescriptor)</td>
<td>Not taking as prescribed</td>
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<tr>
<td>Efavirenz (Sustiva)</td>
<td>Not taking as prescribed</td>
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<tr>
<td>Lopinavir/Ritonavir (Kaletra)</td>
<td>Not taking as prescribed</td>
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<td>AZT+3TC+ABC (Trizivir)</td>
<td>Not taking as prescribed</td>
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<tr>
<td>Other</td>
<td>Not taking as prescribed</td>
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**SECTION D: PCP MEDICATIONS USED DURING HOSPITALIZATION**

Do not include steroids or drugs used for PCP prophylaxis (e.g., Bactrim 1 pill/day or less; dapsone 100 mg/day by itself)

Do include: TMP-SMZ IV; TMP-SMZ po if dose >1 pill/day; pentamidine; clindamycin+primaquine; dapsone+trimethoprim; atovaquone 750 mg q8h)

<table>
<thead>
<tr>
<th>Drug</th>
<th>IV or PO</th>
<th>Dose</th>
<th>Frequency</th>
<th>Start Date (MM/DD)</th>
<th>Stop Date (MM/DD)</th>
<th>Improvement</th>
<th>Reason for changing/stopping medication</th>
<th>Number of Doses NOT Given as Prescribed: FIRST 7 DAYS of Tx</th>
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<td>1: Improved or continued to do well</td>
<td>1: Dose changed (drug stayed the same)</td>
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<td>2: Worsened or continued to be ill</td>
<td>2: Improved, so changed to oral meds</td>
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<td>3: Unknown</td>
<td>3: Discharged (doing well)</td>
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<td>4: Adverse reaction (changed to another drug)</td>
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<td>5: Failed to improve (changed to another drug)</td>
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<td>7: Other (describe)</td>
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<tr>
<td>Drug</td>
<td>IV or PO</td>
<td>Dose</td>
<td>Frequency</td>
<td>Start Date (MM/DD)</td>
<td>Stop Date (MM/DD)</td>
<td>Improvement</td>
<td>Reason for changing/stopping medication:</td>
<td>Number of Doses NOT Given as Prescribed: FIRST 7 DAYS of Tx</td>
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<td>2: Improved, so changed to oral meds</td>
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<td>3: Discharged (doing well)</td>
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<td>4: Adverse reaction (changed to another drug)</td>
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<td>5: Failed to improve (changed to another drug)</td>
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<td>7: Other (describe)</td>
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Improvement:
1: Improved or continued to do well
2: Worsened or continued to be ill
3: Unknown
D2. Was patient prescribed steroids (prednisone, prednisolone, solumedrol) as adjunct therapy for PCP?

Yes............................................................... 1
No.................................................................... 2
Unknown...................................................... 9

D3. Was the patient treated with TMP/SMZ (e.g. Bactrim, Septra) at any time during hospitalization?

Yes............................................................... 1
No.................................................................... 2 (Go to Section E)

D4. If yes, was treatment changed to another drug during their hospitalization?

Yes............................................................... 1
No.................................................................... 2 (Go to Section E)

D5. If yes, was treatment changed due to poor response?

Yes............................................................... 1
No.................................................................... 2 (Go to Section E)
Unknown...................................................... 9 (Go to Section E)

D6. How was poor response to therapy determined?
(Circle all that apply, then go to Section E)

Worsening CXR or failure to improve as noted in physician’s notes...........1
Increasing or non-improving oxygen requirements.................................2
Poor clinical response............................................................................3
Specify______________________________________________________________ |___|___|
Other....................................................................................................7
Specify______________________________________________________________ |___|___|
Unknown...............................................................................................9
SECTION E: PCP HOSPITALIZATION and POSTHOSPITALIZATION COURSE

E1. Did the patient die during this hospitalization?
   Yes........................................................ 1 (Go to E5)
   No......................................................... 2

E2. Was patient rehospitalized for PCP within 1 month of discharge?
   Yes........................................................ 1
   No..........................................................2 (Go to E4)
   Unknown............................................... 9 (Go to E4)

E3. Date of rehospitalization:  [___] [___] [-] [___] [___] [-] [___] [___] [___] [___]
   (MM - DD - YYYY)

E4. Did the patient die after discharge but within 6 weeks after discharge?
   Yes........................................................ 1
   No......................................................... 2 (STOP)
   Unknown............................................... 9 (STOP)

E5. Date of death:  [___] [___] [-] [___] [___] [-] [___] [___] [___] [___]
   (MM - DD - YYYY)

E6. Primary cause of death?
   PCP...................................................... 1
   Other respiratory cause of disease…….  2
   Cardiac or cardiopulmonary death…… 3
   Other.................................................... 7
   [Specify] ________________________
       ________________________
       ________________________
   Unknown.............................................. 9