專責委員會(2)文件編號:H10

SC2 Paper No.: H10

040001

Item 4 Details and timing of any report(s) or relevant record(s) available from Kwong Wah Hospital to HA subsequent to the admission of Professor LIU (hereinafter referred to as patient number 37) to the hospital, and the contents of HA's notices issued to other hospitals, if any, together with the timetable of issuance.

i) Reports from Kwong Wah Hospital to HA subsequent to the admission of Patient number 37 to the hospital

| | <u>Date</u> | Report | Attachment |
|---|---------------|--|------------|
| _ | 22.2.2003 | Report Form for severe community acquired pneumonia to Secretariat of Task Force on Infection Control (TFIC), Hospital Authority Head Office (HAHO) – Patient number 37. | Α |
| | 22.2.2003 | Clinical Record Form for severe community acquired pneumonia to Secretariat of Task Force on Infection Control (TFIC), HAHO. | В |
| | 3.3.2003 | Reports of two patients (number 37 & number 37B) admitted to KWH who were not classified at that time as severe community acquired pneumonia but were family contacts with Patient number 37 were reported to the on call micro biologist for information. | С |
| _ | 3.3.2003 | Report Form for severe community acquired pneumonia to Secretariat of Task Force on Infection Control (TFIC), HAHO – Patient number 37B | D |
| ţ | Contents of I | HA's notices issued to other hospitals and Department of He | alth (DH). |
| | 24.2.2003 | HAHO informed DH of Patient number 37 case at KWH | E |
| | 28.2.2003 | Following analysis and evaluation of reported Severe Community Acquired Pneumonia (SCAP) cases, revised FAQ issued to hospitals that reinforced droplet precautions and laboratory arrangements. | F |
| | 3.3.2003 | DH advised of two unwell family contacts of Patient number 37 | G |
| | 3.3.2003 | DH advised of SCAP case - Patient number 37B - family contact of Patient number 37 | Н |
| | 7.3.2003 | Revised FAQ with new Q8 & 9 issued to hospitals | I |

highlighting infectivity.

Appendix I

Report Form for severe community acquired pneumonia

_Hospital

To: Secretariat of TFIC, HAHO

22.2.2003 Date

(Fax No: 2881-5848)
(HA intranet mail: "Secretariat of Infection Control Task Force")

| Name | Sex/ Age | HK_ID_ | Hospital No./ | Ward/Bed | 1 | Admission Date | CXR | 1 | |
|-------------------|-------------|--------|---------------|----------|-----------|-------------------|-----|-----|------|
| Patient number 37 | M64 | | | E5/2 | 16-2-2013 | 22.2.2003 | | P - | Fair |
| | | | | | | | | | |
| | | | · | | | | | | |

Trust to 11110 on %

Confidential

The hospital ICTs/ ICOs are requested to fax the completed form asap

To: Secretariat TFIC

(Fax: 2881 5848)

Dr. Dominic Tsang, QEH

(Fax: 2958 6790)

Please also update the progress of the cases on a regular basis. If needed, the hospital ICT/ICO will be contacted for further updated information.

Enquiry on the CRF should be directed to Dr Dominic Tsang, at 2958 6849.

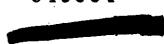
Clinical Record Form For Severe Atypical Community Acquired Pneumonia

This form is for capturing the clinical features, investigation results and treatment outcome of all patients suffering from severe atypical community acquired pneumonia admitted to HA hospitals.

The case definition for this study is community-acquired pneumonia (CAP) who require assisted ventilation or ICU/HDU care.

| Patient particulars: (or U | se Patient admission la | | KWH DOB: 09/02/1939 | |
|--|-------------------------|---------|---------------------|--|
| Name | HK_I | d | | Patient number 37A |
| Hospital Number | Sex/Age | | Date | |
| Old age home or other i | nstitution residence | S No | | working in travalande mosis, pls specify Clary San Hospital |
| Hospitalization 2 weeks | before admission | □ Rea | sons/diagr | nosis, pls specify Clay San Hospital |
| Antibiotics treatment be | fore admission | □ No | ⊌Yes (p | olease specify) |
| • Contact with animals, o | r birds | ĽNo | ☐ Yes (p | please specify) |
| Travel in past 2 weeks | | □No | □ Yes (p | olease specify) Thereof from Manla 1 olease specify) Clina. |
| Past health: (please spec | | | | |
| Clinical Features on Prese | ntation | | | |
| Duration of symptoms | 7 days prior to add | nission | | |
| OFever z chills. | © Conpp | | ☐ Sputur | n |
| ☑ Dyspnea | ☐ Haemoptysis | | | ic chest pain 4. |
| □ Diarrhoea | 2 Headache | | Myalg: | ia |
| Other symptoms, please spe | cify: | | | |

p.2



Clinical Record Form For Severe Atypical Community Acquired Pneumonia

| Physical Exam | nination Findings on admission | |
|--------------------------|---|--|
| BP 116 /85 | mmHg Pulse 117 /min | SaO2 15 % (Room air/O2 please specify %) |
| Respiratory Ra | ate <u> </u> | re 38.J °C |
| ☐ Cyanosis ☐ Wheezing | | Confusion/ delirium Crepitations |
| Others, please | specify: | |
| Investigation | result upon Admission | |
| ı | Consolidation (Lobar or patchy Unilateral Bilateral Progression after admission |) Interstitial shadow DEffusion |
| WBC count/ | | nphocyte count 10° /L |
| Serum creatinin | ne | 120 μmol/L |
| ABG: | pH_7.49 PCO, 3.5 kPa PO | . 6.7 kPa |
| ; | SaO, 90 % on nasal/NRM O | LPM 302 02 mash. |
| Liver function: | normal impaired, | please specify: 5607 8× 5617 62 |
| ASOT: 84 | | |
| Others findings, | please specify: | |
| | | |
| Antibiotics pre | | From (DDMMYY) To (DDMMYY) |
| | | 20/02/03 |
| 2 Anithann | Some D and | 30/00/03 |
| • | | 60/00/03 |
| 4. | | |
| 5. | | |
| J. | | |

p.3

Clinical Record Form For Severe Atypical Community Acquired Pneumonia

| Progress: | | |
|-------------------------------|--------------------------|---|
| ☐ Mechanical ventilation | From: (DDMMYY) | to (DDMMYY) |
| ☑ICU admission | From: (DDMMYY) | put on GIPPP to (DDMMYY) |
| | | |
| Complications: | | |
| ☐ Septic shock | | |
| ☐ Multi-organ failure | ☐ Delirium / septic er | |
| | ☐ Acute renal failure | |
| © complications of ventilator | U Others | □ Barotrauma |
| O complications of ventuator | y support | © ventilaor associated pneumonia |
| | | Ci Others |
| ☐ Empyema thoracis or absce | ess | |
| C Others | | |
| | | |
| Outcome: | | |
| ☐ Discharged ☐ Still | hospitalised | □ Died |
| | | |
| Please also attach laboratory | esults that are signific | ant for the analysis. Thank you for the assistance. |
| | | |
| Date: 38102103 | | Reported by: /cw 课程走 |
| 381 03/03 | | 100 8-02- |
| | | |
| The TEIC Secretariat w | vill inform DH o | n details of the case for their |
| | | |
| | | |
| NPA x vibal I F | -> All Negati | Tive reported by Mino Bab OMM |
| on oddos | | five reported by Mino Bab ONIN |
| | | |

| (jpu | | arce. | ., | |
|--|---|---|---|-------------------|
| Appendi | | (fl.A. ind'anct mall; "Secretariat of infection Control Task Force" | General Condition G&od/ Diagnosia/ Satisfy/ | |
| | vijo. | fetarlat of | General Godolf Diagnosial Satisfyl | 0 |
| umonia | TFIC, H. | nail: "Sec | CXX | A |
| aud paain | To: Secretariat of TPIC, HAHO (Fax No. 2881-5848) | indanct r | Admission Osto | 2.304 3.2. 2003 |
| nurity acc | To: Sec (II's |) | Onsel Adini- | 16-2-300 |
| Were com | | | Ward/Bed | c/2 |
| aport Form loc severe community acquired pheumonia | | | Hospital No. | |
| • 🕰 | Hospital 7.7 | | HK JO | |
| 9 | 3 | | Sexf | \$ |
| From Kings 1. 5.0 | Date 22.2. 200.7 | | Nome | Patient number 37 |
| • | | | | |

Seffen de 1

Lymphocyte count &

Name of Case M.O. and

phone number

General Condition

total WBC

remarks

- 6 Hu to

CHON WE TIME

13322311

Attachment D(p.1)

Attachment E(p.1)

Anna WONG, HOPSHR CIII

040010

From:

Secretariat of Infection Control Task Force Monday, February 24, 2003 *0:12 AM Dr L Y Tse, DH; LAU David: LIU Shao Haei; TAY Margaret; TSANG N C

Sent:

To:

Cc:

Clement CHE, HOPS&HR AM(PS)4

Subject:

Reported from HA Hospitals for suspected case of Community-acquired Pneumonia as at

24.2.02 am

Dear all,

FYI

Attrached scan file was reported from HA Hospitals as at 24 Feb 02 as at 10 am.



Appendix I

Report Form for severe community acquired pneumonia

_Hospital

To: Secretariat of TFIC, HAHO

22.2-2003 Date

(Fax No: 2881-5848) (HA intranet mail: "Secretariat of Infection Control Task Force")

| Name | Sex/ | מו_אא | Hospital No./ A ce N o. | Ward/Bed | | Admission Date | CXR | j | |
|-------------------|------|-------|---------------------------------------|----------|-----------|-------------------|-----|---|------|
| Patient number 37 | M/64 | | | E5/2 | 16-2-2003 | 22.2.2013 | | 8 | Fair |
| | | | | | | | | | |
| | | | | | | | | | |
| <u> </u> | | | | - | | | | : | |

Surveillance summary

| M:F | 23:16 | | |
|------------------------|-----------|--|--|
| Age>50 years | 28 | | |
| Recent travel to China | 14 | | |
| • died | 5 (35.7%) | | |
| Lymphocyte count <1.0 | 29 | | |
| Outcome | | | |
| • Died | 12 (30.7) | | |
| Discharged | 5 | | |

Analysis and Evaluation of Reported SCAP cases (P.1)

Agents identified

| Psittacosis | 2 |
|---------------|------------|
| Bacterial | 2 |
| H5N1 | 1 |
| Adenovirus | 2 |
| Parainfluenza | 2 |
| Rickettsia | 1 |
| Influenza A | 2 |
| Influenza B | 3 |
| unknown | 24 (61.5%) |

Lookback study

On pneumonia diagnosis code, they are

| Code | Ext | Description |
|-------|-----|--------------------|
| 480.0 | 0 | Adenoviral |
| 480.1 | 0 | RSV |
| 480.2 | 0 | Parainf |
| 480.9 | 0 | Viral |
| 483.0 | 0 | Mycoplasmal |
| 483.1 | 0 | Chlamydial |
| 483.8 | 0 | Other organisms |
| 484.1 | 0 | CMV |
| 486 | 0 | Pneumonia |
| 486 | 1 | Atypical pneumonia |
| 487.0 | 0 | Influenza |
| | | |

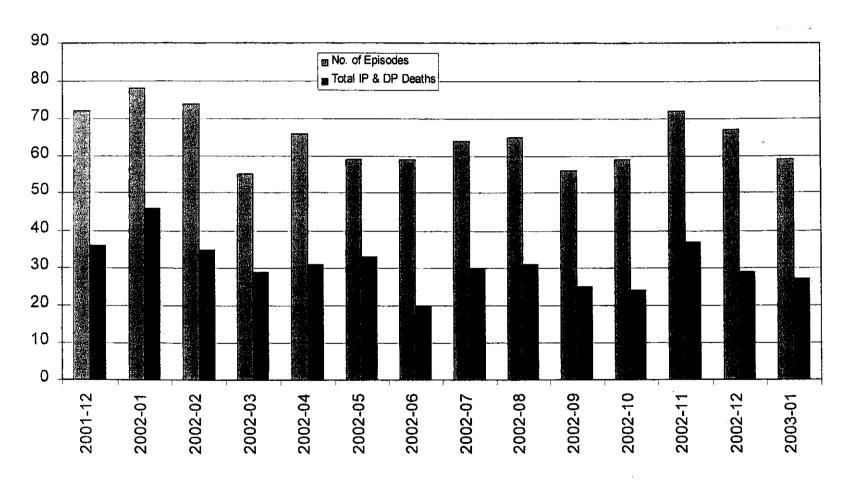
Analysis and Evaluation of Reported SCAP cases (P.3)

040015

| | 4.02.0 0.00 | | | | |
|--|-----------------|-----------------------------------|-----------------|---|--|
| | Y | 4.0 | $N_{\rm max}$ | and the hole parties of the fill of the file parties of the fill | Divisional solution |
| 7.75 \$1.75 ±1 | | 76 (1986) 176 1870 (1986) 1870 | | | |
| | | Total IP & DP | | Total TP & DP | |
| | No. of Episodes | Deaths | No. of Episodes | Deaths? | in the second second |
| 2001-12 | 72 | 36 | 1208 | 215 | |
| 2002-01 | 78 | 46 | 1349 | 238 | |
| 2002-02 | 74 | 35 | 1368 | 215 | 27) 27) 27) |
| 2002-03 | 55 | 29 | 1223 | 168 | |
| 2002-04 | 66 | 31 | 1141 | 165 | |
| 2002-05 | 59 | 33 | 1142 | 183 | |
| 2002-06 | 59 | 20 | 1045 | 165 | |
| 2002-07 | 64 | 30 | 1060 | 148 | |
| 2002-08 | 65 | 31 | 870 | 144 | |
| 2002-09 | 56 | 25 | 840 | 148 | |
| 2002-10 | 59 | 24 | 912 | 145 | /g 1500 |
| 2002-11 | 72 | 37 | 903 | 152 | |
| 2002-12 | 67 | 29 | 853 | 123 | |
| 2003-01 | 59 | 27 | 1048 | 148 | Oktober 1988 stem og 1884 stem o |

Remarks : IP : In-patient DP : Day-patient

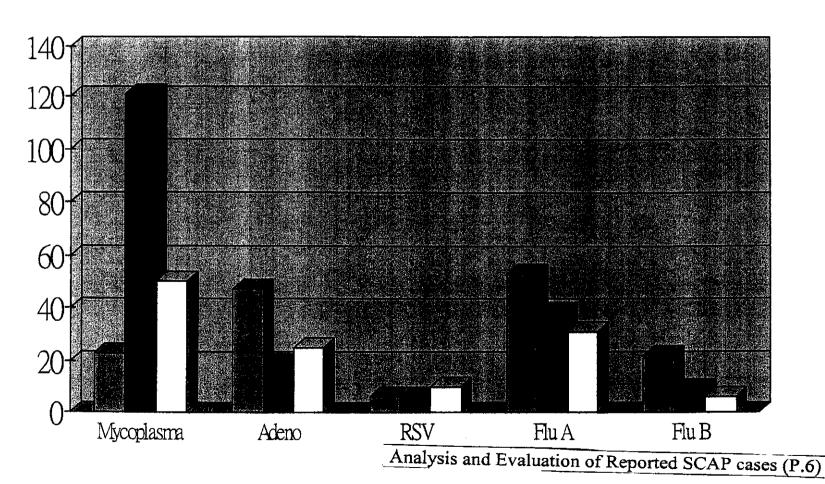
ICU cases of Atypical CAP



Analysis and Evaluation of Reported SCAP cases (P.5)

Breakdown of positive respiratory pathogens in QEH





FAQ in the Management of Severe Community Acquired Pneumonia Revised on February 28, 2003

- 1. What is the case definition of severe Community Acquired Pneumonia (CAP)?
 - According to the ad hoc Working Group on the subject, severe CAP refers to cases
 of CAP requiring assisted ventilation (limited to intubated cases only) or CAP cases
 under ICU/HDU care.
- 2. What is the background incidence of atypical Community Acquired Pneumonia (CAP) admitted to ICU?
 - In last winter, from December 2001 to February 2002, there were on an average 74 CAP cases admitted to ICU, mainly atypical pneumonia.
- 3. What to do when I have a patient suffering from severe Community Acquired Pneumonia (CAP)? (NEW)
 - Such cases should be reported to the Secretariat of TFIC, HAHO Fax No. 2881-5848 (HA intranet mail: "Secretariat of Infection Control Task Force") using the revised report form (Appendix I).
 - The Secretariat of TFIC would update the hospital's ICTs and Duty Microbiologist of such cases.
 - The hospital ICTs are no longer required to complete the CRF.
 - Dr. Dominic Tsang, subject officer, would seek the assistance of the hospital's ICT or case Medical Officer in updating of case information when required.
 - Send additional tests as outlined below.
- 4. What is the arrangement for laboratory testing? (NEW)
 - Specimens should be collected (NPA, serum samples) and sent to GVU, DH by existing arrangement. GVU would test for all potential agents of atypical pneumonia.
 - Additional specimens (NPA, clotted blood and EDTA blood samples) should be collected and sent to QMH Microbiology laboratory (attn: Dr. Malik Peiris) through the hospital's Pathology department. Special test and detailed analysis on H5 avian influenza would be performed.
 - Similarly, specimens of NPA and clotted blood from patients in NTE cluster hospitals, YCH and CMC should be sent to Virology laboratory, Prince of Wales Hospital for special testing. The request for 'atypical pneumonia surveillance' should be clearly stated on the request form.
 - Such arrangement of special tests would be reviewed in two weeks to assess the need for continuation.

Attachment F(p.8)

040019

 Hospital ICT would follow up on the cases reported and make sure the tests are sent promptly.

5. Can I send for special testing on other CAP cases?

- Others cases of CAP, not fulfilling the case definition of severe CAP, should be investigated according to normal routine practice i.e. specimens should be sent to GVU-DH, Virology Laboratory in Prince of Wales Hospital, Microbiology Laboratory in Queen Mary Hospital as appropriate, for testing on agents of atypical pneumonia.
- Also, for cases of CAP not fulfilling the case definition of severe CAP, if the patient is
 having lymphopenia, returning from China or recent poultry contact, such specimens
 should also be sent to the appropriate laboratory for special testing.

6. What follow up actions would be done?

- HAHO would inform the reported cases to Department of Health for epidemiological analysis.
- The Working Group would compile a database on all such cases, and analysis would be conducted on possible epidemiological linkage.
- Test results would be monitored and hospital will be notified once available.

7. What are the Infection Control Measures?

The recommended method of isolation for influenza is droplet precautions in additional to Universal Precautions. This is because the disease is not airborne, but by large particle droplet (larger than $5 \mu m$) which will not be transmitted beyond 3 feet from the source.

Droplet Precautions includes:

28/2/03

- Place patient in a room with other patient(s) having influenza (cohorting). Special air handling and ventilation are not necessary. When cohorting is not possible, maintain separation of at least 3 feet from other patients.
- Staff should have barrier apparels (gloves and gowns) when coming into contact with the patient's blood, body fluids, secretions, excretions, mucous membranes and contaminated items.
- Wear a mask when working within 3 feet of the patient.
- <u>Wash hands</u> after removal of gloves and before nursing another patient even when contact is only with non-contaminated items.
- Proper disinfection of the environment and equipment contaminated with blood, body fluids, secretions and excretions is required.

8. What is the Use of Antivirals?

Amantadine can reduce the severity and duration of signs and symptoms of only influenza A illness when given in the early stage of infection. Amantadine is associated with neurological and gastrointestinal side effects. Cautions must be exercised for people with renal insufficiency. Resistance emerges within 2-5 days in around 30% of cases and such resistant viruses are readily transmissible.

Attachment F(p.9)

The two new anti-influenza drugs, Zanamivir (Relenza) and Oseltamivir (Tamiflu), are neuraminidase inhibitors and are active against both influenza A and B.

- Zanamivir is approved for use in patient aged 7 years or older. Oseltamivir is approved for treatment of patient aged 1 year or older.
- Oseltamivir is also approved for influenza chemoprophylaxis among person aged 13 year or older.
- When treatment is commenced within 36 to 48 hours of the onset of influenza, both drugs can reduce clinical symptoms of influenza by approximately 1 day.
- Zanamivir may rarely cause bronchospasm in patients with asthma and bronchodilators must be readily available when it is used on such patients. In patients on inhaled bronchodilators, use it before the dose of zanamivir. Oseltamivir has gastrointestinal side effects including nausea (10% in adults, 14.3% in children) and vomiting (9% in adults) which might be less severe when the drug is taken with food.
- Development of viral resistance to zanamivir and oseltamivir during treatment has been reported.
- The use of these new agents as chemoprophylxis among contacts should base on clinical symptoms, the degree of contact with index cases, and subject to evaluation by the attending physician.

9. Where can I get further information and advice?

- Secretariat, TFIC
- Hospital Infection Control Team
- Seminars on the subject are being organised and would be announced soon.
- Guideline on "Use of Amantadine in the Management of H5N1 Infections" issued by Department of Health, 20 February 2003 (Appendix II).

28 February 2003

Hospital Authority

Report Form for severe community acquired pneumonia

| From:Hospital | To: Secretariat of TFIC, HAHO |
|---------------|---|
| | (Fax No: 2881-5848) |
| Force") | (HA intranet mail: "Secretariat of Infection Control Task |
| Data : | |

| Name [Patient label preferred] | Sex/Age | Ward/Bed | Date of Admission | Onset Date | Travel (place and duration) | Contact with poultry or birds | Respiratory symotoms among family members | CXR on admission | Lymphocyte count & total WBC | remarks | Name of Case M.O. and phone number | General Condition |
|-----------------------------------|---------|----------|-------------------|------------|--------------------------------|-------------------------------|--|------------------|------------------------------|---------|---------------------------------------|-------------------|
| | | | | | | | | | | | | |

040021 Attachment F(p.10)

Attachment F(p.11)

Appendix II

28/2/03

Use of Amantadine in the Management of H5N1 Infections

From the drug sensitivity study at Centres for Disease Control and Prevention (CDC) on the isolates from two H5N1 cases in 1997, it has been shown that the H5N1 virus is sensitive to amantadine. This drug is an effective agent for the treatment and prophylaxis of influenza A (but not B). However, it is prudent to note that the influenza viruses can rapidly develop resistance to this drug. Hence, doctors are advised to use the drug appropriately for treatment or prophylaxis of influenza A. The following guidelines which have incorporated the advice from the CDC experts are recommended for doctors' reference.

Confirmed case of H5N1 infection

Amantadine 100mg twice a day for 5 days can be used to treat cases of H5N1 infection. If started within 48 hours of the start of illness, amantadine can reduce the severity and shorten the duration of illness. Doses should be reduced for children and elderly, and those with underlying renal diseases. For children aged 1 to 9, the dosage is 5mg/kg/day in 2 divided doses up to 150 mg. For children aged greater than 9, adult dosage can be used but if the body weight of the child is less than 40kg, use the regime of 5mg/kg/day in 2 divided doses up to 150 mg.

Symptomatic Contacts of H5N1 cases

Close contacts, i.e. home contacts and medical staff providing direct care to patients with H5N1 infection, should be put on medical surveillance. If they develop symptoms compatible with influenza (fever of 38°C or higher, together with cough or sore throat), they should have a throat swab or nasopharyngeal aspirate taken for viral cultures. Treatment with amantadine (100mg twice daily for 5 days) can be started pending viral culture results.

Side effects

Amantadine can cause neurological and gastrointestinal side effects. In one study of healthy adults, approximately 13% of those treated with amantadine developed side effects. Neurological side effects include nervousness, anxiety, difficulty in concentrating and dizziness. More serious neurological side effects like marked behavioural changes, delirium, hallucinations, agitation and seizures have been observed. Gastrointestinal side effects include nausea, vomiting abdominal pain and constipation. These side effects will stop after the drug has been withdrawn. Cautions must be exercised for people with renal insufficiency and in the elderly age group. The drugs are contraindicated for persons with seizure disorders.

Department of Health, HKSAR 20 February 2003

Shao Haei LIU Dr, HOPSHR SEM(PS)1

From:

Shao Haei LIU Dr, HOPS&HR SEM(PS)1

Sent:

3日March2003年Monday 13:28

To:

'ly_tse@dh.gov.hk'

Cc:

WM KO Dr, HOPS&PA D(PS&PA); N C TSANG, QEH CON(Path); W H SETO Dr,

HKWC CD(Q&RM) / HKWC CC(MIC) / QMHMIC COS

Subject;

FW: Family contacts of index patients (Liu)

Sensitivity:

Confidential

This the KWH case for your infomation.

listed in the table should be numbered as 37A. Family contact

Patient number 37A

SH LIU

-----Original Message

From:

N C TSANG, QEH CON(Path) Monday, March 03, 2003 12:14 PM

Sent: To:

Malik Peiris; Shao Haei LIU; Dr. Wilina Lim

Cc:

Clement CHE; W M KO

Subject:

FW: Family contacts of index patients (Liu)

Sensitivity:

Confidential

Dear all,

Patient number 37B

I have discussed with Dr Wilson Yee, KWH, case i/c of patient on the possibility of getting lower respiratory specimen for aetiological diagnosis. After discussing with Dr Chan Yuk Choi, Dr Yee is seriously considering the option of an open lung biopsy to obtain tissue for our investigation. Pending patient's consent, such procedure would proceed and ling tissue would be delivered to your laboratories for processing.

I shall contact Malik and Wilina once the speciemens are available.

Regards

Dominic

--Original Message

From:

N C TSANG, QEH CON(Path)

Sent:

Monday, March 03, 2003 11:05 AM

To: Cc:

Shao Haei LIU Dr, HOPS&HR SEM(PS)1; Clement CHE, HOPS&HR AM(PS)4 'Malik Peiris'

Subject:

Family contacts of index patients (Liu)

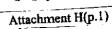
I attach information on the two unwell family contacts of case 37, for your information and forwarding to DH for epidemiological analysis.



Contacts37.doc

| | 37B | 37A | Hospital |
|---|--|---|-------------------------|
| | Patient number 37B | Patient number 37A — | Name |
| | | | HK_ID |
| | M 53 | F 56 | Sex/age |
| | Husband of case 37A, Contact case 37 on 21 Feb | Sister of case 37. Contact on 21 Feb | Details |
| | 28 Feb | 1 March | DOA |
| | Onset: 22 Feb | Onset 27 Feb | СС |
| | LLZ hazziness | Bilateral LL hazziness | CXR on admission |
| | | | BP on admission |
| | | | Temp. on admission |
| | · | | Pulse on admission |
| | | | Resp. rate on admission |
| İ | 6-1 83, | \$2, 4-3 | Ward/bed |
| | Nil | Nil | Travel History |
| | 0.7 (WBC =7.3) | WBC=3.9 | Lymphocyte |
| | | | Anti-viral Treatment |
| | Open Lung Bx on 4 March | | +ve Lab. results |
| | 4 March intubated in ICU | stable | Condition |

C:\DOCUME~1\liush\LOCALS~1\Temp\Caselist4Mar1.doc/





nna WONG, HOPSHR CIII

:om:

Secretariat of Infection Control Task Force

ent:

Dr L Y Tse, DH; LAU David; LIU Shao Haei; TAY Margaret; TSANG N C

o:

c. iubject: Clement CHE, HOPS&HR AM(PS)A
Reported from HA Hospitals for suspected case of Community-acquired Pneumonia as at

3.3.03 at 3:40 pm

Dear all,

Atttached scan file were reported from HA Hospitals as at 3 Mar 03 at 3:40 pm.



Report Form for CAP 030303.pdf...

Rgds

Montan

Attachment H(p.2)

| | Name [Patient label preferred] |
|--|---|
| | HK-ID |
| | Sex/Age |
| | Ward/Bed |
| 28/2/203 | Date of Admission |
| 24/2/2003 | Onset Date |
| 7~1 | Travel (place and duration) |
| | Contact with poultry or birds |
| Yes pd's high | Respiratory symotoms among family members |
| LLE heggins | CXR on admission |
| - WBZ 7.1 - Klyp Ort. 2/2 | Lymphocyte count & total WBC |
| Aruth family much pulsich phis supply, froth has for case on in on con English the case of the of CHON let Truly | 2 |
| CHON 10 TIM, 23122311 | Name of Case M.O. and phone number |
| fair sequire Bilder | General Condition |

Report Form for severe community acquired pneumonia _Hospital To: Secretariat of TFIC, HAHO
(Fax No: 2881-5848)
(HA intranet mail: "Secretariat of Infection Control Task Force")

Appendix I

FAQ in the Management of Severe Community Acquired Pneumonia

Revised on March 7, 2003

1. What is the case definition of severe Community Acquired Pneumonia (CAP)?

 According to the ad hoc Working Group on the subject, severe CAP refers to cases of CAP requiring assisted ventilation (limited to intubated cases only) or CAP cases under ICU/HDU care.

2. What is the background incidence of atypical Community Acquired Pneumonia (CAP) admitted to ICU?

 In last winter, from December 2001 to February 2002, there were on an average 74 CAP cases admitted to ICU, mainly atypical pneumonia.

3. What to do when I have a patient suffering from severe Community Acquired Pneumonia (CAP)?

- Such cases should be reported to the Secretariat of TFIC, HAHO Fax No: 2881-5848 (HA
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 (Appendix I).
- The Secretariat of TFIC would update the hospital's ICTs and Duty Microbiologist of such cases.
- The hospital ICTs are no longer required to complete the CRF.
- Dr. Dominic Tsang, subject officer, would seek the assistance of the hospital's ICT or case Medical Officer in updating of case information when required.
- · Send additional tests as outlined below.

4. What is the arrangement for laboratory testing?

- Specimens should be collected (NPA, serum samples) and sent to GVU, DH by existing arrangement. GVU would test for all potential agents of atypical pneumonia.
- Additional specimens (NPA, clotted blood and EDTA blood samples) should be collected
 and sent to QMH Microbiology laboratory (attn: Dr. Malik Peiris) through the hospital's
 Pathology department. Special test and detailed analysis on H5 avian influenza would be
 performed.
- Similarly, specimens of NPA and clotted blood from patients in NTE cluster hospitals, YCH and CMC should be sent to Virology laboratory, Prince of Wales Hospital for special testing. The request for 'atypical pneumonia surveillance' should be clearly stated on the request form.
- Such arrangement of special tests would be reviewed in two weeks to assess the need for continuation.
- Hospital ICT would follow up on the cases reported and make sure the tests are sent promptly.

5. Can I send for special testing on other CAP cases?

Others cases of CAP, not fulfilling the case definition of severe CAP, should be investigated according to normal routine practice i.e. specimens should be sent to GVU-DH, Virology Laboratory in Prince of Wates Hospital, Microbiology Laboratory in Queen Mary Hospital as appropriate, for testing on agents of atypical pneumonia.

Attachment I(p.2)

Also, for cases of CAP not fulfilling the case definition of severe CAP, if the patient is
having lymphopenia, returning from China or recent poultry contact, such specimens
should also be sent to the appropriate laboratory for special testing.

6. What follow up actions would be done?

- HAHO would inform the reported cases to Department of Health for epidemiological analysis.
- The Working Group would compile a database on all such cases, and analysis would be conducted on possible epidemiological linkage.
- Test results would be monitored and hospital will be notified once available.

7. What are the Infection Control Measures?

The recommended method of isolation for influenza and most other respiratory infections (except pulmonary tuberculosis) is droplet precautions in additional to Universal Precautions. This is because the disease is not airborne, but by large particle droplet (larger than 5 μ m) which will not be transmitted beyond 3 feet from the source.

Droplet Precautions includes:

- Place patient in a room with other patient(s) having influenza (cohorting). Special air handling and ventilation are not necessary. When cohorting is not possible, maintain separation of at least 3 feet from other patients.
- Staff should have barrier apparels (gloves and gowns) when coming into contact with the
 patient's blood, body fluids, secretions, excretions, mucous membranes and
 contaminated items.
- · Wear a mask when working within 3 feet of the patient.
- Wash hands after removal of gloves and before nursing another patient even when contact is only with non-contaminated items.
- Proper disinfection of the environment and equipment contaminated with blood, body fluids, secretions and excretions is required.

8. How infectious are these severe cases of CAP to healthcare workers and what have been done by HA? (NEW)

- While some of these severe CAP cases were diagnosed to be Psittacosis (2),
 Pneumococcal (1), Influenza A H5N1 (1), Influenza A (2), Influenza B (3), Parainfluenza-2 (1), Parainfluenza-3 (1), and Klebsiella pneumoniae (1), the aetiology of most cases of severe CAP remains unknown.
- It is therefore imperative for frontline staff to adopt the recommended infection control
 precautions in attending to patients with respiratory symptoms such as fever, headache,
 myalgia, running nose, pleuritic chest pain and cough.
- To assess the potential of person-to-person spread of these severe CAP infections in the healthcare setting, information is being collected on healthcare staff in contact with these severe CAP cases with regard to any subsequent illness. Symptomatic contacts would be managed clinically and investigated accordingly. Staff contacts of any further severe CAP cases would also be monitored closely for respiratory symptoms.
- Such information is expected to be available early next week and would be released once consolidated. However, the early information gathered from hospitals is not alarming.

Attachment I(p.3)

9. What are the precautions when attending to patients in the AED? (NEW)

- Universal Precautions should always be adopted in attending to any patient in AED. This
 is aimed to prevent the acquisition of infections transmitted by blood and body fluids.
- When attending to patients with respiratory symptoms (such as fever, sore throat, headache, running nose, cough, myalgia, skin rash, pleuritic chest pain), put on a mask and wash hands after patient contact.

10. What is the Use of Antivirals?

Amantadine can reduce the severity and duration of signs and symptoms of only influenza A illness when given in the early stage of infection. Amantadine is associated with neurological and gastrointestinal side effects. Cautions must be exercised for people with renal insufficiency. Resistance emerges within 2-5 days in around 30% of cases and such resistant viruses are readily transmissible.

The two new anti-influenza drugs, Zanamivir (Relenza) and Oseltamivir (Tamifiu), are neuraminidase inhibitors and are active against both influenza A and B.

- Zanamivir is approved for use in patient aged 7 years or older. Oseltamivir is approved for treatment of patient aged 1 year or older.
- Oseltamivir is also approved for influenza chemoprophylaxis among person aged 13 year or older.
- When treatment is commenced within 36 to 48 hours of the onset of influenza, both drugs can reduce clinical symptoms of influenza by approximately 1 day.
- Zanamivir may rarely cause bronchospasm in patients with asthma and bronchodilators must be readily available when it is used on such patients. In patients on inhaled bronchodilators, use it before the dose of zanamivir. Oseltamivir has gastrointestinal side effects including nausea (10% in adults, 14.3% in children) and vomiting (9% in adults) which might be less severe when the drug is taken with food.
- Development of viral resistance to zanamivir and oseltamivir during treatment has been reported.
- The use of these new agents as chemoprophylxis among contacts should base on clinical symptoms, the degree of contact with index cases, and subject to evaluation by the attending physician.

11. Where can I get further information and advice?

- Secretariat, TFIC
- Hospital Infection Control Team
- Guideline on "Use of Amantadine in the Management of H5N1 Infections" issued by Department of Health, 20 February 2003 (Appendix II).

7 March 2003 Hospital Authority

Report Form for severe community acquired pneumonia

| From | : | Hospital | To: | Secretariat of TFIC, HAHO |
|------|---|----------|-----|--|
| | | | | (Fax No: 2881-5848) |
| | | | | (HA intranet mail: "Secretariat of Central Committee on Infection Control" |
| Date | : | | | |

| Name [Patient label preferred] | НК-ІD | Ward/Bed | Date of Admission | Onset Date | Travel (place and duration) | Contact with poultry or birds | Respiratory symotoms among family members | CXR on admission | Lymphocyte count & total WBC | remarks | Name of Case M.O. and phone number | General Condition |
|-----------------------------------|-------|----------|-------------------|------------|--------------------------------|-------------------------------|--|------------------|------------------------------|---------|------------------------------------|-------------------|
| | | | | | | | | | | | | |

Attachment I(p.4

7/3/03

Use of Amantadine in the Management of H5N1 Infections

From the drug sensitivity study at Centres for Disease Control and Prevention (CDC) on the isolates from two H5N1 cases in 1997, it has been shown that the H5N1 virus is sensitive to amantadine. This drug is an effective agent for the treatment and prophylaxis of influenza A (but not B). However, it is prudent to note that the influenza viruses can rapidly develop resistance to this drug. Hence, doctors are advised to use the drug appropriately for treatment or prophylaxis of influenza A. The following guidelines which have incorporated the advice from the CDC experts are recommended for doctors' reference.

Confirmed case of H5N1 infection

Amantadine 100mg twice a day for 5 days can be used to treat cases of H5N1 infection. If started within 48 hours of the start of illness, amantadine can reduce the severity and shorten the duration of illness. Doses should be reduced for children and elderly, and those with underlying renal diseases. For children aged 1 to 9, the dosage is 5mg/kg/day in 2 divided doses up to 150 mg. For children aged greater than 9, adult dosage can be used but if the body weight of the child is less than 40kg, use the regime of 5mg/kg/day in 2 divided doses up to 150 mg.

Symptomatic Contacts of H5N1 cases

Close contacts, i.e. home contacts and medical staff providing direct care to patients with H5N1 infection, should be put on medical surveillance. If they develop symptoms compatible with influenza (fever of 38°C or higher, together with cough or sore throat), they should have a throat swab or nasopharyngeal aspirate taken for viral cultures. Treatment with amantadine (100mg twice daily for 5 days) can be started pending viral culture results.

Side effects

Amantadine can cause neurological and gastrointestinal side effects. In one study of healthy adults, approximately 13% of those treated with amantadine developed side effects. Neurological side effects include nervousness, anxiety, difficulty in concentrating and dizziness. More serious neurological side effects like marked behavioural changes, delirium, hallucinations, agitation and seizures have been observed. Gastrointestinal side effects include nausea, vomiting abdominal pain and constipation. These side effects will stop after the drug has been withdrawn. Cautions must be exercised for people with renal insufficiency and in the elderly age group. The drugs are contraindicated for persons with seizure disorders.

Department of Health, HKSAR 20 February 2003