ER-INFECTION COMBINE MEETING

R1吳冠蓉/V.S洪世文 103.05.17

Case 1-Basic data

Gender: 50-yo femaleDate: DAY1 19:44 pm

■ C/C: 左腰痛

■ TPR: 38.8/124/16 BP:102/70

SpO2: 99% GCS: E4V5M6

■ Triage: 2

Present illness

- General weakness for 10+ days
- Intermittent fever for 1 week
- Cough, mild RN, no sputum, SOB(+)
- Dysuria(+), Bilateral flank pain,
- no vomiting; loose stool
- Poor intake
- 今天剛從印尼回來,一週前在印尼有general weakness, suspected virus infection

History

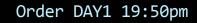
- Medical hx: Denied HTN/CAD/DM
- Allergy: NKA
- TOCC Hx: 半個月至今日前在印尼, 成衣業, Contact: nil; Cluster: nil

Physical Examination

- Consciousness: Alert
- HEENT: neck supple, throat no injected, tonsil no swelling
- Chest: clear breathing sound,
- Abdomen: Soft, epigastric tender, no guarding, left flank knocking pain
- Extremities: freely, no rash

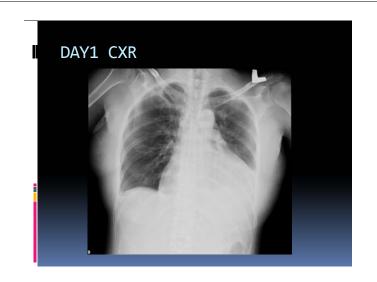
Impression

- Fever, cause?
 - r/o left APN
 - r/o Pneumonia
 - r/o atypical infection

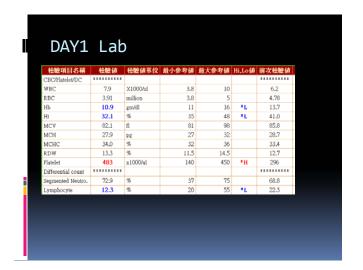


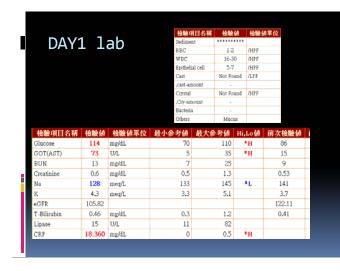
- CBC/DC/PLTKUB, CXR
- BUN, Cr, GOT, Acetamol 1g
 Na, K, T-Bil, IV ST
 lipase, CRP
- VBG4
- B/Cx2
- N/S 500ml
- N/S run 8oml/hr

pН	7.452	
pCO2	37.2	
pO2	13	
BE	2	
HCO ₃	25.9	
TCO ₂	27	
SO ₂	17%	
Lactate	10.5	



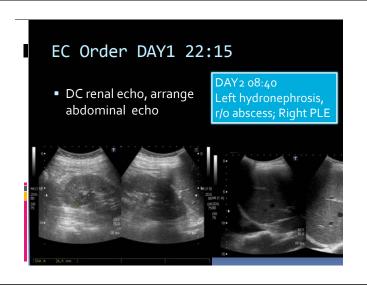




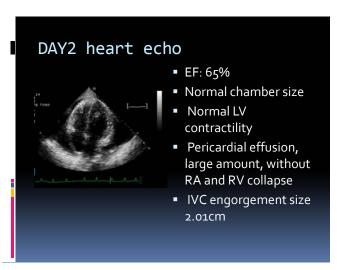


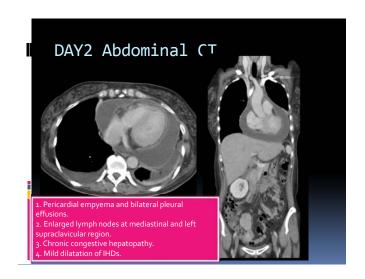
Order DAY1 21:20pm

- Recheck HR/BP (38/101/16, SpO2:96%)
- N/S 500ml ST
- Cefmetazole 1g IV ST and Q8H
- Renal echo
- 排nephro/infection床
- 轉EC51









■ 11:00 Consult CV/Infection CV duty: 看heart echo的情況,可能抽水風險較高,目前無tamponade sign,可以先OBS Infection impression: infection, autoimmune, malignancy all possible Suggest Ceftriaxone 2g Q12H, check ANA/RA/C3/C4, tumor marker, chest echo for PLE tapping and analysis ■ Arrange chest echo tomorrow ■ ANA/C3/C4/RA, CEA, CA199 ■ 16:28 Admission to Infection ward

Admission DAY2

■ Tentative diagnosis:

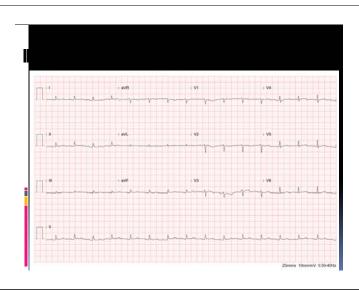
■ 1. Acute pyelonephritis of left kidney with hydronephrosis r/o abscess

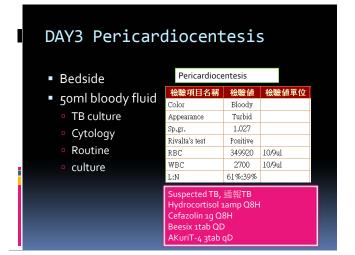
■ 2. Pericardial effusion r/o empyema

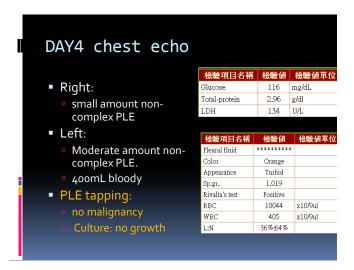
■ 3. bilateral pleural effusions

Dr. 提:
Infection: TB?
Autoimmune: SLE?
Cancer: lymphoma→check LDH
lung CA→ CT no mass
Breast CA?

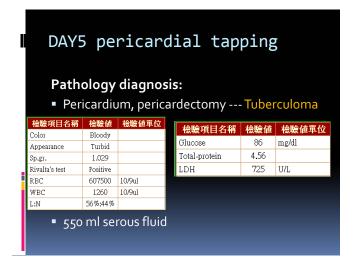


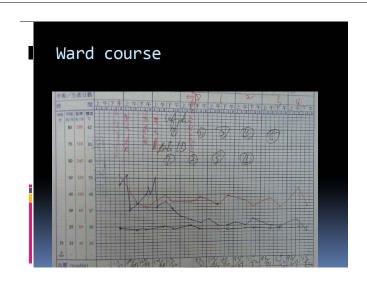




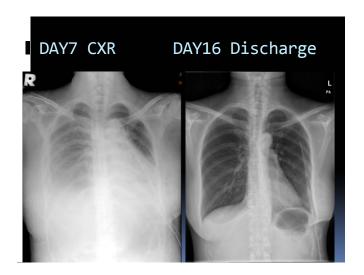


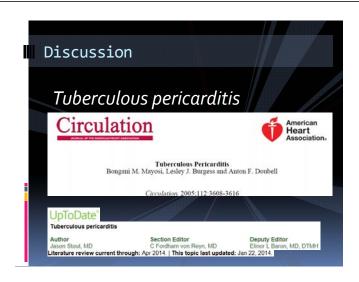












Introduction

- Tuberculous pericarditis occurs in approximately 1 to 2 percent of patients with pulmonary tuberculosis (TB).
- Four pathological stages
 - fibrinous exudation,
 - lymphocytic effusion,
 - absorption of effusion with granulomatous caseation,
 - constrictive scarring.

Symptoms

- Nonspecific
- Manifestations: fever, weight loss, night sweats, cardiopulmonary complaints
- Symptoms: cough, dyspnea, chest pain, pleurisy, orthopnea, night sweats, and weight loss.
- HIV with TB pericarditis

TABLE 3. Proposed Diagnostic Criteria for Tuberculous
Pericarditis for Countries and Communities in Which
Tuberculosis Is Endemic

Category and Criteria

Definite tuberculous pericarditis
Tubercle bacilli are found in stained smear or culture of pericardial fluid;
and/or

Tubercle bacilii or caseating granulomata are found on histological examination of pericardium

Probable tuberculous pericarditis

Evidence of pericarditis in a patient with tuberculosis demonstrated

elsewhere in the body; and/or Lymphocytic pericardial exudate with elevated ADA activity; and/or Good response to antituberculosis chemotherapy

TABLE 4. Integrated Etiologic Approach to the Patient With Suspected Tuberculous Pericardial Effusion

Pericardiocentesis

Therapeutic pericardiocentesis is indicated in the presence of cardiac tamponade.

Diagnostic pericardiocentesis should be considered in all patients with suspected tuberculous pericarditis, and the following tests should be performed:

Direct inoculation of the pericardial fluid into double-strength liquid Kirchner culture medium at the bedside and culture for M tuberculosis.

Biochemical tests to distinguish between an exudate and a transudate (fluid and serum protein; fluid and serum LDH).

Indirect tests for tuberculous infection: ADA, IFN-γ, or lysozyme

assay.

TABLE 4. Integrated Etiologic Approach to the Patient With Suspected Tuberculous Pericardial Effusion Initial evaluation

Chest radiograph may reveal changes suggestive of pulmonary tuberculosis in 30% of cases.

Echocardiogram: the presence of a large pericardial effusion with frond-like projections, and thick "porridge-like" exudate is suggestive of an exudate but not specific for a tuberculous etiology.

CT scan and/or MRI of the chest are alternative imaging modalities where available: for evidence of pericardial effusion and thickening (>5 mm) and typical mediastinal and tracheobronchial lymphadenopathy (>10 mm, hypodense centers, matting), with sparing of hilar lymph nodes.

Culture of sputum, gastric aspirate, and/or urine should be considered in all patients.

Right scalene lymph node biopsy if pericardial fluid is not accessible and lymphadenopathy is present.

Tuberculin skin test is not helpful regardless of the background prevalence of tuberculosis.5·5°

TABLE 4. Integrated Etiologic Approach to the Patient With Suspected Tuberculous Pericardial Effusion

Pericardial biops

 $\label{thm:continuous} \begin{tabular}{ll} ``The rapeutic'' biopsy: as part of surgical drainage in patients with severe tamponade relapsing after pericardiocentesis. \end{tabular}$

Diagnostic biopsy: in areas in which TB is endemic, a diagnostic biopsy is not required before commencing empirical antituberculosis treatment. In areas in which TB is not endemic, a diagnostic biopsy is recommended in patients with >3 weeks of illness and without etiologic diagnosis having been reached by other tests.3

Empirical antituberculosis chemotherapy

Tuberculosis endemic in the population: trial of empirical antituberculous chemotherapy is recommended for exudative pericardial effusion, after other causes such as malignancy, uremia, and trauma have been excluded.

Tuberculosis not endemic in the population: when systematic investigation fails to yield a diagnosis of tuberculous pericarditis, there is no justification for starting antituberculosis treatment empirically. 58

Treatment

- Related to HIV(+), HIV(-), drug-resistant
- Corticosteroids:
 - constrictive tuberculous pericarditis(Grade 1B)
 - Nonconstrictive tuberculous pericarditis(Grade 2C)



