

## **Present illness**

- **On ICD : pus 200 ml. + air**
- **Imp. Empyema thoracis with pneumothorax Lt.**

**จึงrefer รพ. จังหวัด**

## Present illness

รพ. จังหวัด

**CBC :** Hb 9.5 g/dl, Hct 27 %

WBC 10,400 cells/mm<sup>3</sup>(N 83%,L 13%,M 4%)

Platelet 413,000 cells/mm<sup>3</sup>

**UA :** spec 1.015 prot 2+,RBC 10-20/HPF,

WBC 2-3/HPF

BUN 35 Cr 1.8

ESR 81 mm/Hr

## Present illness

- **Ceftriaxone x 3 days** ไม่ดีขึ้น ยังมีไข้ตลอด
- เปลี่ยนยาเป็น **Amoxicillin/clavulanate + Metronidazole**



?

# Causative bacteriology of empyema

## Aerobic bacteria

- *Staphylococcus aureus*
- *Streptococcus pneumoniae*
- *Streptococcus pyogenes*
- *Haemophilus influenzae type b*
- *Escherichia coli*
- *Klebsiella* species
- *Pseudomonas aeruginosa*

# Causative bacteriology of empyema

## Anaerobic bacteria

- Microaerophilic streptococci
- *Fusobacterium nucleatum*
- *Bacteroides melaninogenicus*
- *Bacteroides fragilis*
- *Peptococcus*
- *Peptostreptococcus*
- Catalase-negative, non-spore-forming, gram-positive bacilli