

Case-1 (Case Summery)

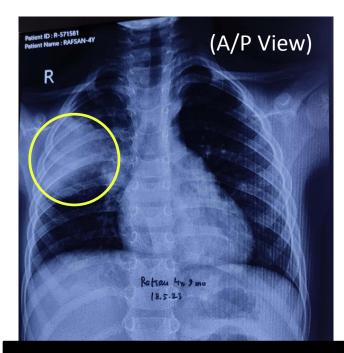
Rafsan, 4.5 years old boy,

- High grade intermittent fever 4 days
- Non productive cough
- Respiratory distress

On Examination-

- Febrile
- Dyspnoeic
- Tachypnoeic
- Lungs- course crepitation & few rhonchi B/L

Case-1: Chest radiology



Dense homogenous opacity in right mid zone and part of upper zone

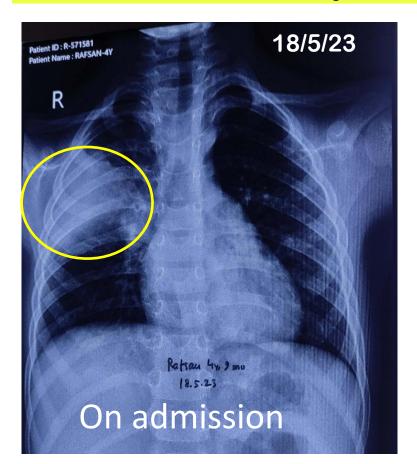


Homogenous opacity in apical and posterior segment of upper lobe & part of apical segment of lower lobe

Case-1: Investigations-Blood

| Haemoglobin | 12g/dl | CRP-34 mg/dl |
|----------------|------------------------------|----------------------------------|
| WBC (TC) | 9000/cu mm | Blood C/S- |
| DC (N) | 83% | no growth |
| (L) | 12% | <u>Treatment received-</u> |
| (E) | 2% | Inj. Ceftriaxone & |
| Platelet count | 2,20,000/cumm | Inj. Flucloxacillin |
| ESR | 30mm in 1 st hour | -7 days |

Case-1: CXR: Complete resolution





Case-1: Typical pneumonia



Case-1: A case of Typical Pneumonia

Typical pneumonia refers to pneumonia caused by:

- Streptococcus pneumoniae,
- Haemophilus influenzae,
- Staphylococcus aureus,
- Group A streptococci,
- Moraxella catarrhalis,
- Anaerobes and aerobic gram-negative bacteria

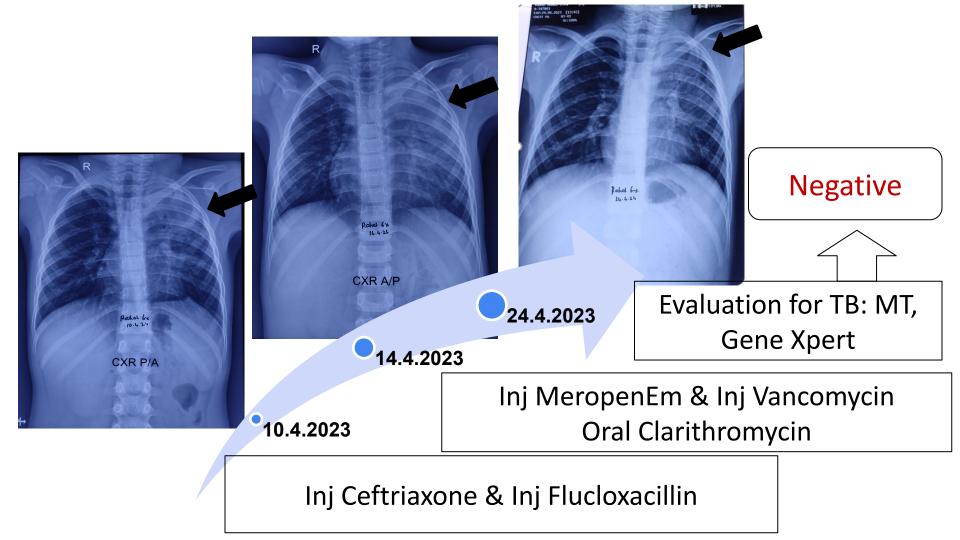
Case-2: Summary

Rahat, 6 years old boy,

- High grade intermittent fever- 12 days
- Productive Cough
- Weight loss

<u>O/E-</u>

- Ill looking, febrile
- Tachypnoeic
- Dyspnoeic
- Rhonchi & crepitation
 B/L

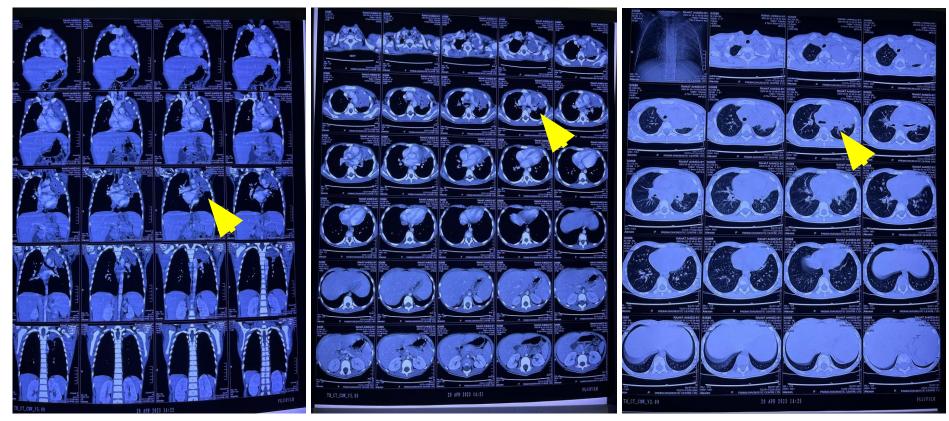


Case-2: Investigations-Blood

| Haemoglobin | 12.5g/dl |
|----------------|-------------------------------|
| WBC(TC) | 9,800/cumm |
| DC (N) | 83% |
| (L) | 12% |
| (E) | 2% |
| Platelet count | 2,50,000/ cumm |
| ESR | 36 mm in 1 st hour |

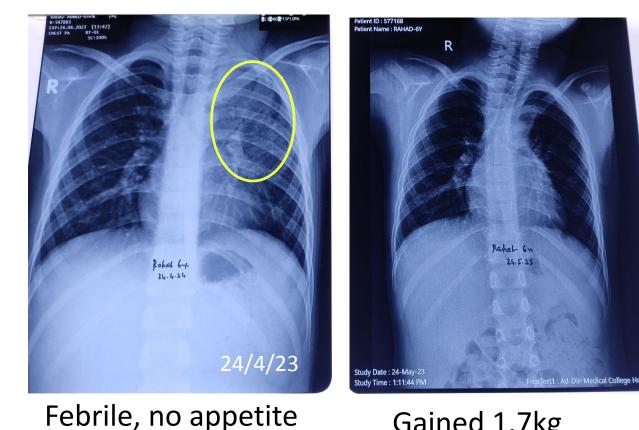
CRP-38 mg/dl

Blood C/S- No growth



<u>CT SCAN OF CHEST-</u> Large inhomogenously enhanced soft tissue density area with air bronchogram in apical, anterior and superior segments of upper lobe of left lung

Case-2: Course of treatment with ATT



Gained 1.7kg

Gained 2.4 kg

Rahad 6%

25.10.23

25/10/23

ient ID : R-758019

R

Case-2: Non-resolving Pneumonia due to TB





Case-2: Non-resolving pneumonia

Clinical syndrome

- Characterized by persistent clinical symptoms, with or without fever
- Failure of resolution of radiographic features by 50 % in 2 weeks or entirely in 4 weeks despite the antibiotic therapy for a minimum of ten days
- Cause-tuberculosis, drug-resistant bacteria, malignancy, foreign body and fungal pneumonia

Case-3 (Summary)

Rubina, 7 year old female child,

- High grade intermittent fever
- Cough
- Pain in right upper back
- Poor appetite
- Productive and fetid cough with reddish yellow sputum-5 days





25 days

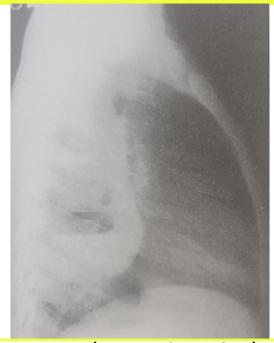
Case-3 (Examination findings)

- Toxic, febrile & anaemic
- Dyspnoeic
- Early finger clubbing
- No cyanosis or lymphadenopathy.
- Bronchial breath sound (right mid & lower zone) crepitation(right lower zone)

Case-3: Chest radiology



Thick walled, fluid filled cavity occupying right mid and lower zone of RL



Lung abscess in apical, posterior and lateral basal segments RLL & posterior segment RUL

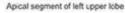
Case-3: Investigations-Blood

| Haemoglobin | 9 g/dl | • PBF -microcytic |
|----------------|-------------------------------|----------------------------------|
| WBC(TC) | 17,500/cu mm | Hypochromic anaemia |
| DC (N) | 84% | CRP-88 mg/dl |
| (L) | 14% | Blood C/S- |
| (E) | 2% | No growth |
| Platelet count | 2,50,000/cumm | |
| ESR | 90 mm in 1 st hour | |

Case 3-Treatment

- Antibiotics:
 - Inj. Ceftazidime Inj. Flucloxacillin
- Postural drainage







Posterior segment of left upper lobe



Superior segment of right lower lobe



Posterior basal segment of right lower lobe



Anterior segment of left upper lobe



Lateral basal segment of right lower lobe







Case 3- Lung Abscess







After 1 month treatment



Case-3: Necrotizing pneumonia

- Necrotizing pneumonia is a rare and severe complication
- of bacterial community-acquired pneumonia (CAP).
- Necrotizing pneumonia is characterized by pulmonary inflammation with consolidation, peripheral necrosis and multiple small cavities and is often accompanied by empyema and bronchopleural fistulae.
- Lying on a spectrum between lung abscess and pulmonary gangrene

Case-4 (Case summery)

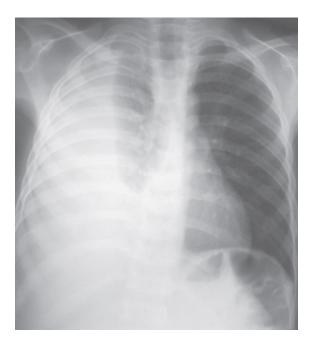
Sharmin, a female child aged 10,

- Fever & cough- 20 days
- Abdominal pain-15 days
- Respiratory distress-8 days

O/E- Toxic, febrile

- Wt-20 kg(<3rd centile)
- Tachypnoeic, dyspnoeic
- Tachycardia
- No lymphadenopathy or clubbing
- S/O pleural effusion (RL)
- Crepitation (LL)
- Hepatomegaly (non tender)

Case-4: Chest radiology



Homogeneous dense opacity obscuring the underlying lung having a curve line (meniscus sign)

Case-4: Investigations-Blood

| | | 7 |
|----------------|-------------------------------|---|
| Haemoglobin | 9.2 g/dl | |
| WBC(TC) | 11,500/cu mm | (|
| DC (N) | 40% | • |
| (L) | 50% | • |
| (E) | 2% | |
| Platelet count | 2,50,000/cumm | _ |
| ESR | 47 mm in 1 st hour | |

PBF-

combined deficiency

- CRP-78 mg/dl
- Blood C/S-

No growth

Case 4- Tube Thoracostomy



About 500 cc of thick greyish fluid collected immediately

The tube was kept in situ with other end in a water seal container

Case 4-Investigation (continued)

Pleural Fluid Analysis

- 190 ml greyish thick pus could be aspirated
- WBC 20,000/ cu mm (N 100%) ↑↑
- Sugar 04 mg/dl ↓↓
- Protein 5.5 gm/dl [↑]
- Culture no bacteria isolated

Case 4-Treatment

• Antibiotics:

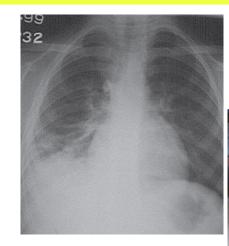
Ceftazidime, Flucloxacillin, Metronidazole-10 days

- Oral Ibuprofen
- Patient was discharged on 11th day with oral co-amoxiclav for another 2 weeks

Case-4: Empyema Thoracis





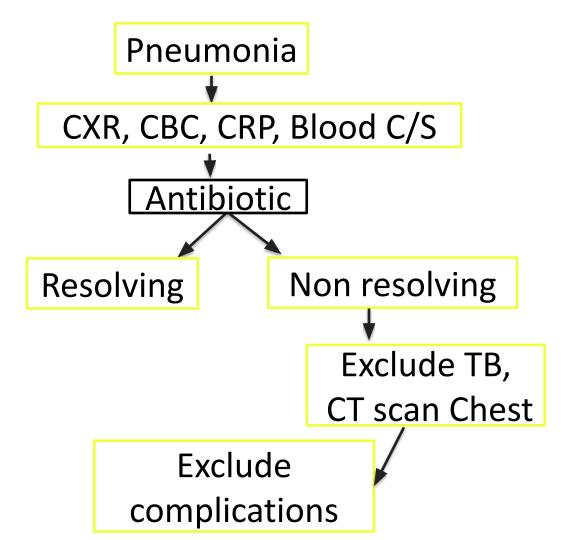






Empyema thoracis

- Empyema is an accumulation of pus in pleural space.
- It is always secondary to infection
- Primary infections include
 - bacterial pneumonia
 - lung abscess
 - pulmonary tuberculosis
 - bronchiectasis
- Common organisms Streptococcus pneumoniae, Haemophilus influenzae, staphylococcus aureus,
 Hinfluonza





THANK YOU