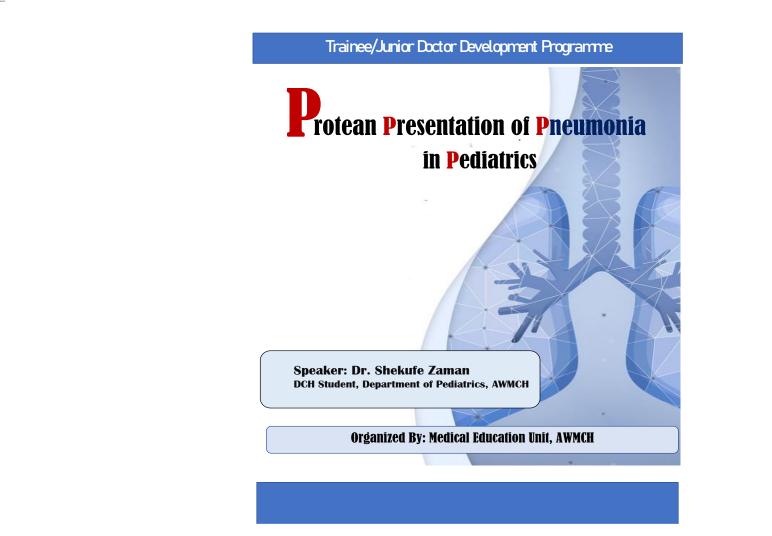
the picture car't be-displayed.



Case-1 (Case Summery)

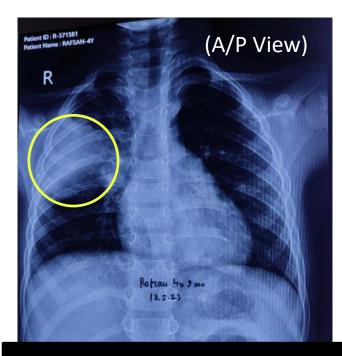
Rafsan, 4.5 years old boy,

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

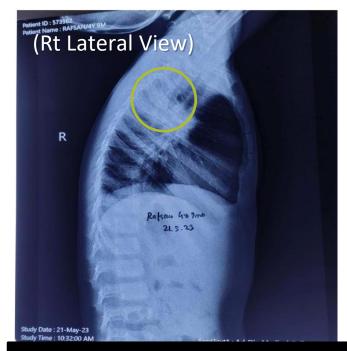
On Examination-

- 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

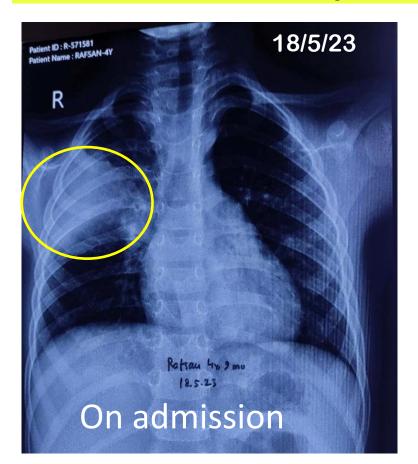


Homogenous opacity in apical and posterior segment of upper lobe & part of apical segment of lower lobe

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

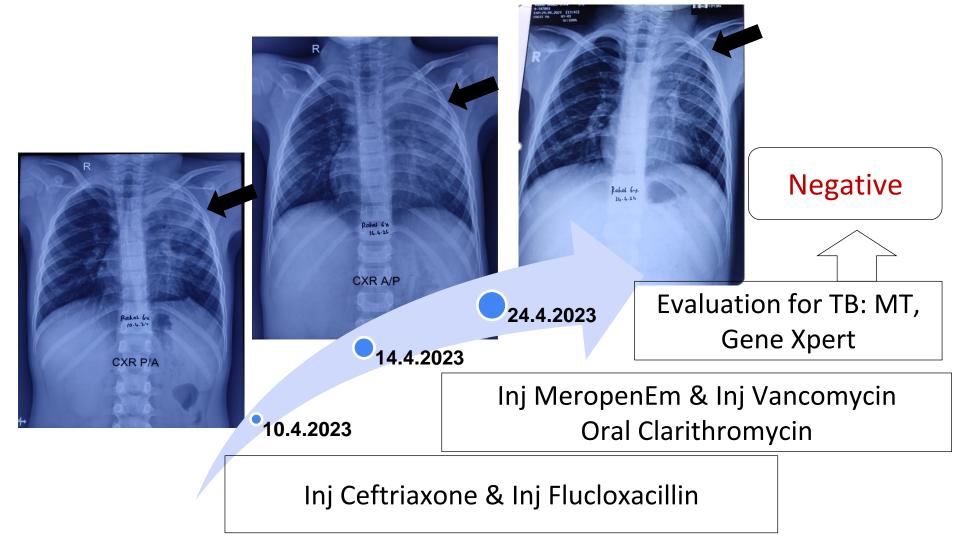
Case-2: Summary

Rahat, 6 years old boy,

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

<u>O/E-</u>

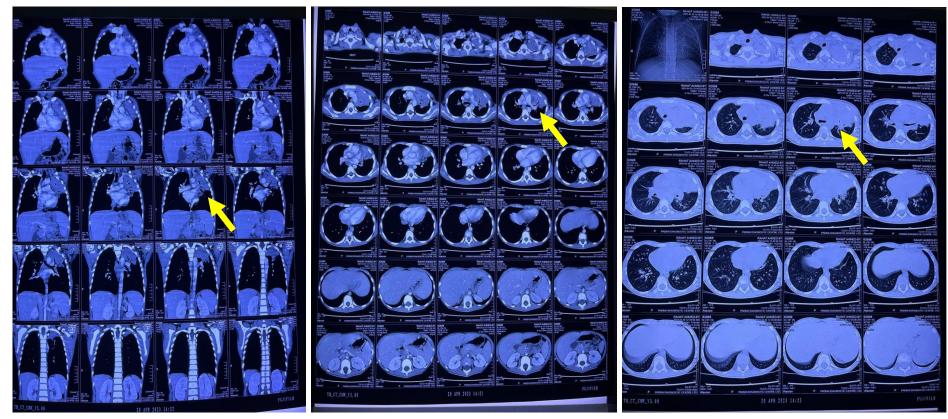
- Ill looking, febrile
- Tachypnoeic
- Dyspnoeic
- Rhonchi & crepitation
 B/L



Case-2: Investigations-Blood

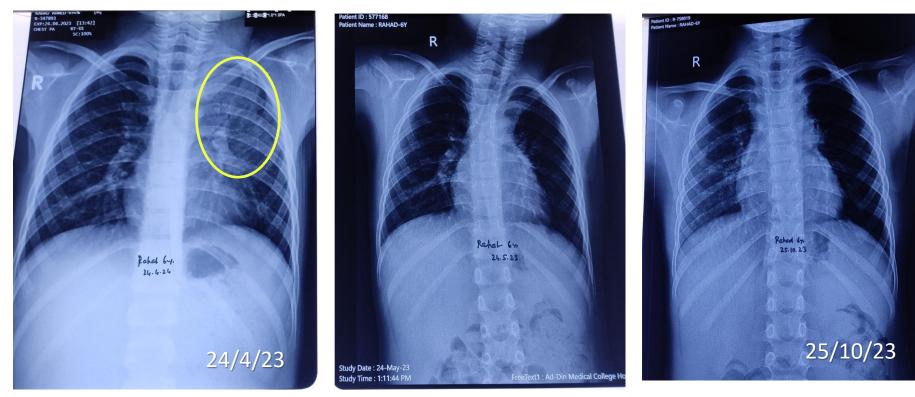
Haemoglobin	12.5g/dl
WBC(TC)	9,800/cumm
DC (N)	83%
(L)	12%
(E)	2%
Platelet count	2,50,000/ cumm
ESR	36 mm in 1 st hour

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



Febrile, no appetite

Gained 1.7kg

Gained 2.4 kg

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



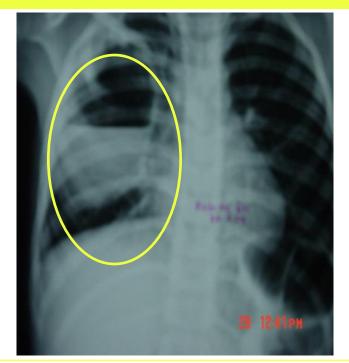


25 days

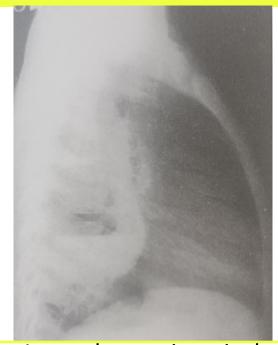
Case-3 (Examination findings)

- 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	•
WBC(TC)	17,500/cu mm	H
DC (N)	84%	•
(L)	14%	•
(E)	2%	
Platelet count	2,50,000/cumm	
ESR	90 mm in 1 st hour	

PBF-microcytic
 Hypochromic anaemia

CRP-88 mg/dl

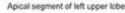
Blood C/S-

No growth

Case 3-Treatment

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







Posterior segment of left upper lobe





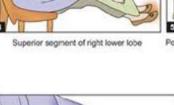
Posterior basal segment of right lower lobe





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

Haemoglobin	9.2 g/dl	•
WBC(TC)	11,500/cu mm	C
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:

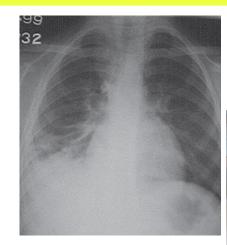
Ceftazidime, Flucloxacillin, Metronidazole-10 days

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

Case-4: Empyema Thoracis





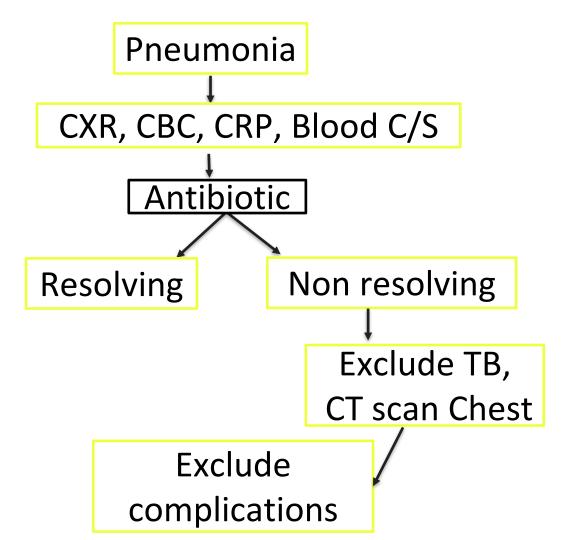


After recovery



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, Hinfluenza





THANK YOU