





Radiology Chest Radiograph Interpretation

"WHERE THE ART OF MEDICINE IS LOVED, THERE IS ALSO LOVE FOR HUMANITY.,,

HIPPOCRATES



DR. KHALEEL [MD Radiodiagnosis]



Dr. Khaleel Ahmed MD Radiodiagnosis

Director Arise Medical Academy

Connect with Dr. Khaleel



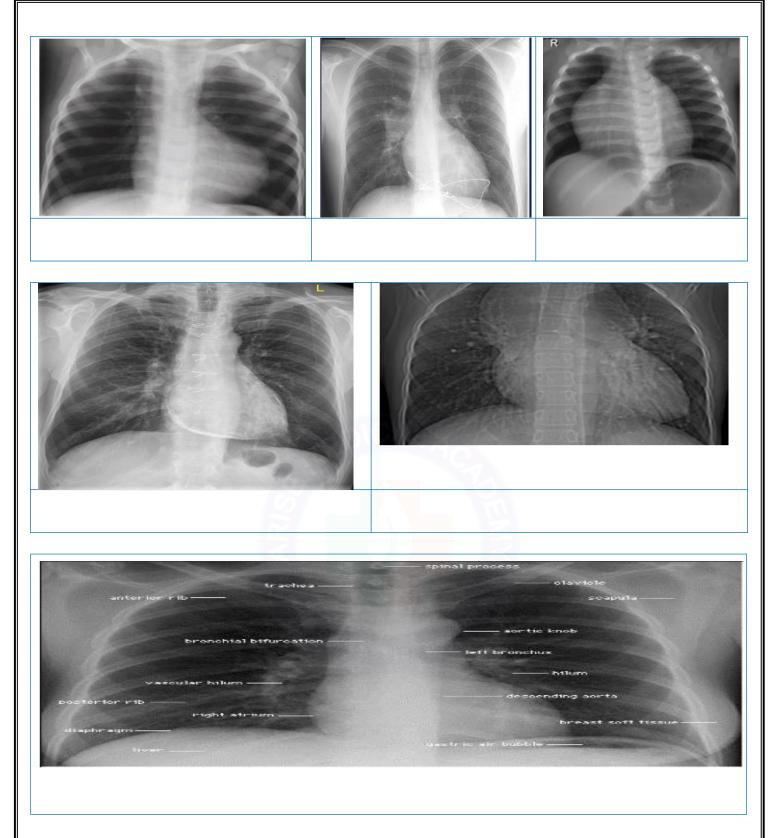
KNOW YOUR MENTOR!

For Medical students aspiring to excel in radiology one name stands out as a beacon of knowledge and expertise: **Dr. Khaleel Ahmed**.

A Nationally renowned **Radiology Faculty** and director of the Prestigious Arise Medical Academy.

His Passion for teaching and Commitment to empowering medical graduates for past 15 years have solidified his position as a revered educator. He has been an elite National faculty for the training of medical students for different exams like NEETPG, INICET, NEXT, FMGE.

As a director of the Arise Medical Academy, Dr. Khaleel Ahmed's contributions have and will continue to shape the future of Foreign Medical Graduates, ensuring they are equipped with the knowledge and confidence to make a difference in the world of medicine.





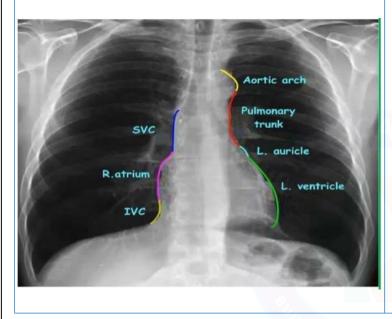
Posterior ribs - horizontal Anterior ribs - oblique





Dextrocardia

Dextrocardia with situs Inversus \rightarrow Kartagener syndrome



Most anterior chamber of heart- RV Most posterior chamber of heart - LA

Right heart border is NOT formed by- RV LT heart border is NOT formed by - LA

Volume gain	Volume loss	No net change in volume
Pneumothorax	Atelectasis,	\downarrow
Massive pleural effusion	Collapse,	Consolidation /
↓ .	Pneumonectomy	Pneumonia
Trachea shifts to opposite	↓ ,	\downarrow
side	Trachea shifts to same side	No tracheal shift

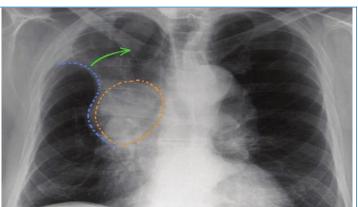


Rt middle lobe is in close contact with Rt heart border and overlaps cardiac shadow

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 CXR findings of Pneumonia / consolidation → No tracheal shift → Ill defined → Fluffy borders → air bronchogram
CXR findings of pleural effusion → Meniscus sign → Ellis curve → Concave upward curve → Obliteration of costophrenic angle
 CXR findings of lung collapse → Trachea and mediastinum shifts to → Same side → Bronchial cut off → Crowding of ribs Lobar Collapse → Sharp margins
 → Consolidation/pneumonia → Pulomonary edema → ARDS/HMD → broncho alveolar Ca





Golden S sign. \rightarrow Bronchogenic Ca with Rt upper lobe collapse

 \rightarrow Silouhette sign

Rt heart border is obscured by RML Pathology

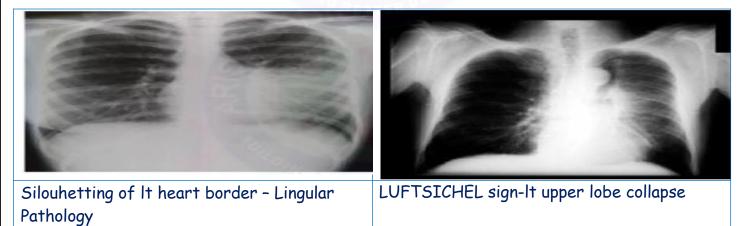
Lt heart border is obscured by lingularvpathology

Hemidiaphragms are obscured by LL pathologies

Aortic knuckle is obscured by It apico posterior pathology



Silouhetting of Rt heart border - RML pathology

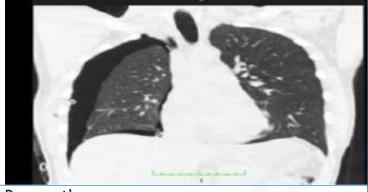


Sickle is formed by compensatory hyperinflation of superior segment of It lower lobe

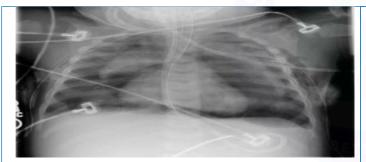


CXR findings of pneumothorax \downarrow

Absent bronchovascular markings Visceral pleural line Deep sulcus sign(supine CXR)



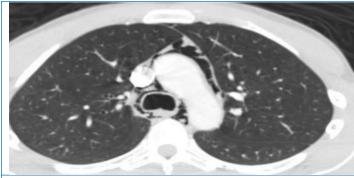
Pneumothorax



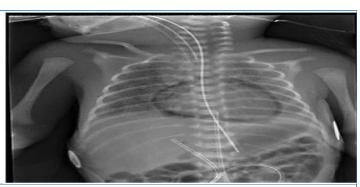
CXR findings of pneumomediastinum -> Spinnaker Sign (Angel wing sign) continous diaphragm Sign. Pneumomediastrum air around aorta, PA, bronchus, trachea

•Boerrharve Syndrome - Esophageal preforation causing Pneumomediastinum Naclerios V sign

 \rightarrow Thymic Sail sign -normal



Pneumomediastinum



Pneumopericardium



Air under Rt hemidiaphragm \rightarrow hollow viscus perforation / pneumoperitoneum

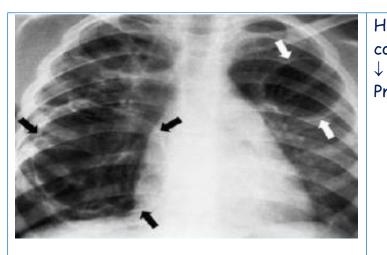
 $\mathsf{Rx} \to \mathsf{I}.\mathsf{V}$ fluids + Emergency laprotomy



Rt pleural effusion



Horizontal air fluid level \rightarrow Hydropneumothorax



Hospitalised child with fever and cough

 $Pneumatoceles \rightarrow M.\mathcal{C} \rightarrow Staph \ Aureus$

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