

QUICK REFERENCE GUIDE

RADIOLOGY & IMAGING

Easy to Diagnose, Easy to Learn

SK+F

Contents

Name	Page
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X-RAY-

Respiratory System-

• Normal	03
• Cervical Rib	04
• Situs Inversus	05
• COPD	06
• Bronchiectasis	07
• Pleural Effusion	08
• Pneumothorax	09
• Hydropneumothorax	10
• Lobar Pneumonia	11
• Bronchopneumonia	12
• Pulmonary TB	13
• Miliary TB	14
• Lung Collapse	15
• Pancoast's Tumour	16
• Lung abscess	17

Cardiovascular System-

• Mitral stenosis	18
• Pericardial effusion	19
• Tetralogy of Fallot	20

Abdominal X-ray-

• Normal	21
• Solitary Kidney Calculus	22
• Bilateral Kidney Calculi	23
• Staghorn renal calculi	24
• Pneumoperitoneum	25
• Small Bowel obstruction	26
• Large Bowel Obstruction	27
• Sigmoid Volvulus	28

Name	Page
------	------

Rheumatological System-

• Osteoporosis	29
• Tophaceous Gout	30
• Rheumatoid hands	31
• Transverse fracture	32
• Segmental fracture	33

CT Scan-

CT chest-

• Bronchiectasis	34
• COVID Pneumonia	35
• Lung Collapse	36

CT Brain-

• Subarachnoid Hemorrhage	37
• Hemorrhage in cerebrum	38
• Subdural Hematoma	39
• Epidural Hematoma	40
• Scalp Hematoma	41
• Cerebral Infarct	42
• Skull metastasis	43
• Lacunar Infarct	44

CT HBS-

• Hydatid cyst in liver	45
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X-ray

RESPIRATORY SYSTEM:



NORMAL CXR P/A VEIW

Findings:

CXR PA view showing:

- Lung fields are clear on both sides
- Trachea is central in position or slightly deviated to the right
- Both domes of diaphragm are normal in position
- Costophrenic and cardio-phrenic angles are clear on both sides
- The heart is normal in transverse diameter
- Bony configuration is normal

Dx: Normal CXR



CERVICAL RIB

Findings:

CXR PA view showing:

- Unusual shadow arising from both sides of seventh cervical vertebrae resembling ribs

Dx: Bilateral Cervical Rib



SITUS INVERSUS

Findings:

CXR PA view showing:

- Apex of the heart on the right side
- Left dome of the diaphragm is elevated

Dx: Situs Inversus



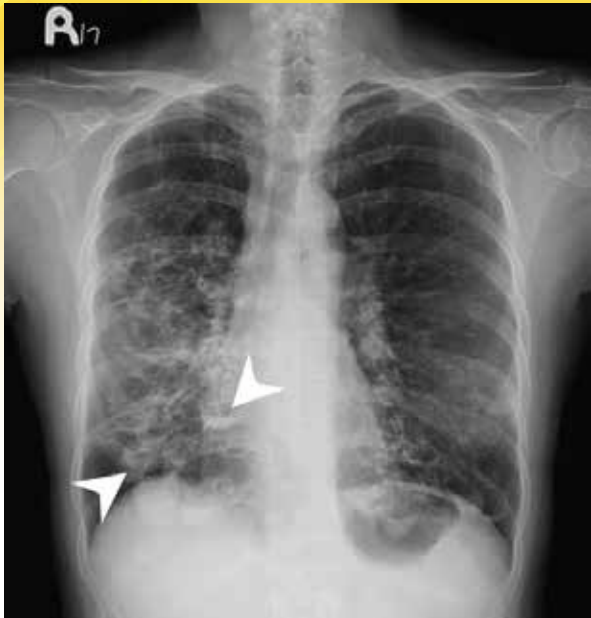
COPD

Findings:

CXR PA view showing:

- Lung fields are hyper-translucent
- Low and flat diaphragm
- Heart is elongated and tubular
- Ribs are widely spaced
- Blood vessels are less prominent

Dx: COPD



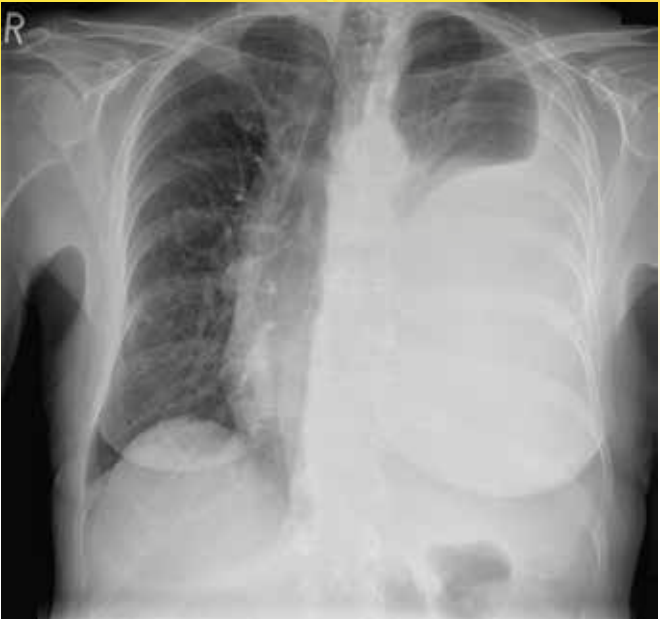
BRONCHIECTESIS

Findings:

CXR PA view showing:

- Multiple ring-like translucent shadows involving the mid & lower zone of right lung

Dx: Bronchiectasis



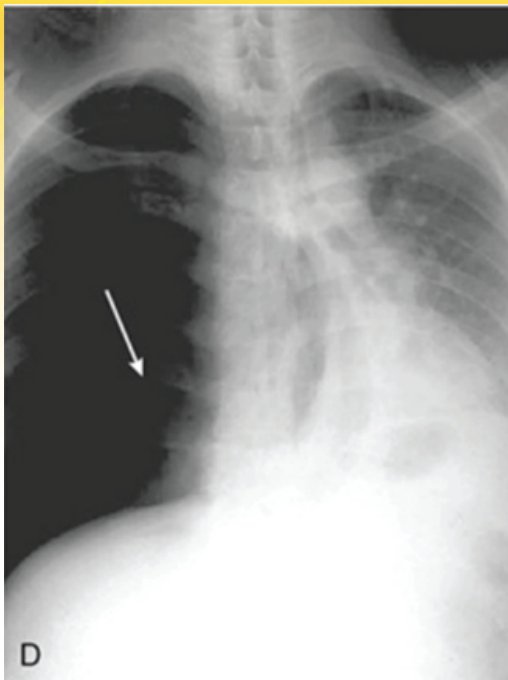
PLEURAL EFFUSION (Left sided massive)

Findings:

CXR PA view showing:

- Homogeneous opacity with concave upper margin
- Costophrenic and cardiophrenic angles are obliterated on the left side
- Trachea shifted to the right

Dx: Left sided massive Pleural Effusion



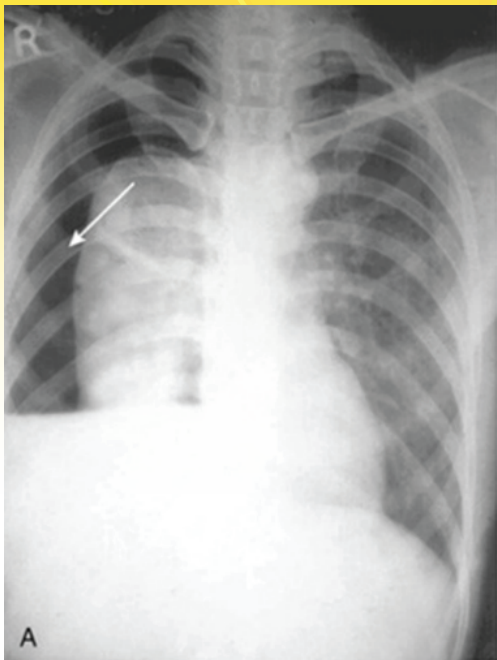
PNEUMOTHORAX

Findings:

CXR PA view showing:

- Increased translucency on the right side.
- Trachea and heart (mediastinum) are shifted to the left side

Dx: Right-sided Pneumothorax



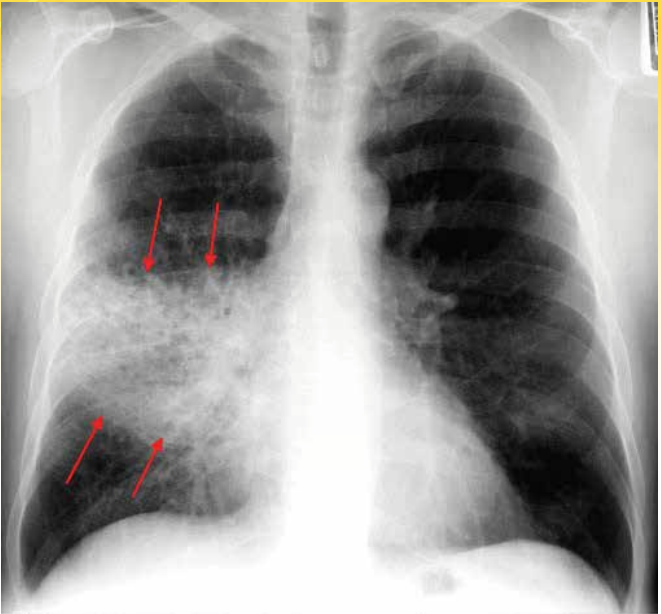
HYDROPNEUMOTHORAX

Findings:

CXR PA view showing:

- Increased translucency with collapsed lung margin on the right side
- Horizontal fluid level with obliteration of right costophrenic and cardiophrenic angles

Dx: Right-sided Hydropneumothorax



LOBAR PNEUMONIA

Findings:

CXR PA view showing:

- Homogeneous opacity in mid-zone of right lung with air bronchogram within it
- Rest of the lung fields are clear
- Costophrenic and cardiophrenic angles are not obliterated

Dx: Lobar Pneumonia



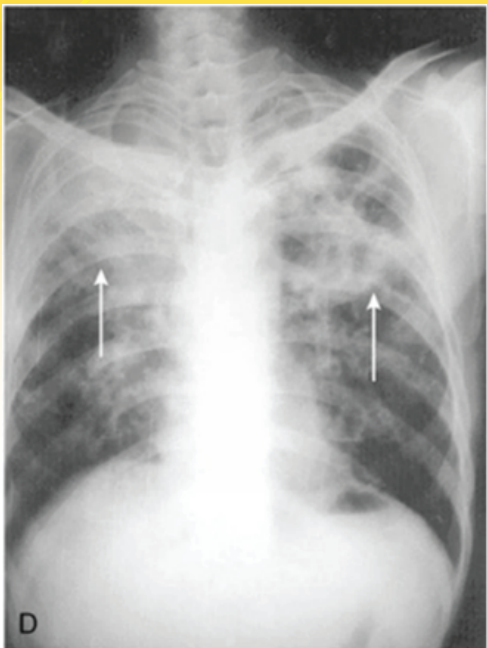
BRONCHOPNEUMONIA (BILATERAL)

Findings:

CXR PA View showing

- Multiple small bilateral areas of patchy confluent opacification, lower zone predominant
- Costophrenic and cardiophrenic angles are not obliterated

Dx: Bronchopneumonia



PULMONARY TB (EXTENSIVE)

Findings:

CXR PA view showing:

- Partly homogeneous and partly patchy opacities in right upper and part of the mid-zone, obscuring the right para cardiac border
- Multiple patchy opacities with a cavity formation in left upper and part of midzone

Dx: Bilateral extensive Pulmonary Tuberculosis



MILIARY TB

Findings:

CXR PA view showing:

- Multiple miliary mottling involving all the zones of both lung fields

Dx: Miliary TB



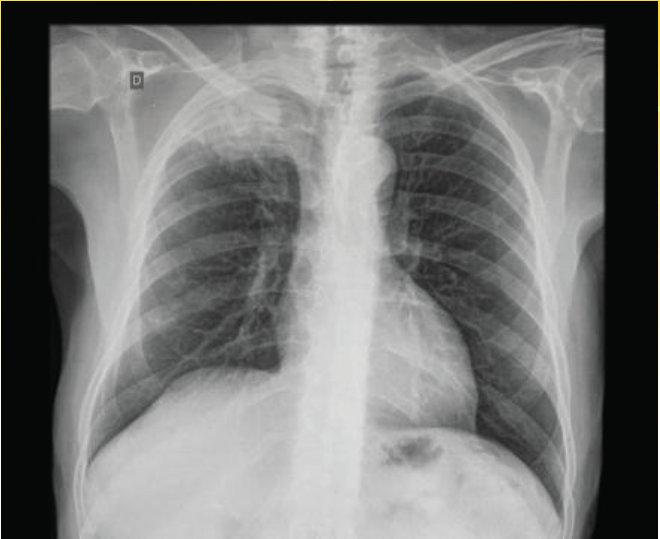
LEFT LUNG COLLAPSE

Findings:

CXR PA view showing:

- Homogeneous opacity in all zones of left lung
- Trachea is shifted to the left

Dx: Left Lung Collapse



BRONCHIAL CARCINOMA (PANCOAST'S TUMOR)

Findings:

CXR PA view showing:

- Homogeneous opacity in right upper-zone
- Rest of the lung fields are clear

Dx: Bronchial Carcinoma (Pancoast's Tumor)



LUNG ABSCESS

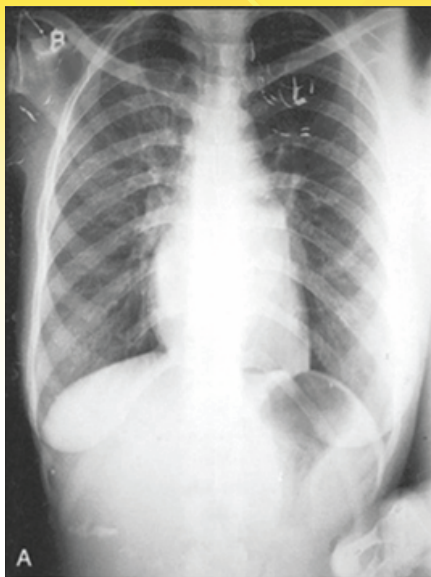
Findings:

CXR PA view showing:

- A cavity with air–fluid in the right upper and part of mid-zone

Dx: Lung Abscess.

CARDIOVASCULAR SYSTEM:



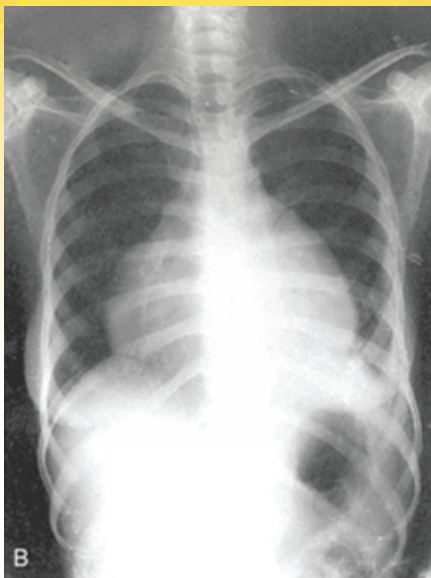
MITRAL STENOSIS

Findings:

CXR PA view showing:

- Heart is normal in transverse diameter with straightening of left border

Dx: Mitral Stenosis



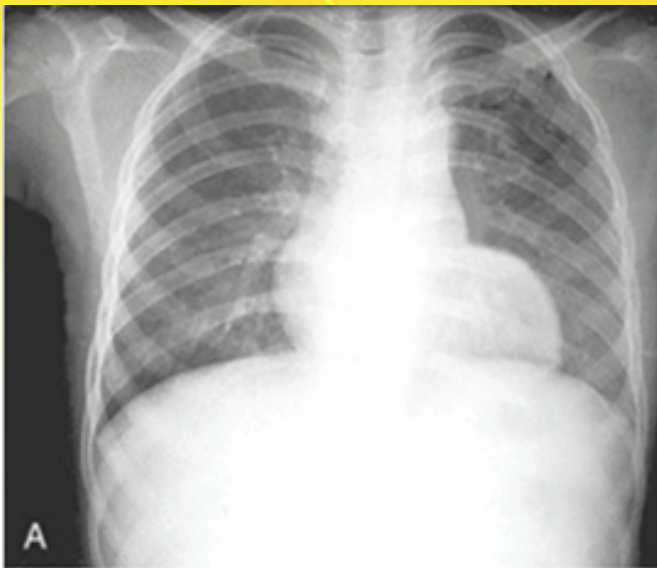
PERICARDIAL EFFUSION

Findings:

CXR PA view showing:

- Heart is enlarged in transverse diameter, globular and pear shaped with clear margin
- Lung fields are oligoemic
- Both cardiophrenic angles are acute

Dx: Pericardial Effusion



TETRALOGY OF FALLOT (TOF)

Findings:

CXR PA view showing:

- Boot-shaped heart (apex is lifted up and there is concavity or bay in the region of pulmonary artery)
- Oligemic lung fields (Hilar vessels are few, lung vessels also few, large right ventricle and small pulmonary artery may be present)

Dx: Tetralogy of Fallot (TOF)

ABDOMINAL X-RAYS:



NORMAL ABDOMINAL PLAIN XRAY A/P VEIW

Findings:

X-ray Abdomen AP view showing:

- The small bowel lies centrally
- The large bowel lies peripherally
- The bladder may be seen as a soft tissue density arising from the pelvic floor
- The stomach is normally outlined with air below the left hemidiaphragm

Dx: Normal Findings on Abdominal X-Ray



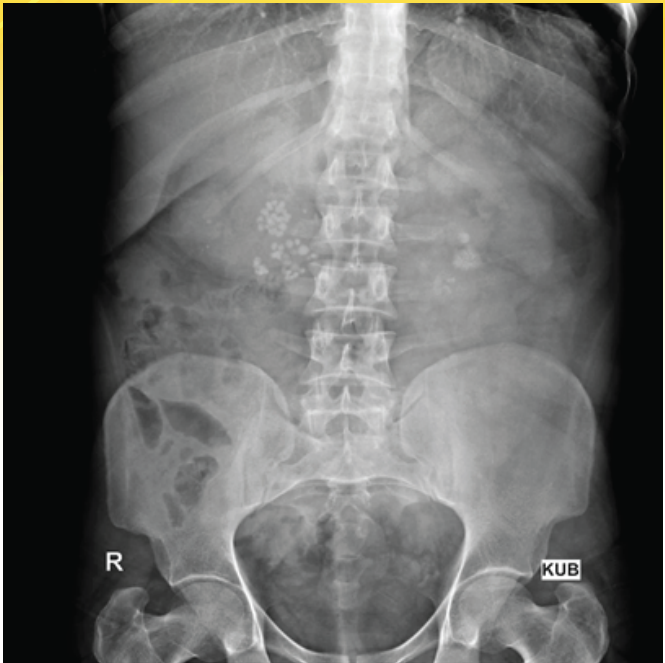
SOLITARY KIDNEY CALCULUS

Findings:

X-ray KUB Region showing:

- Round opacification at right lumbar region

Dx: Solitary Renal Calculus



BILATERAL KIDNEY CALCULI

Findings:

X-ray KUB Region showing:

- Multiple renal stones in both kidneys especially in the right side

Dx: Bilateral Renal Calculi



STAGHORN RENAL CALCULI

Findings:

X-ray KUB Region showing:

- Calcified shadow along the pelvicalyceal system on the both sides

Dx: Staghorn Renal Calculi



PNEUMOPERITONEUM (GASTRIC PERFORATION)

Findings:

X-ray Abdomen erect position including both diaphragms showing:

- Free gas shadow under both diaphragm

Dx: Pneumoperitoneum probably due to Gastric Perforation



SMALL BOWEL OBSTRUCTION

Findings:

X-ray Abdomen AP view showing:

- Dilated loops of small bowel proximal to the obstruction
- Predominantly central dilated loops
- Valvulae Conniventes are visible

Dx: Small Bowel Obstruction



LARGE BOWEL OBSTRUCTION

Findings:

X-ray Abdomen AP view showing:

- Dilated bowel loops that are peripheral, contain haustra and contain faeces

Dx: Large Bowel Obstruction



SIGMOID VOLVULUS

Findings:

X-ray Abdomen AP view showing:

- Coffee bean sign

Dx: Sigmoid Volvulus

RHEUMATOLOGICAL SYSTEM:



OSTEOPOROSIS

Findings:

X-ray of Lumbodorsal Spine lateral view showing:

- Diffuse osteopenia involving the body of all vertebrae
- Linear calcification in front of the vertebral column
- Displacement of L5 posteriorly with reduction of joint space between L5 and L4

Dx: Osteoporosis with Aortic Calcification with Spondylolisthesis (L4 and L5)



TOPHACEOUS GOUT

Findings:

X-ray of left foot showing:

- Two bony outgrowths, one large involving the first MTP joint and one small in the second DIP joint
- Presence of lytic lesion

Dx: Chronic Tophaceous Gout



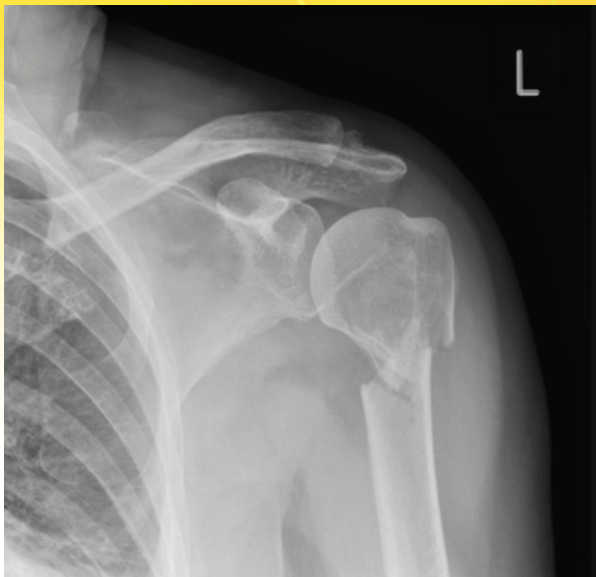
RHEUMATOID HANDS

Findings:

X-ray of both hands AP view showing:

- Periarticular osteopenia in metacarpophalangeal and proximal interphalangeal (PIP) joints
- Reduction of joint space of all the PIP joints of both hands
- Ulnar deviation of both hands with ankylosis of carpal bones

Dx: Rheumatoid Arthritis



TRANSVERSE FRACTURE

Findings:

X-ray left arm including shoulder joint A/P view showing:

- Transverse fracture through the proximal humerus with displacement of the distal component

Dx: Transverse Fracture of Humerus (Left)



SEGMENTAL FRACTURE

Findings:

X-ray leg A/P and lateral view showing:

- Segmental fracture of Tibia & transverse fracture of Fibula

Dx: Fracture of Tibia & Fibula (Right)

CT SCANS

CT CHEST:



BRONCHIECTESIS

Findings:

CT chest showing:

- Multiple ring-like dilations of bronchi in both lungs, more on the right side

Dx: Bronchiectasis



Findings:

CT chest showing:

- Bilateral multiple peripheral ground-glass opacities with some crazy-paving appearances

Dx: COVID Pneumonia



LUNG (LEFT) COLLAPSE

Findings:

CT Chest showing:

- Left upper lobe collapse and infiltrations in the lower lobe

Dx: Left Lung Collapse

CT CHEST:



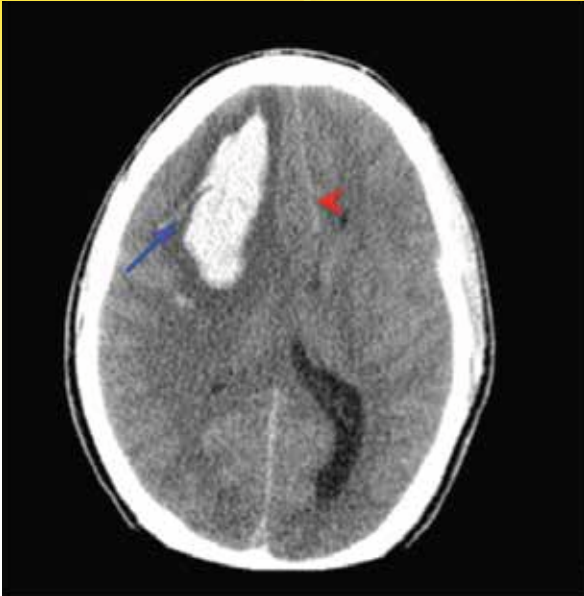
SAH

Findings:

CT Brain showing:

- Hyperdense material is seen filling the subarachnoid space apparent around the Basal Cisterns, Sylvian Fissures and Tentorium

Dx: SAH (Subarachnoid Hemorrhage)



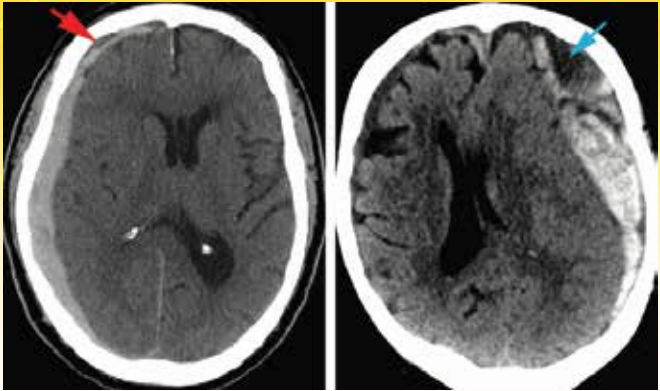
HEMORRHAGE IN CEREBRUM

Findings:

CT Brain showing:

- An acute hemorrhage in the right frontal lobe with associated vasogenic edema (blue arrow), and right-to-left midline shift (red arrowhead)
- The presence of sulcal effacement suggests diffuse cerebral edema

Dx: Hemorrhage in Cerebrum



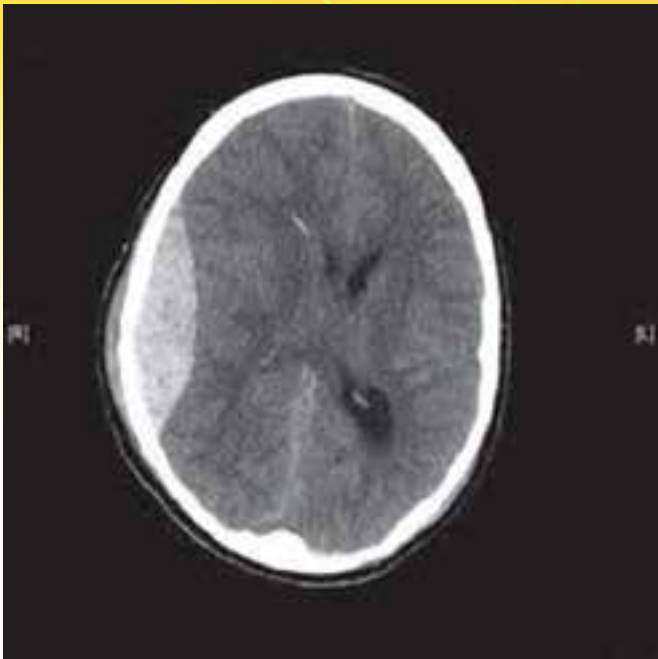
SUBDURAL HEMATOMA

Findings:

CT Brain showing:

- Hyperdense (white), crescent-shaped (concavo-convex) mass between the inner table of the skull and the surface of the cerebral hemisphere

Dx: Subdural Hematoma



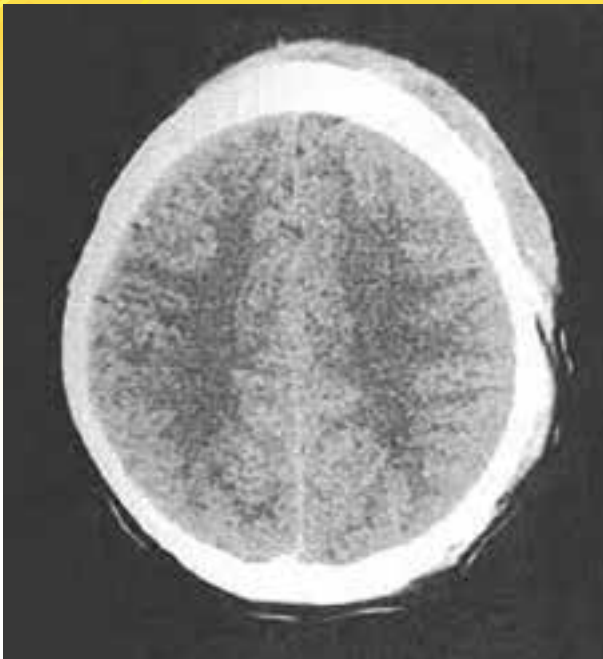
EPIDURAL HEMATOMA

Findings:

CT Brain showing:

- Hyperdense, somewhat heterogeneous, and sharply demarcated biconvex shadow beneath the squamous part of the temporal bone

Dx: Epidural Hematoma



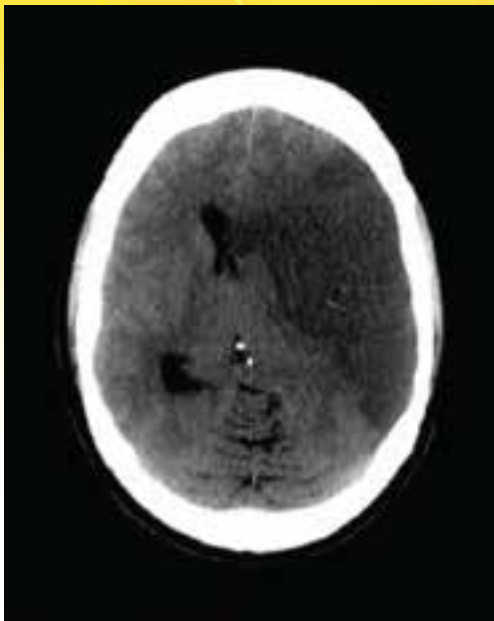
SCALP HEMATOMA

Findings:

CT Brain showing:

- Swelling of the scalp soft tissues

Dx: Scalp Hematoma



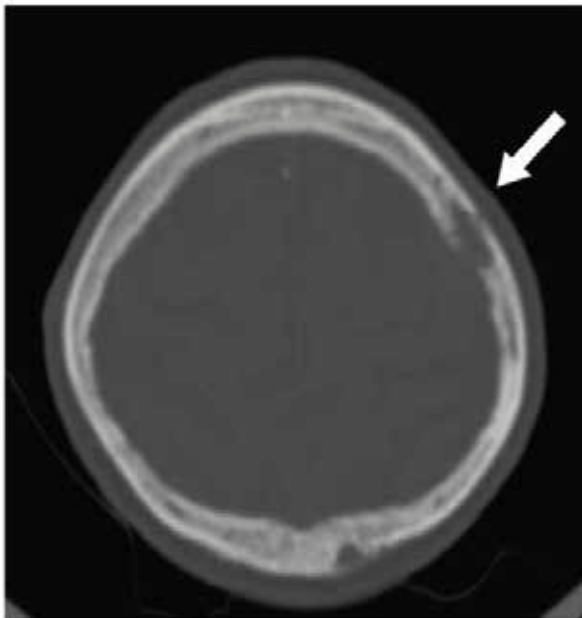
ISCHEMIC STROKE

Findings:

CT Brain showing:

- Hypodensity (cytotoxic edema) in Left Frontoparietal region of cerebrum

Dx: Cerebral Infarct



SKULL METASTASIS

Findings:

CT Brain showing:

- Multiple destructive (lytic) bone lesions of the skull due to bone metastases

Dx: Skull metastasis



LACUNAR INFARCT

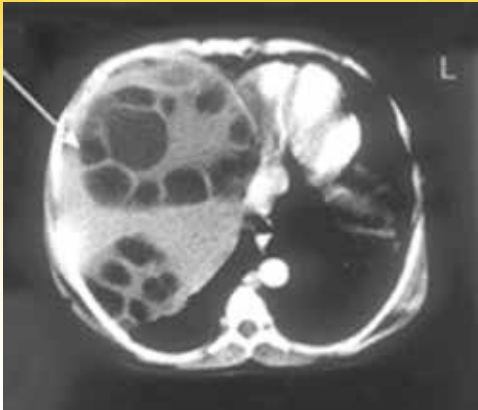
Findings:

CT Brain showing:

- Old lacunar infarcts in the left basal ganglia and internal capsule areas

Dx: Lacunar Infarct

CT HBS:



HYDATID CYST IN LIVER

Findings:

CT scan of HBS showing:

- Multiple hypodense areas with multiple septations, involving the liver

Dx: Hydatid cyst in Liver

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The logo consists of the letters 'SK' in a bold, blue, sans-serif font, followed by a blue plus sign, and then the letter 'F' in the same bold, blue, sans-serif font.

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