Radiology - The Basics

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Radiology

- Four year residency
- Fellowships common
- Basic element of medical care
- Frequently the test that results in patient admission/diagnosis

Basic Concepts

- One view is no view - use it all!
- Patterns are your clue
- Be sure you are looking
- Know what you’re looking for
- Know the limits of your test
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One View is No View

Posterior sulcus nodule = Cancer

One View is No View

RML collapse
One View is No View

Pectus excavatum, not pneumonia

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Patterns are Your Clue

Interstitial Lung Disease - Acute

PCP Pneumonia

Patterns are Your Clue

Pneumonia

Air Space Consolidation

Patterns are Your Clue
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- SB > 3cm
- Continuous valvulae
- Paucity colonic gas
- Multiple non-colonic A/F levels

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Kartegener's Syndrome

"Rule out pneumonia"
Marked free intraperitoneal air
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- **Know what you’re looking for**
- Know the limits of your test

Know What You’re Looking For

**PNEUMOTHORAX**

- Skin fold - no intervention
- Gray edge with peripheral markings
- Failed line placement, SOB:
  Thin line without peripheral lung markings = pneumothorax
Know What You’re Looking For

Pneumothorax + mediastinal shift
= Tension Pneumothorax

Know What You’re Looking For

PNEUMOMEDIASTINUM
Air paralleling trachea, bronchi, left heart border

Know What You’re Looking For

1. Trauma Board
2. Wide mediastinum
3. NG deviation
4. Tracheal deviation
5. Left apical cap
Know What You’re Looking For

Aortic Transection X 2

Know What You’re Looking For

35 year old with Lymphoma
65 year old with Pulmonary Arterial Hypertension

Know What You’re Looking For

PNEUMOPERITONEUM

Upright - Nondependent point
Know What You’re Looking For

Supine – Double Bowel Wall Sign
Outlining of liver/GB

Know What You’re Looking For

35 year old with recurrent abdominal pain:
Extensive pancreatic calcification = recurrent pancreatitis

Know What You’re Looking For

35 year old with bloody diarrhea
Thumb-printing transverse colon = Colitis
Know What You’re Looking For

- Bowel dilatation
- Pneumatosis
- Portal venous gas

June 3, 1965

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Know the Limits of Your Test

- Screening tests come first
- Secondary tests come second
- Basic decision trees work for most, but not all, patients

35 year old on BCP with acute Shortness of breath

40 year old with confusion after skull fracture

Subdural hematoma
80 year old fell in bath tub this AM, unable to bear weight = Femoral neck fracture

Know the Limits of Your Test

Take time to consider your test first, and review the results after.

You’ll be the star of your team!
Dust and gas in the constellation of Sagittarius