ICU Imaging

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Disclosures:

- I have no conflicts of interest or financial disclosures

- I am NOT a radiologist but clinical decisions can’t always wait for a radiology read
Computerized Tomography (CT) Basics

Ionizing Radiation

Water content (and therefore density) of tissues

Hounsfield scale:

Air 1000  
Water 0  
Bone 3000  
Gold 30,000
What is White (Bright) on CT?

3 B's
- Bones
- Bullets
- Blood (Acute Intracranial)

2 C's
- Calcium
- Contrast (oral, IV, rectal)
Normal Imaging Anatomy
Lung
Lung
Lung
Lung
Lung
Lung
Heart/Aorta
Heart/Aorta

Aortic Dissection
• Type A – involving ascending aorta

• Type B – involving descending aorta
Heart/Aorta
Heart/Aorta

Classic transection point at areas of aortic tethering at ligamentum arteriosum
The best things in life aren’t free:
free fluid and free air
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Liver

Pathology:

- Vascular: inflow versus outflow
- Biliary system
- Parenchymal
- Trauma
Liver
Liver
Liver
Liver
Spleen
Spleen
Gallbladder
Gallbladder
Gallbladder
Pancreas
Pancreas
Pancreas
Pancreas
Pancreas
Adrenal Glands
Adrenal Glands
Kidneys
Kidneys
Kidneys
Kidneys
Bowel
Bowel
Bowel
Bowel
Bowel
Bowel