57 yr old man with chest pain

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Situs Inversus Totalis
Purple arrow: Labeled LEFT, correctly
Green arrow: Liver on the left
Blue arrow: Right arch
Red arrow: Cardiac apex directed to the right
Situs inversus totalis

• Differentiate from isolated dexotrocardia (cardiac apex right, abdominal organs normal)

• Associated abnormalities
  – 20% have Kartagener syndrome
  – SI, bronchiectasis, sinusitis
  – Associated bowel malrotation increases risk for volvulus
Situs inversus totalis

- Imaging features on chest radiograph to evaluate are:
  - location of cardiac apex
  - location of aortic arch
  - location of stomach bubble / liver
References

• Situs Revisited: Imaging of the Heterotaxy Syndrome, *radiographics*