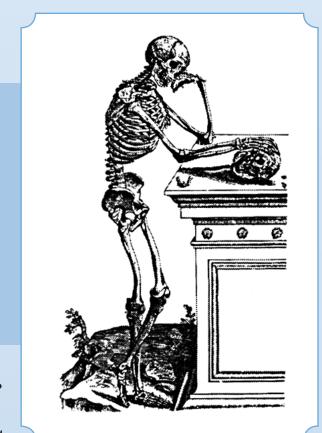
Society of Skeletal Radiology

Sunday, March 25, 2018

Case of the Day 1: #SSR18COD1

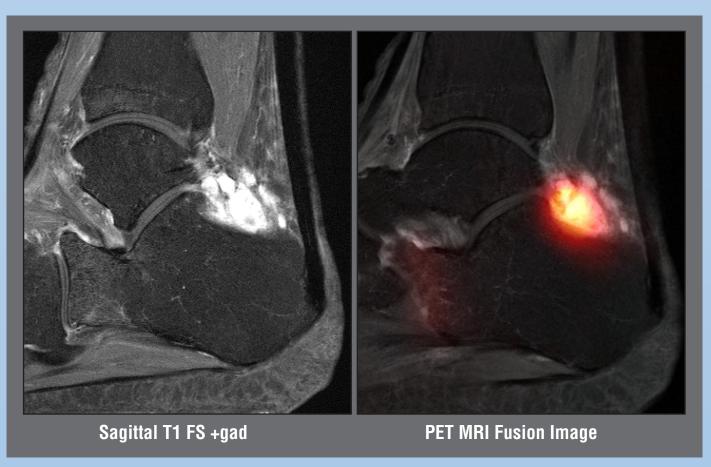
Andrew Chow, M.D., Joseph Bestic, M.D., Daniel Wessell, M.D., Ph.D. Mayo Clinic Florida, Jacksonville, FL



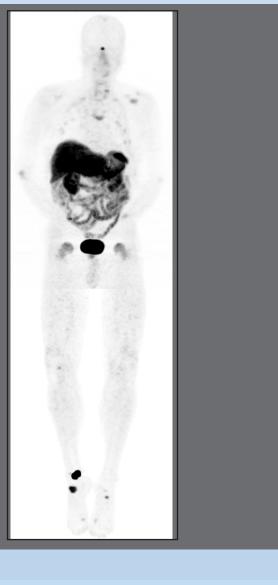
History:

- 52-year-old man
- Remote history of AML and squamous cell carcinoma of the tongue
- Worsening severe bilateral hip pain
- Found to have multiple atraumatic rib and vertebral body fractures









Diagnosis: Oncogenic osteomalacia related to benign phosphaturic mesenchymal tumor

- Rare paraneoplastic syndrome of unknown etiology
- Characterized by:
 - Fibroblast growth factor 23 expression
 - Hypophosphatemia and inappropriate phosphaturia
 - Fragility fractures
- Resection is curative
 - Can be located anywhere in the body
 - Imaging techniques include:
 - 111Indium-pentetreotide scintigraphy
 - 18F-FDG PET/CT
 - 68Ga-DOTATATE PET/CT