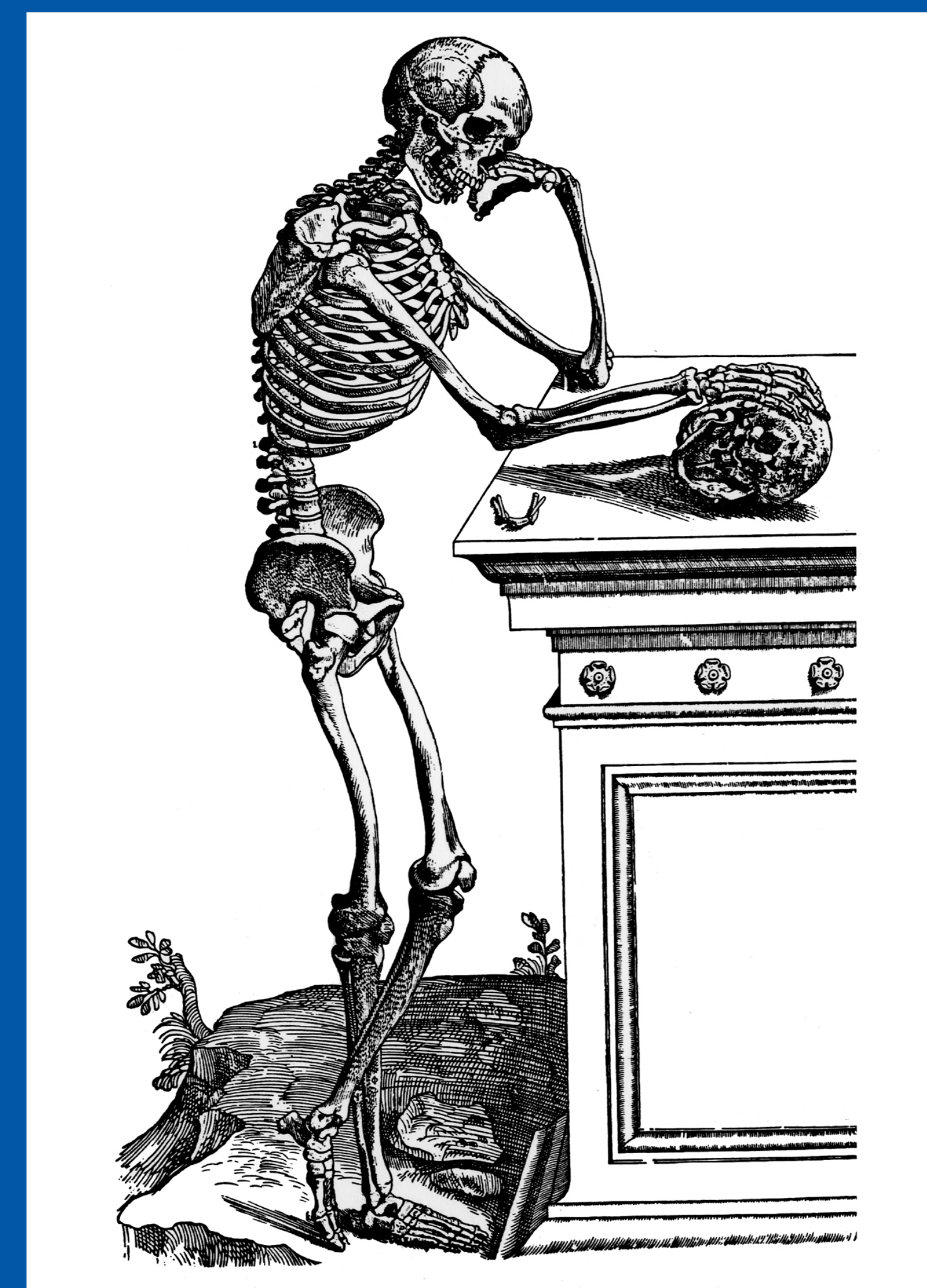


43rd Annual Meeting, Huntington Beach, California Society of Skeletal Radiology

March 29 - April 1, 2020

CASE OF THE DAY: TUESDAY

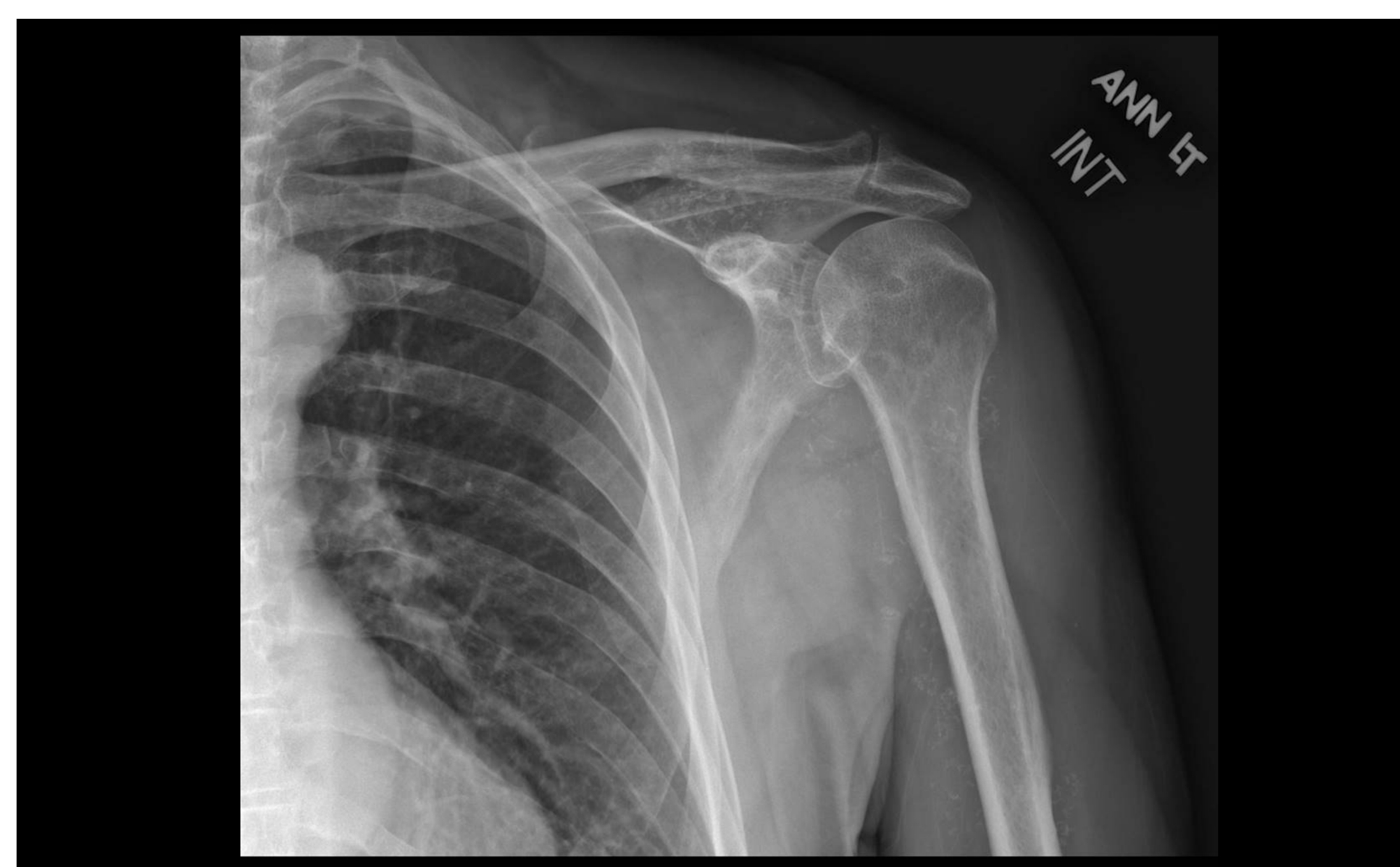
 #SSRBONE20COD5



Tyler McKinnon, DO; Rupert Stanborough, MD; Joseph Bestic, MD
Mayo Clinic, Jacksonville, FL

HISTORY

- 62-year-old male
- Worsening right arm pain and swelling for 2 years
- History of prostate cancer



DIAGNOSIS

Primary Synovial Osteochondromatosis

- Primary and secondary types
 - Primary: Benign metaplastic synovial membrane proliferation and formation of cartilaginous and osseous bodies of similar size and shape
 - Secondary: coexistent osteoarthritis with usually fewer osteochondral bodies present of varying size and shape
- Primary- most frequently men in 3rd to 5th decade
- Joints affected in descending order of frequency: knee, hip, glenohumeral joint, elbow and ankle
- Less common in tendon sheaths and periarticular bursa; occasionally extending into adjacent soft tissues
- Radiographs and CT: multiple radiopaque loose bodies that may not show any calcification
- MR findings; bodies demonstrate intermediate T1 and high T2 with foci of calcification low signal intensity on all sequences

