History

57 year old man with multiple medical problems and multiple sites of pain.
Coronal proton density MRI through the left hip

Axial proton density MRI through the pelvis
Findings

Radiographs demonstrate marked soft tissue swelling of the right shoulder and a relative preservation of the glenohumeral joint. Renal dialysis catheter is present. Right wrist demonstrates marked atherosclerotic disease with suggestion of multiples radiolucencies or “holes in the bones” of the right wrist. MRI demonstrates multiple cyst like foci about the left hip with preservation of the left hip joint. There is also massive thickening of the bilateral hamstring origins.
What's the Diagnosis - Case 12

- Profound soft tissue swelling
- Preserved joint space
- Dialysis catheter

- Multiple radiolucencies ("holes in the bones")
- AP view of the right wrist

- AP view of the right shoulder
What's the Diagnosis - Case 12

Coronal reformatted CT image of the right wrist

Prominent radiolucencies of the carpal bones...

Coronal reformatted CT image of the right wrist

...most notably of the scaphoid
Coronal proton density MRI through the left hip

Cyst like areas of the left femur with preservation of joint space (JS).

Axial proton density MRI through the pelvis

Profound thickening hamstring origins
Diagnosis: Amyloidosis

Amyloidosis can occur as a primary, idiopathic process but is more commonly seen in the setting of renal pathology or multiple myeloma. There are multiple types of amyloid that can be deposited about the musculoskeletal system. Deposition is typically in the periarticular soft tissue, within tendons or ligaments, or within the bones about a joint. Deposition of the osseous structures is seen as nonspecific radiolucencies which can appear as soft tissue or cyst like lesions on cross sectional imaging. There is classically a relative preservation of the joint space which on occasion may be narrowed from a long standing process or secondary processes such as osteonecrosis with secondary arthrosis.
Diagnosis: Amyloidosis


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