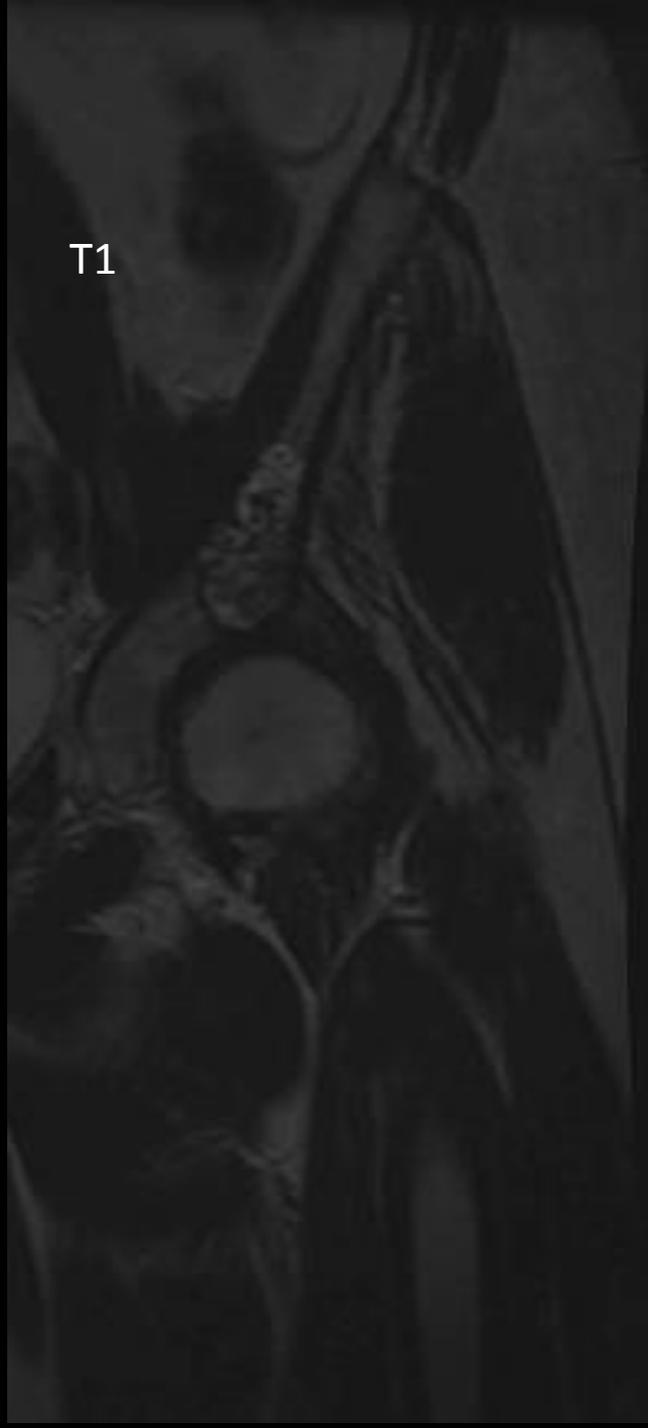


- 63 year old female with hip pain
- PMH: Melanoma

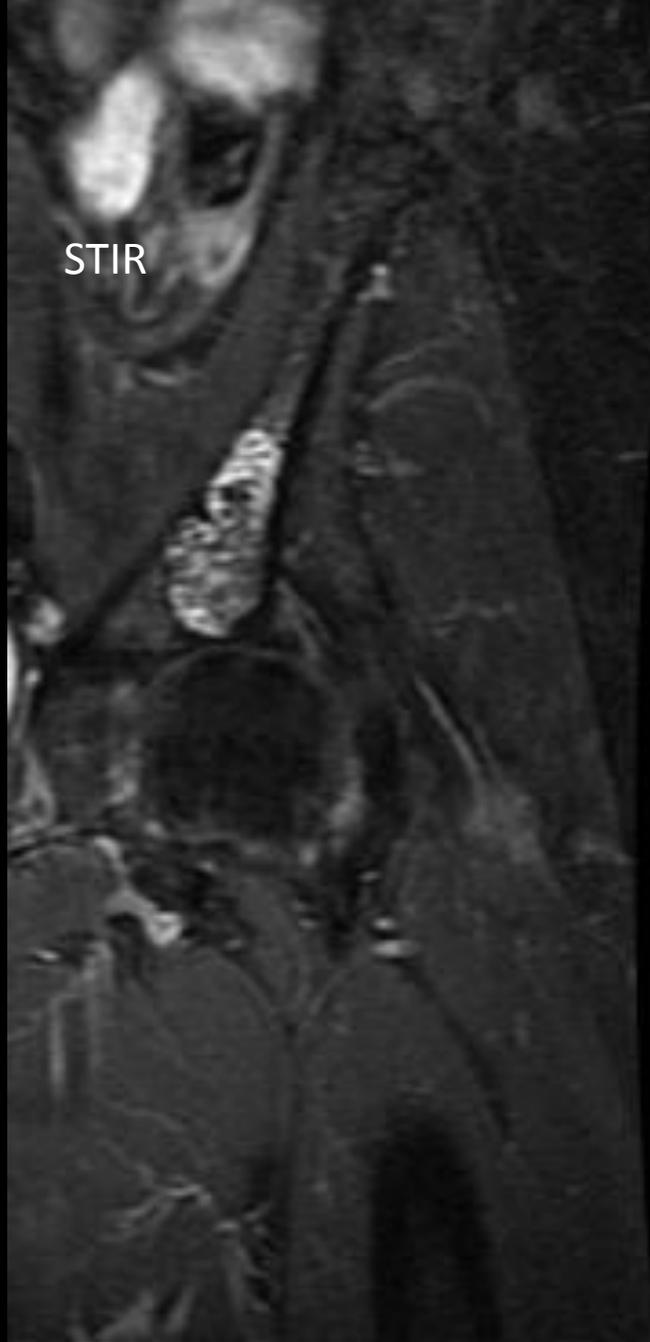


□

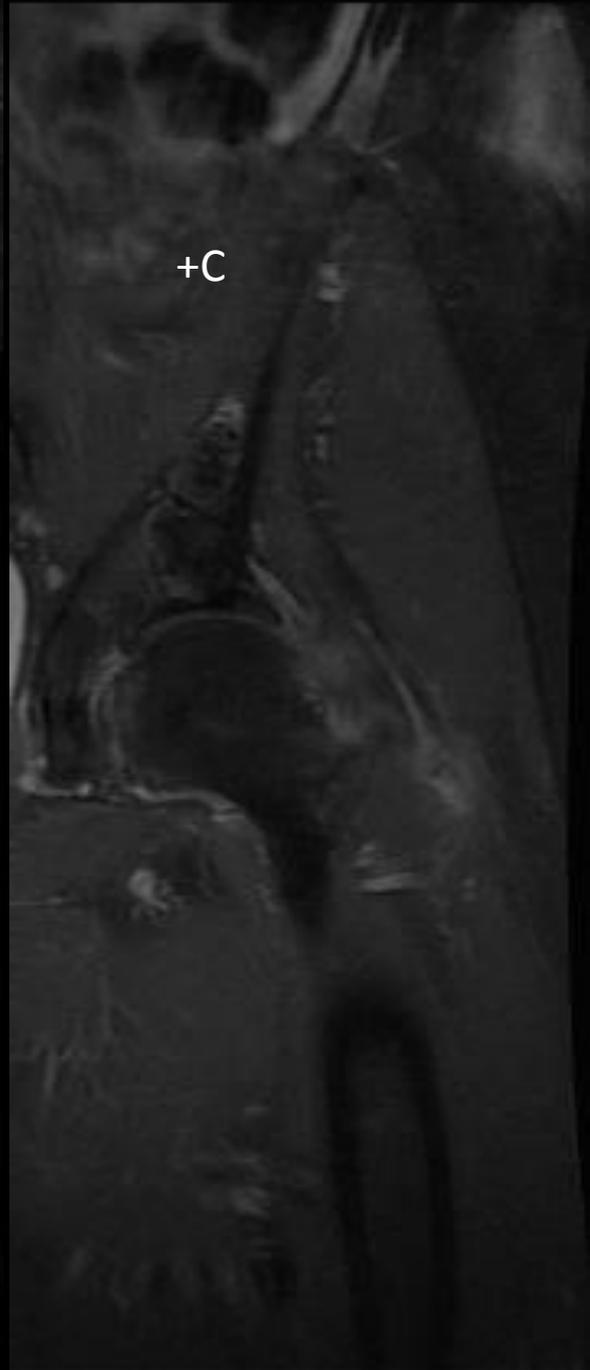
T1

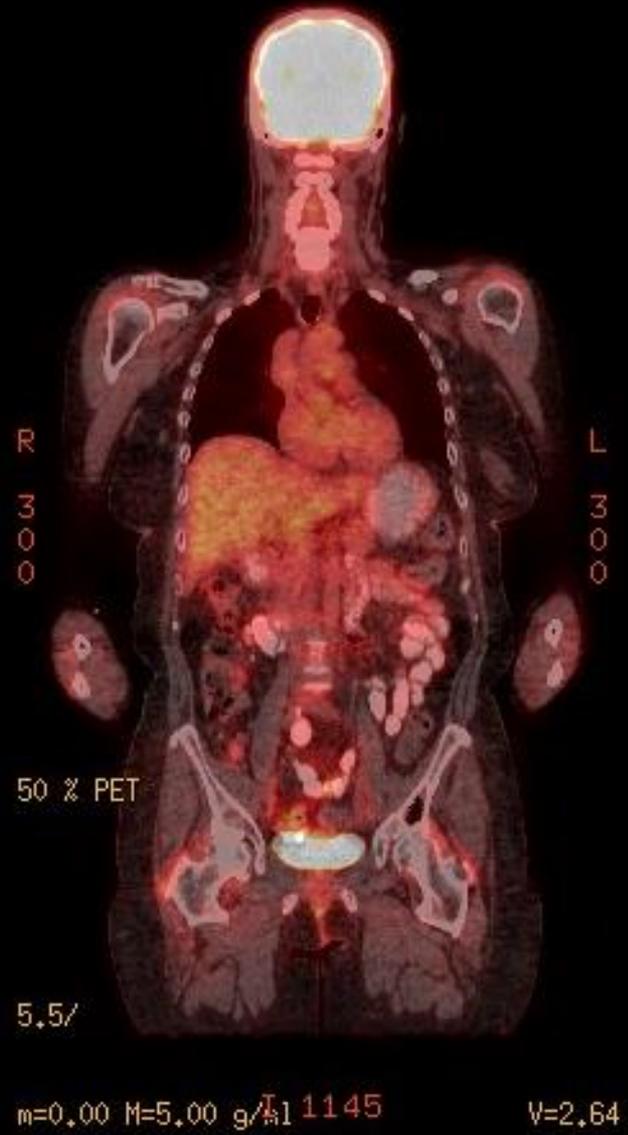
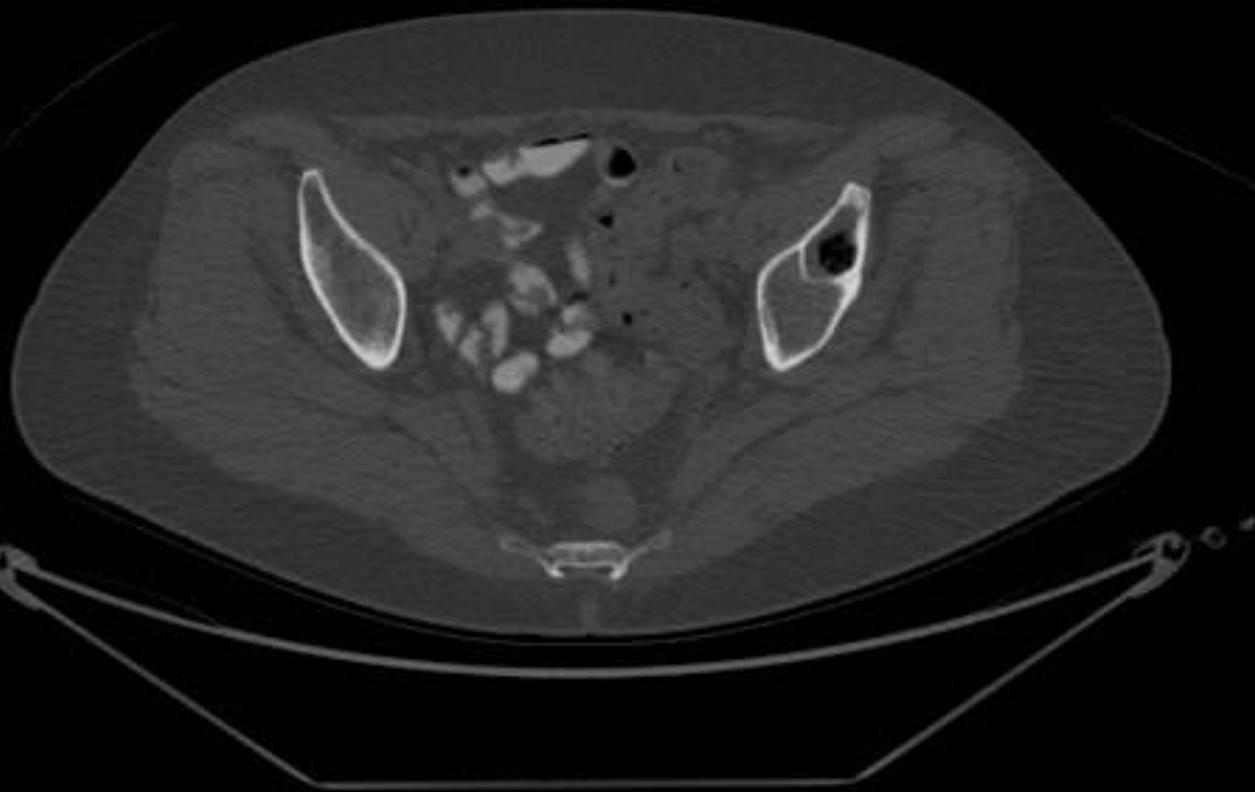


STIR



+C



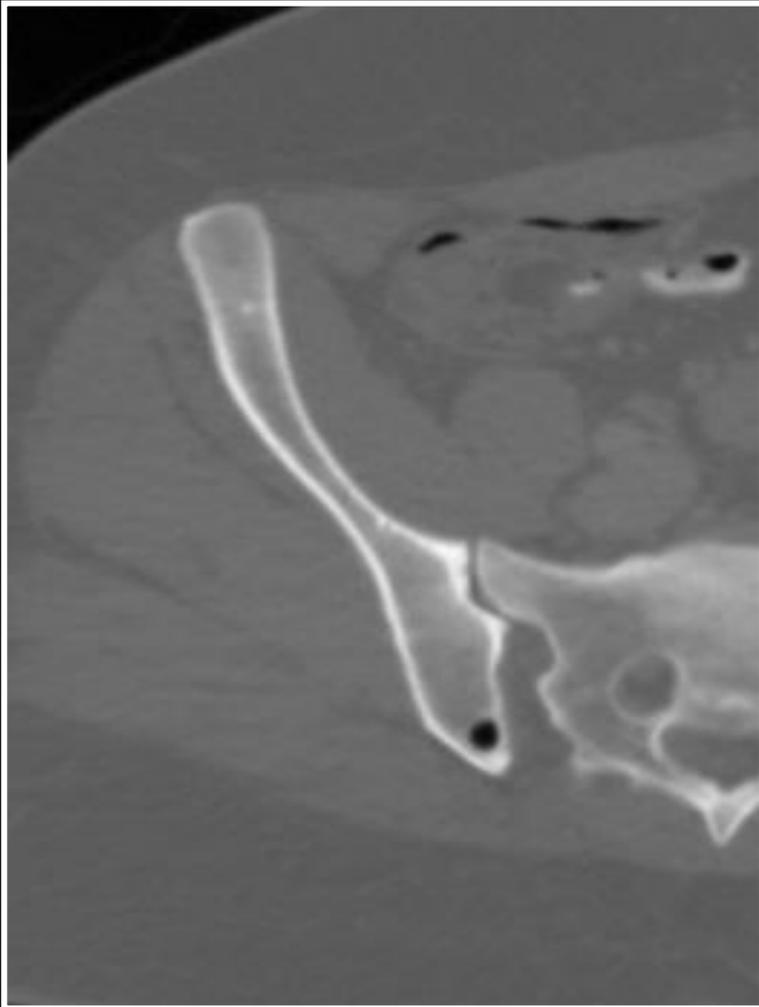


Subchondral cyst (Geode) containing gas

Geodes are seen in a variety of disorders including:

- Degenerative joint disease (DJD)
- Rheumatoid arthritis
- CPPD
- Avascular necrosis

Intraosseous gas



Intraosseous pneumatocyst: benign, no joint communication, most common in SI joint



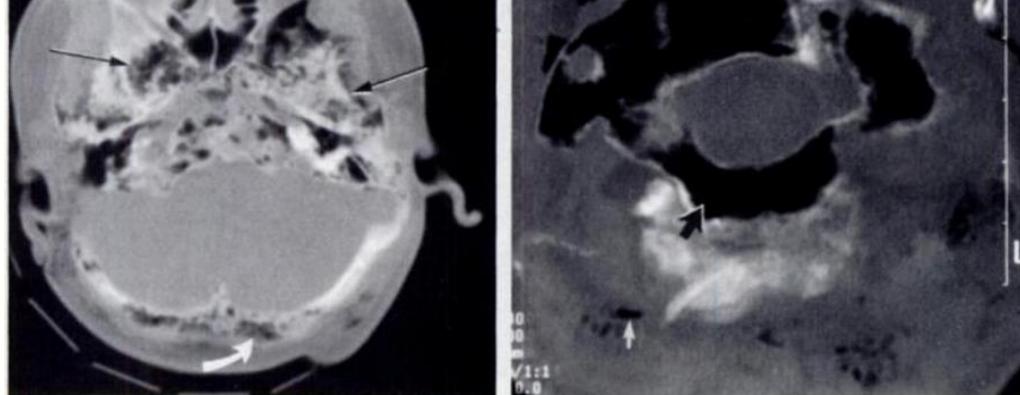
Open fracture



Osteonecrosis

Figure 9:

A 76 year-old with recent lifting injury demonstrating a subacute posttraumatic burst fracture of T12. Sagittal T1- (9a) and T2-weighted (9b) images reveal the presence of a linear area of low signal (red arrow) suggestive of air within the collapsed and edematous vertebral body. This is known as the intervertebral cleft sign of vertebral osteonecrosis.



a.

c.



b.

Figure 1. Patient 1. (a) CT scan of the skull base demonstrates extensive intraosseous gas in the sphenoid bone (straight arrows) and occipital bone (curved arrow). (b) Sagittal MR images (3,000/90 effective [repetition time msec/echo time msec]) of the cervical spine show a mottled appearance to the diploë consistent with pneumatosis (open arrow). Abnormal signal intensity is also seen in the axis and C-5 and C-6 vertebral bodies (solid arrows). (c) CT scan of the C-2 vertebral body obtained 3 months later shows complete replacement of the bone marrow cavity with intraosseous gas. The body, posterior elements (large arrow), and transverse processes are involved with lymphangiomas. Subcutaneous gas is noted (small arrows).

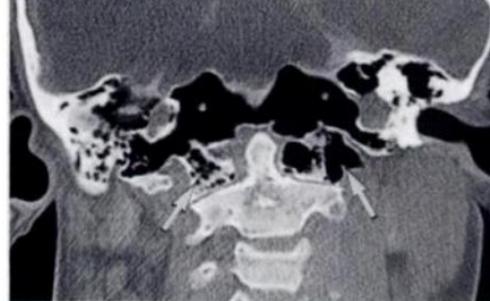


Figure 2. Patient 2. CT scan obtained 5 months after surgery demonstrates extensive pneumatization of the skull base and atlas (arrows).

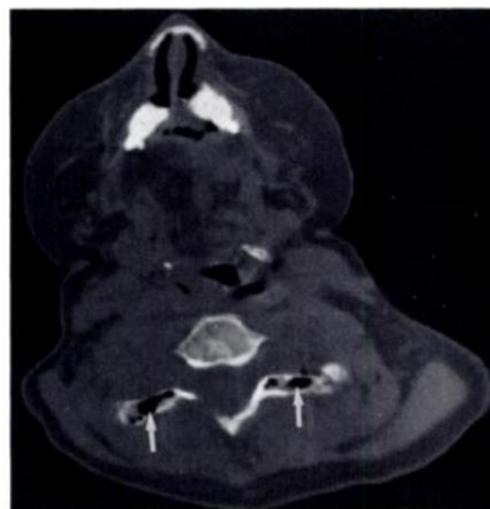


Figure 3. Patient 3. CT scan obtained through the upper thorax confirms intraosseous gas in the transverse processes of T-1 (arrows) that was also seen on radiographs.

DISCUSSION

Lymphangiomas of bone is an uncommon skeletal disorder. This disease may show a benign course in some patients and cause serious morbidity in

Bone lymphangiomas



**Necrotizing soft tissue
infection-Emphysemato
osteomyelitis**