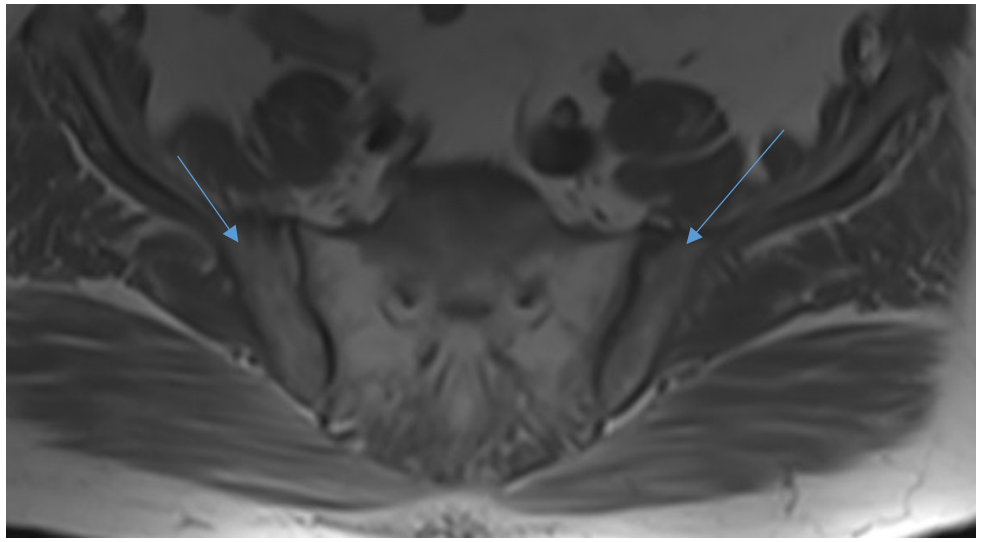
81 yo male.
-Clinical Details: Left hip pain. ? Paget's disease, isolated raised Alkaline phosphotase, for bone scan
-Specific Question to be Answered: Paget's disease
-Past history of hx of mantle lymphoma *(nothing in our system)*

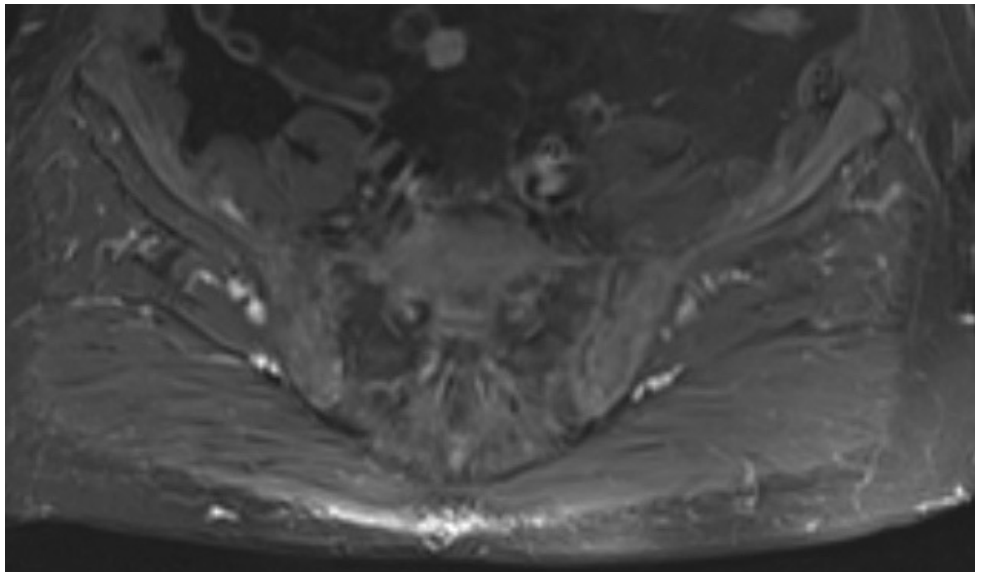
MRI Pelvis and Thighs
Axial and Cor T1 and STIRS
Slice: 6mm
Dist: 7.5mm

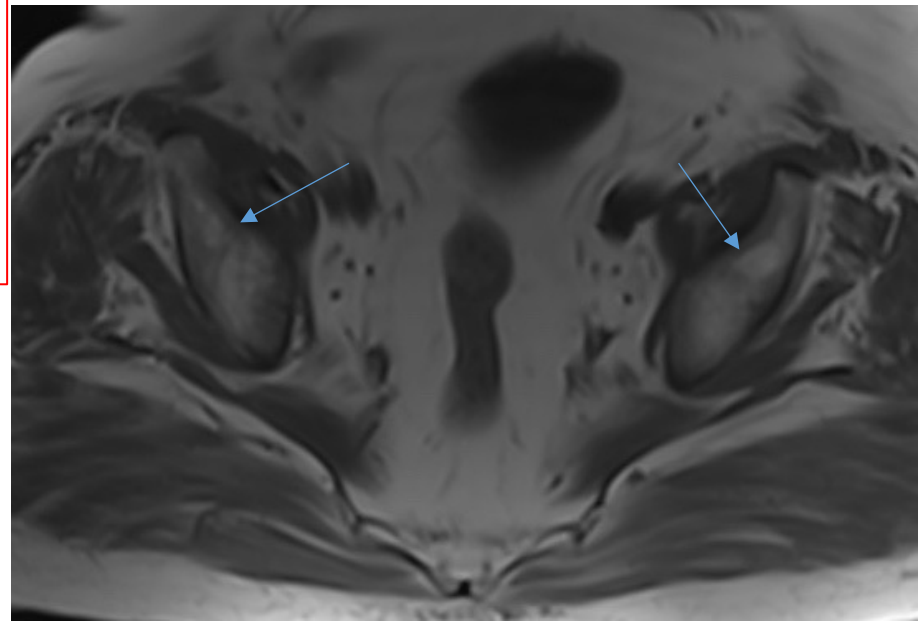
What are those subcortical areas of intermediate signal in the pelvic bones, sparing the sacrum and femoral heads?

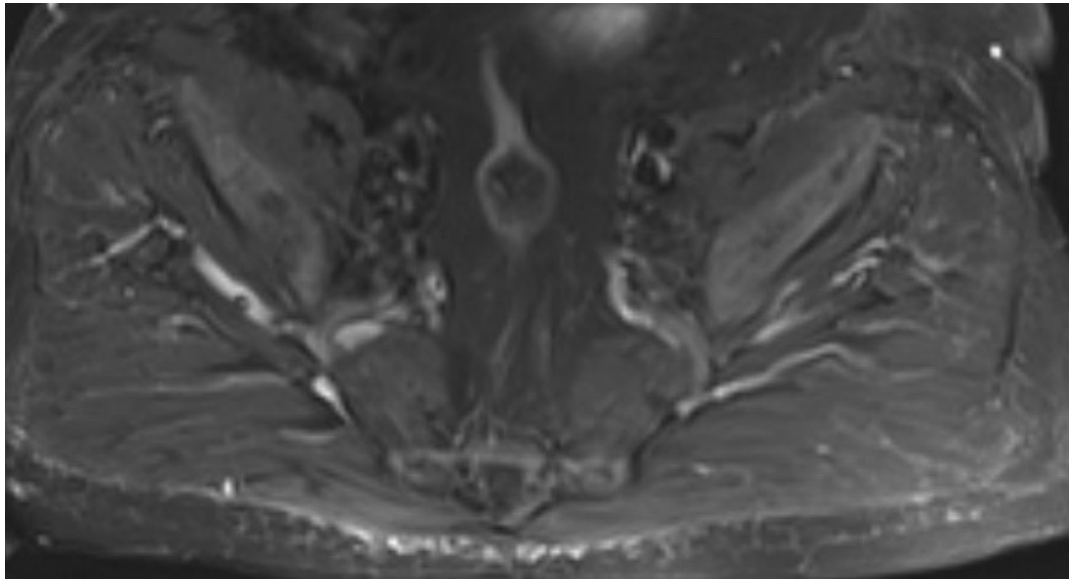
Is it just red marrow? Or something else?

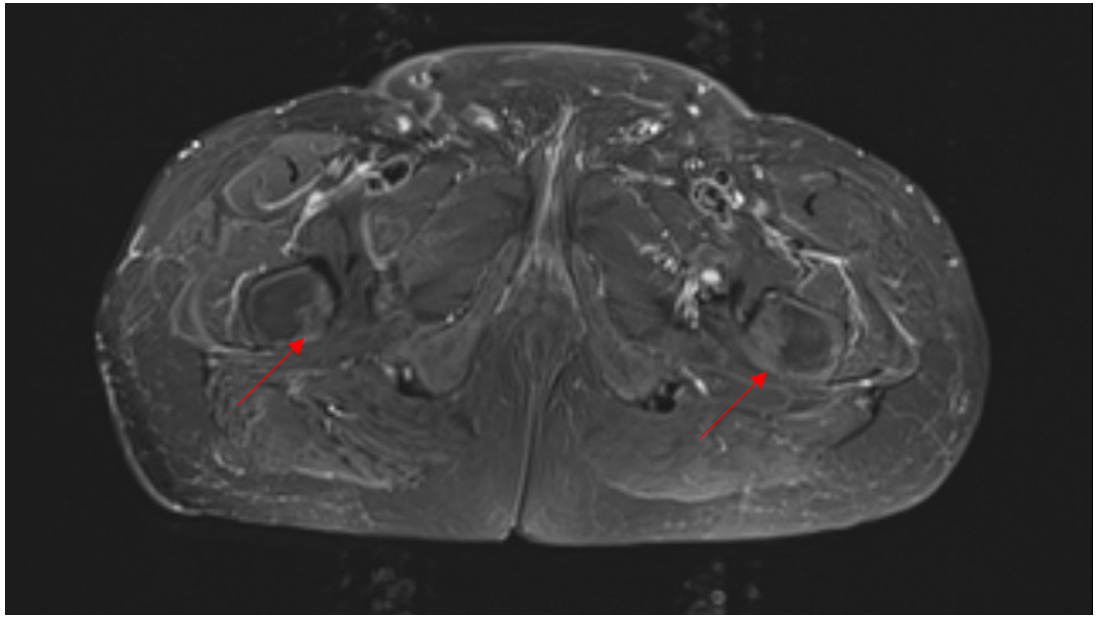
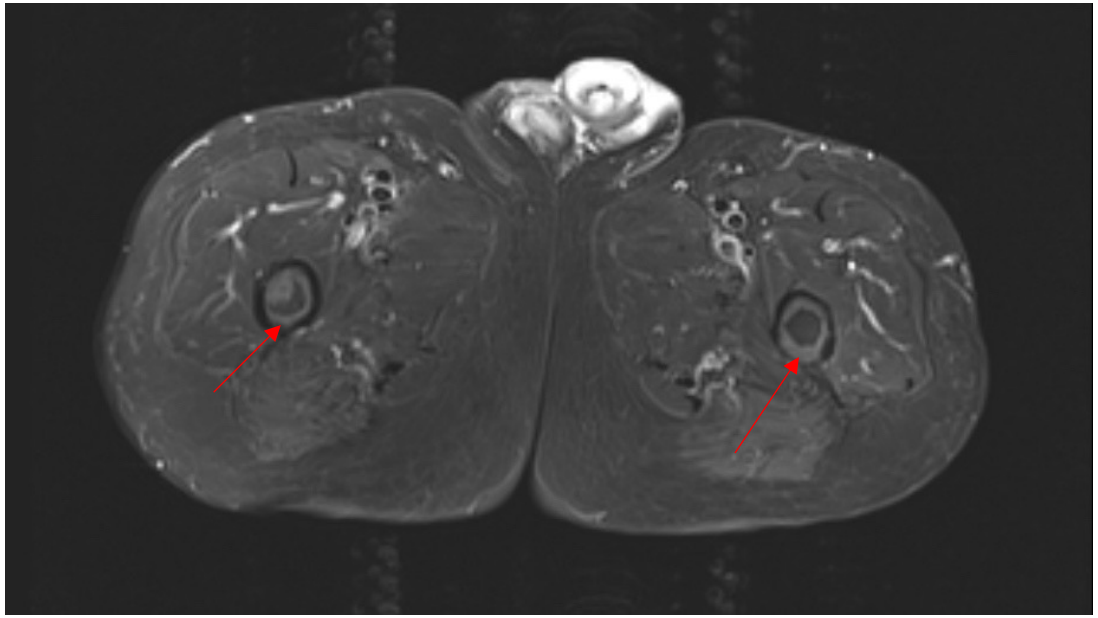
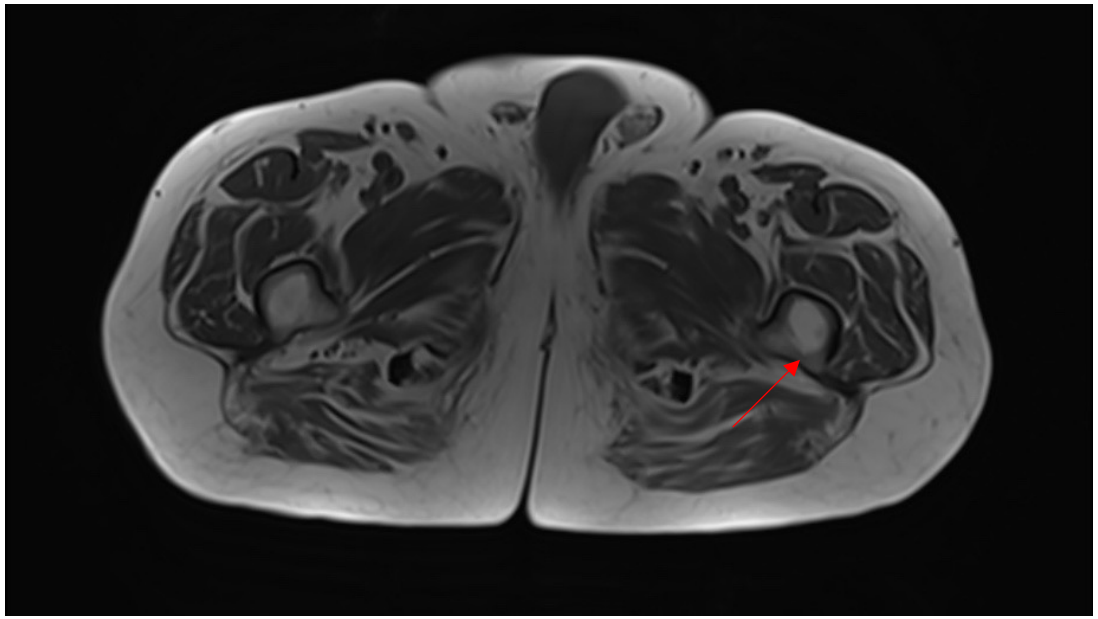
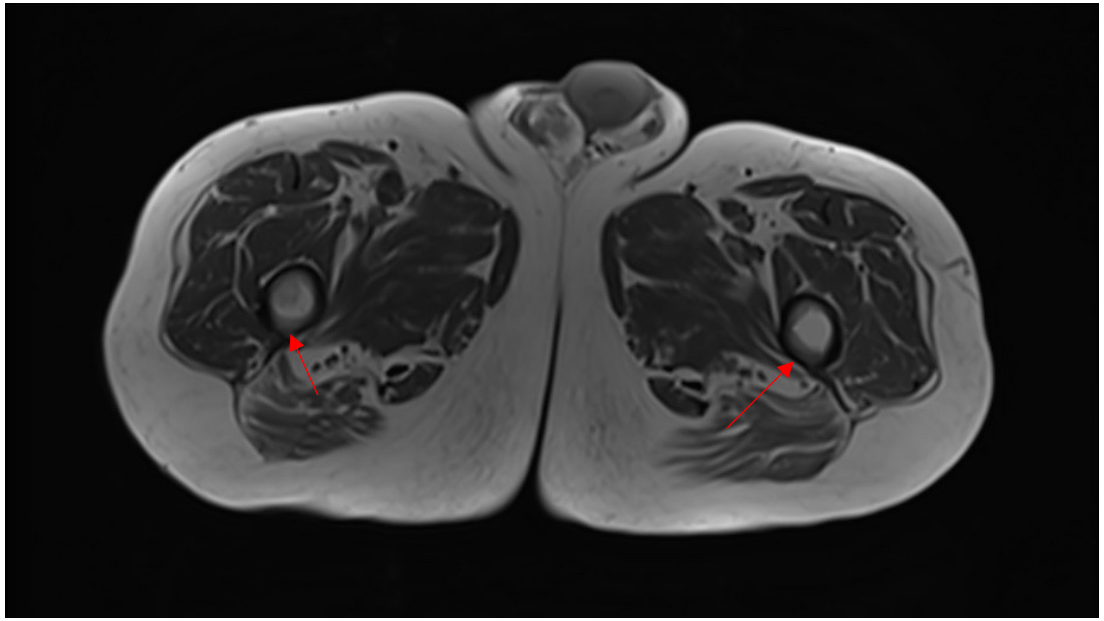
In the STIR, the iliac bones involvement looks more diffuse





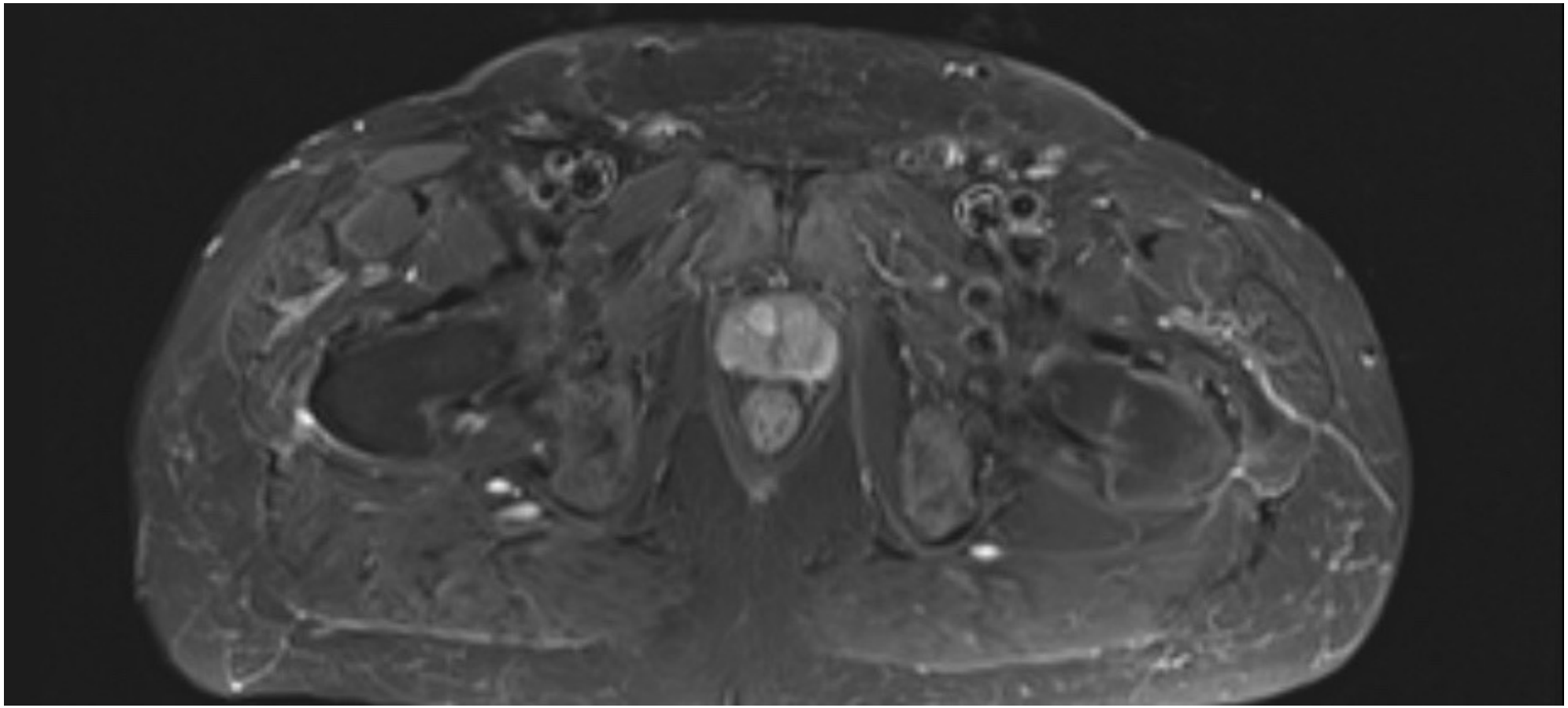




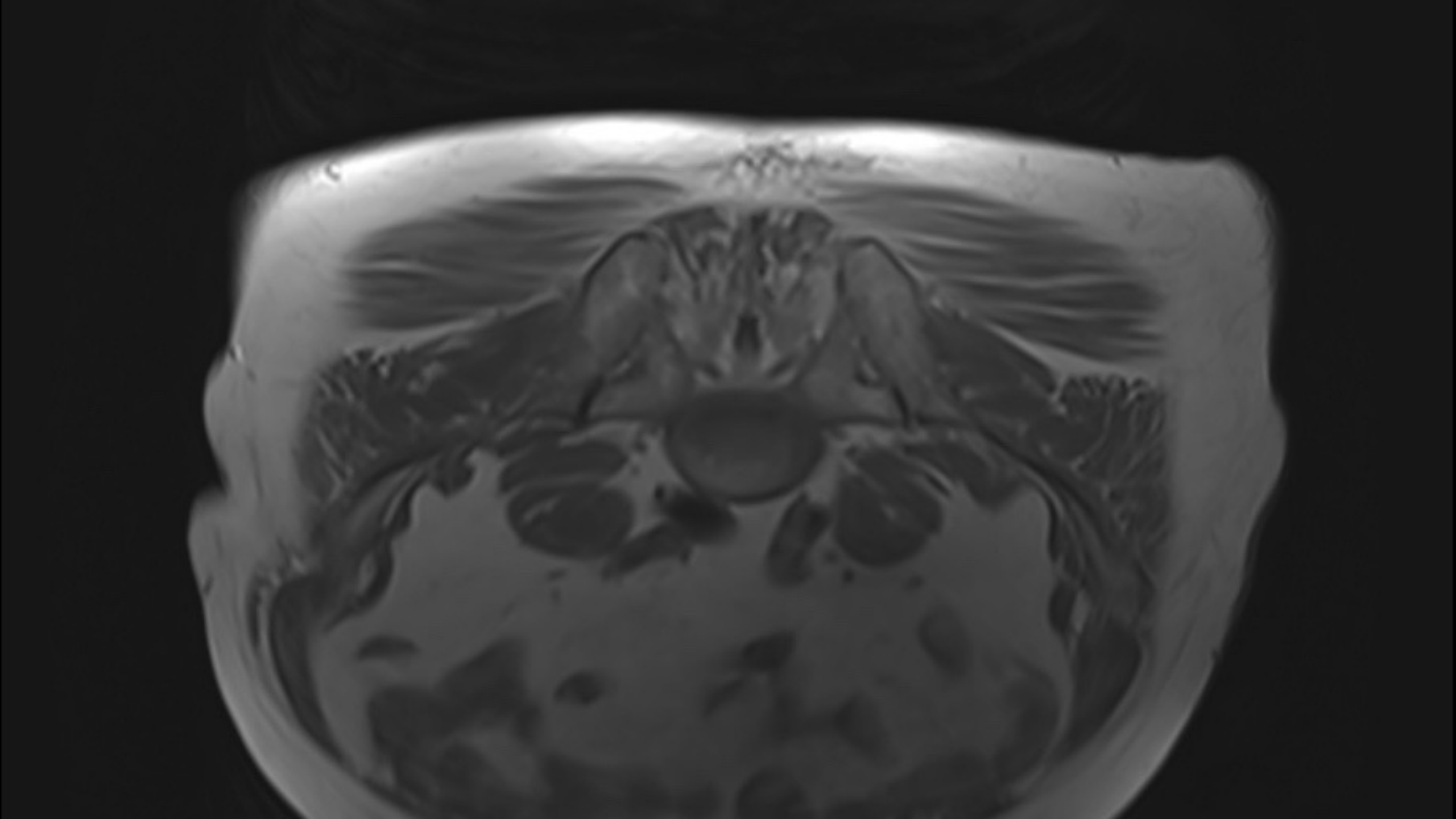
Subcortical circumpherential areas of intermediate signal (L>R)

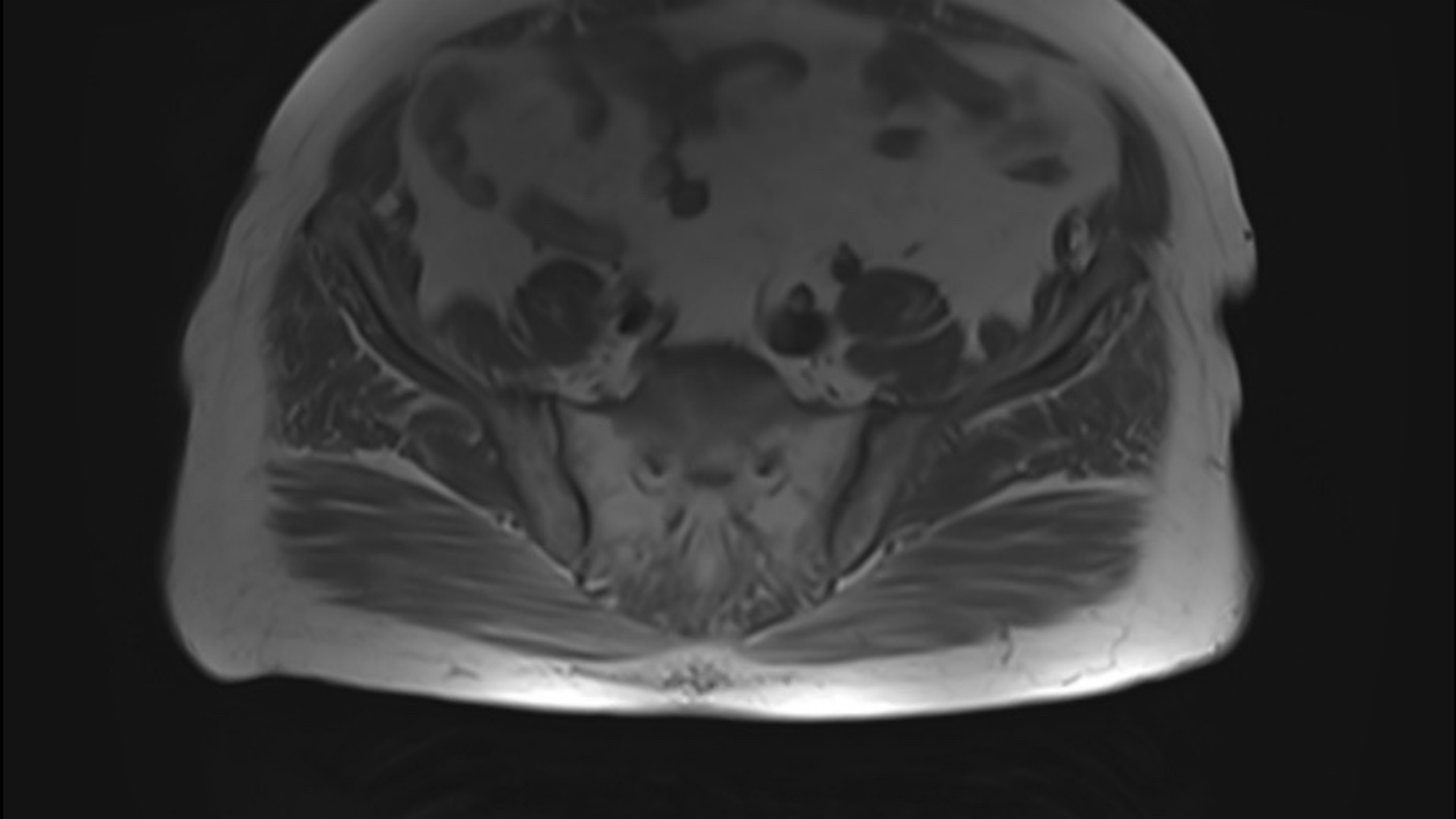
Here, the diff betw the pelvic bones signal and femoral necks is very striking (particularly the Rt)

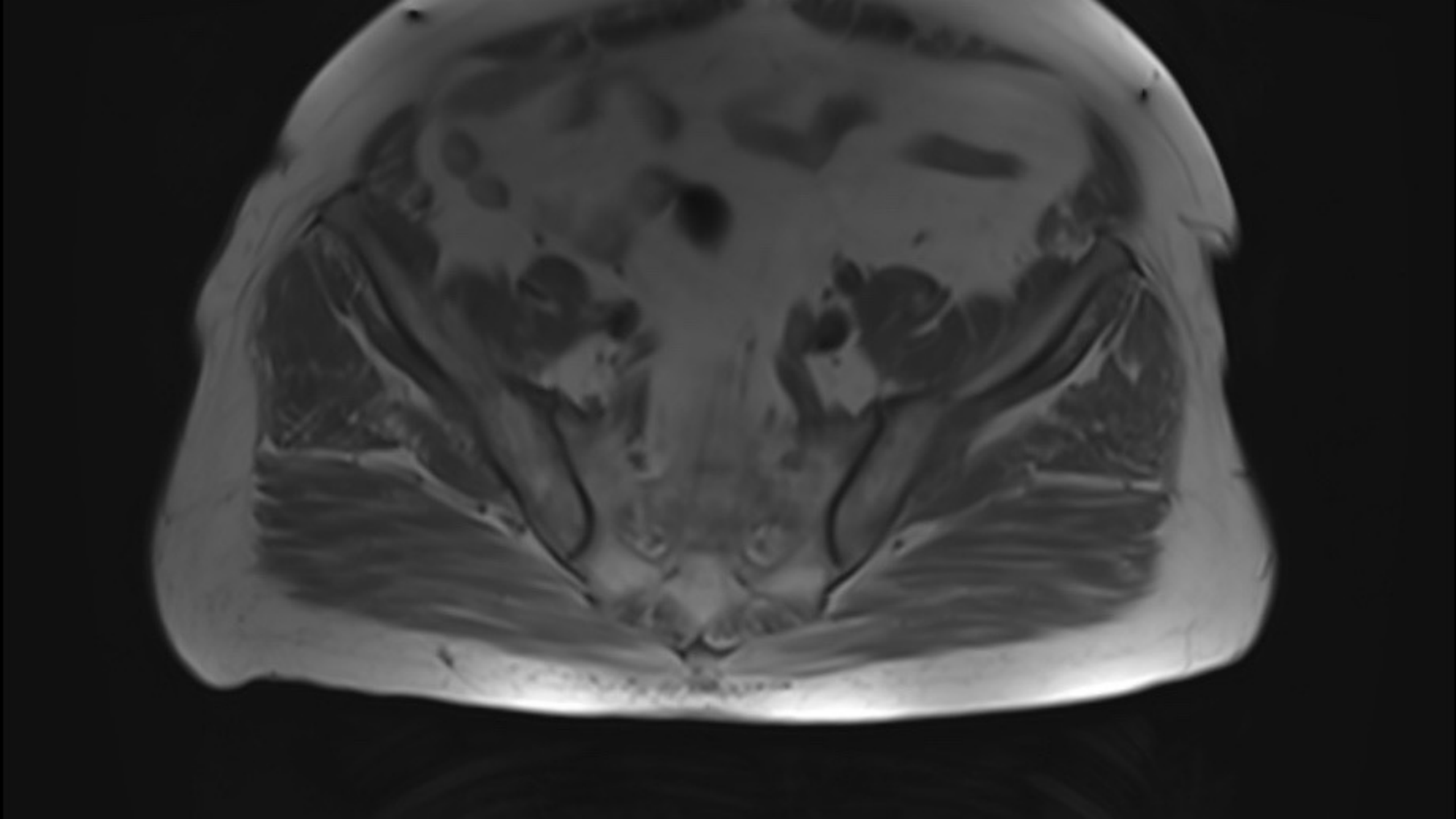


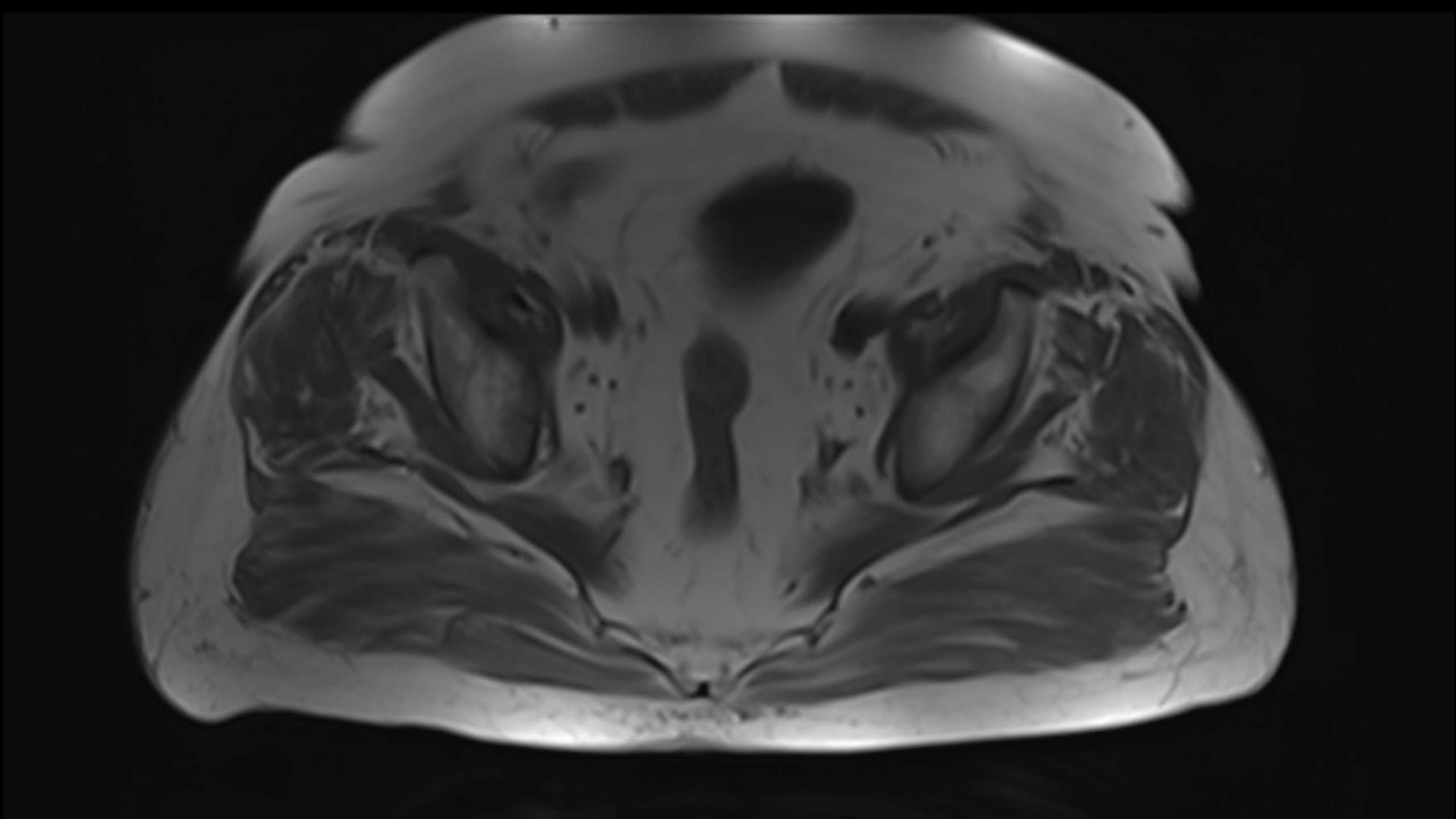
- At first, I thought it was just red marrow
- But then correlating with the other studies and the more I look, I think there is something going on but I am unsure of the signifcance of these MRI findings

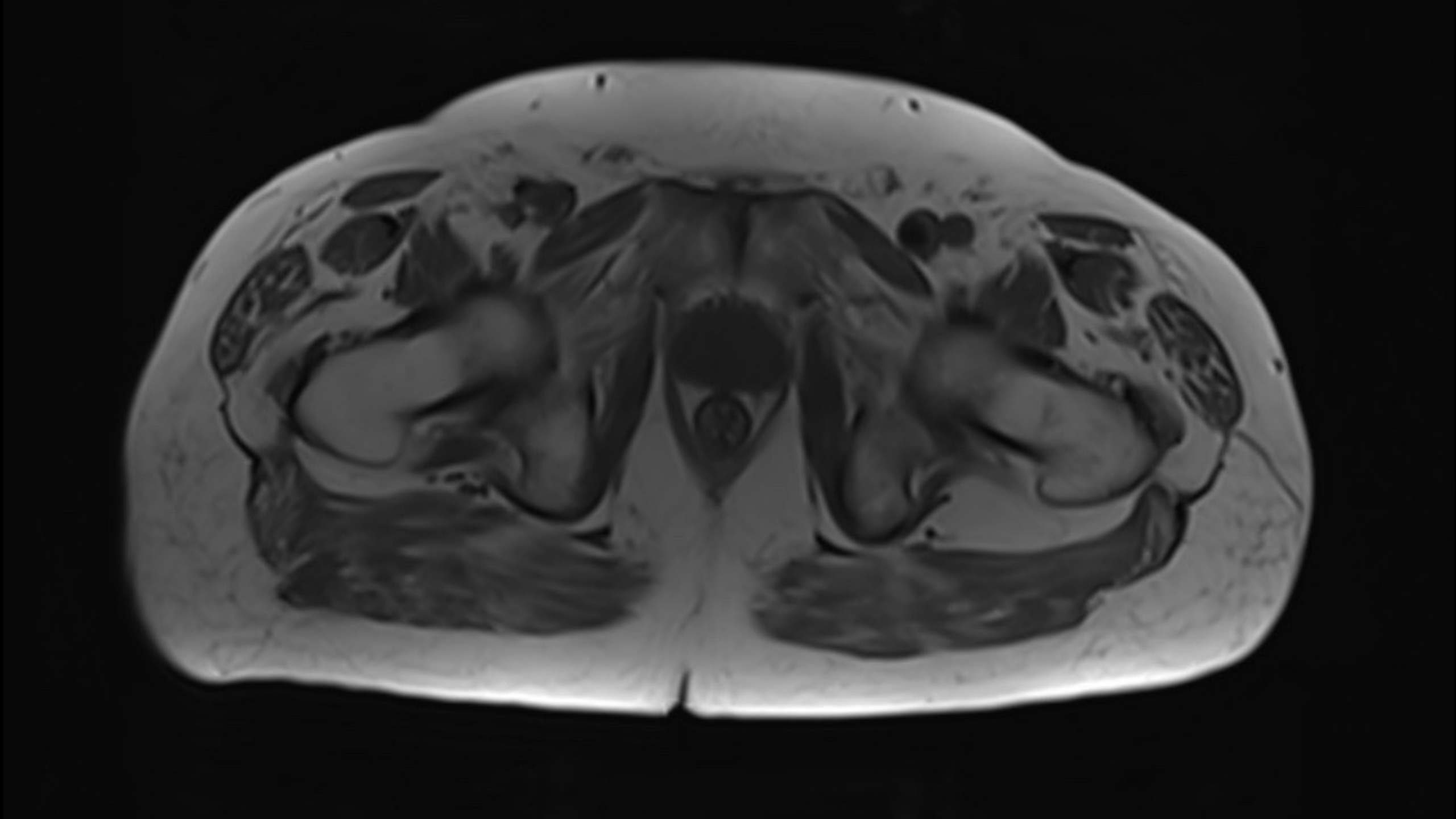
Some selected MRI images

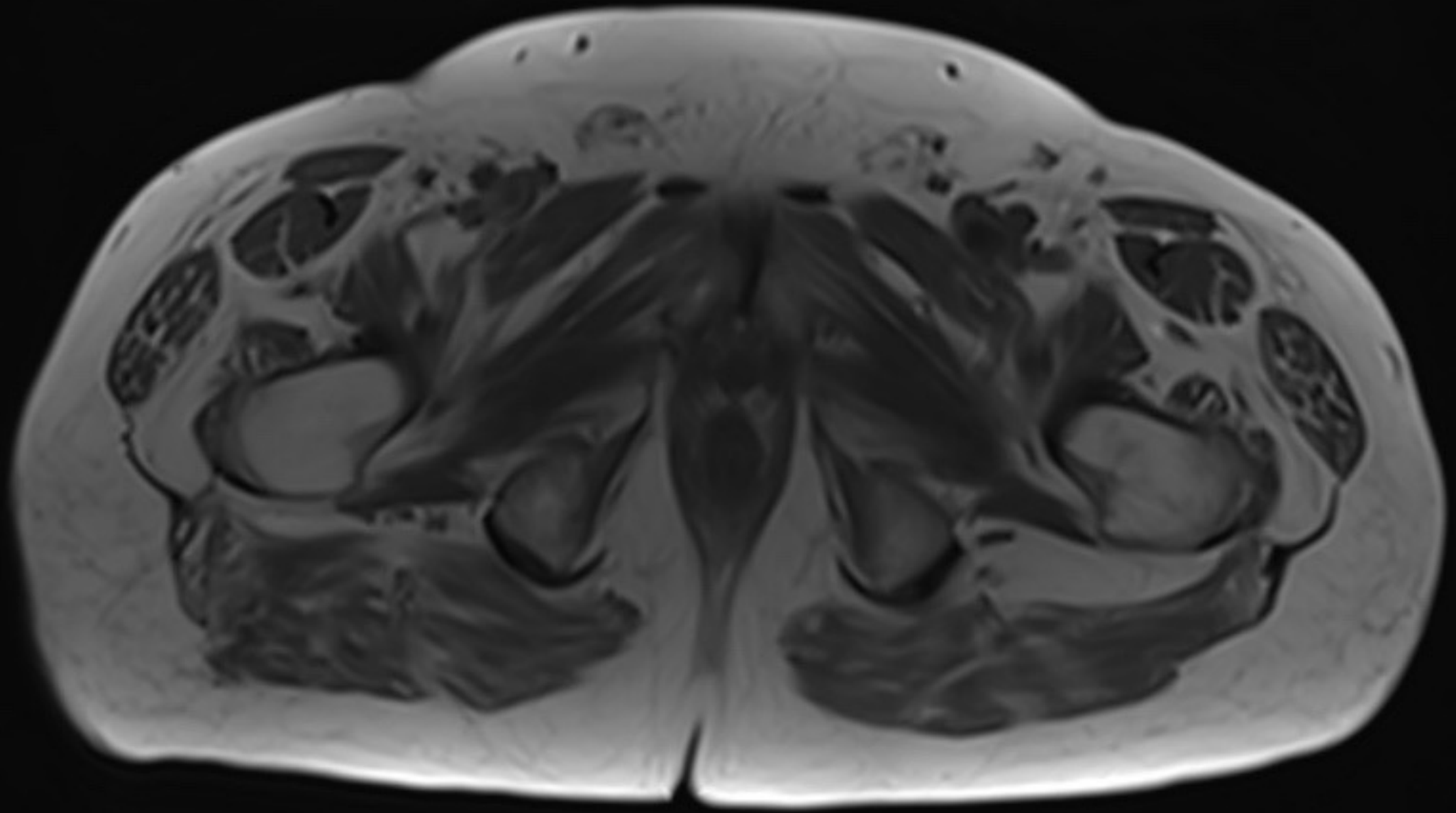


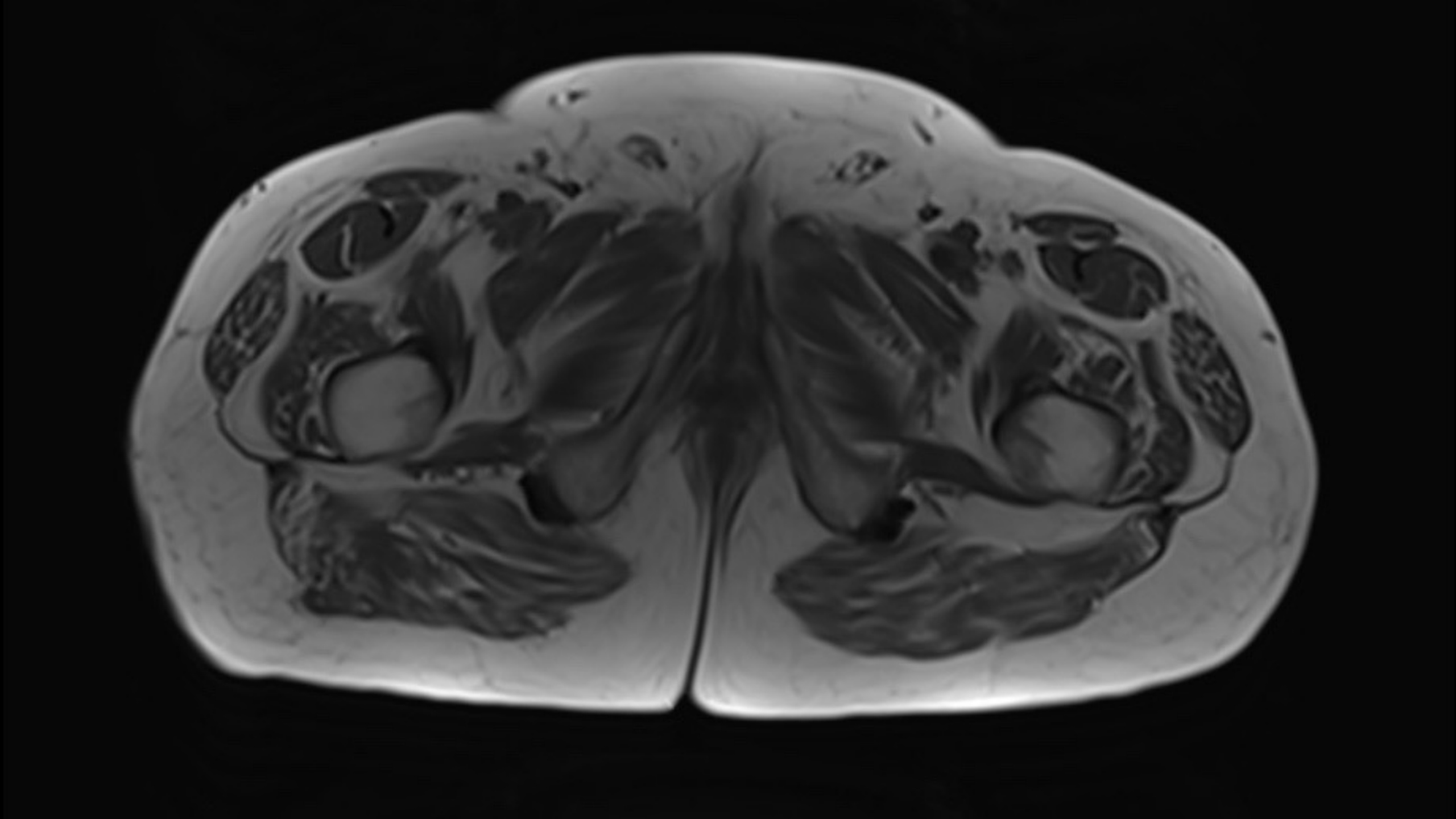


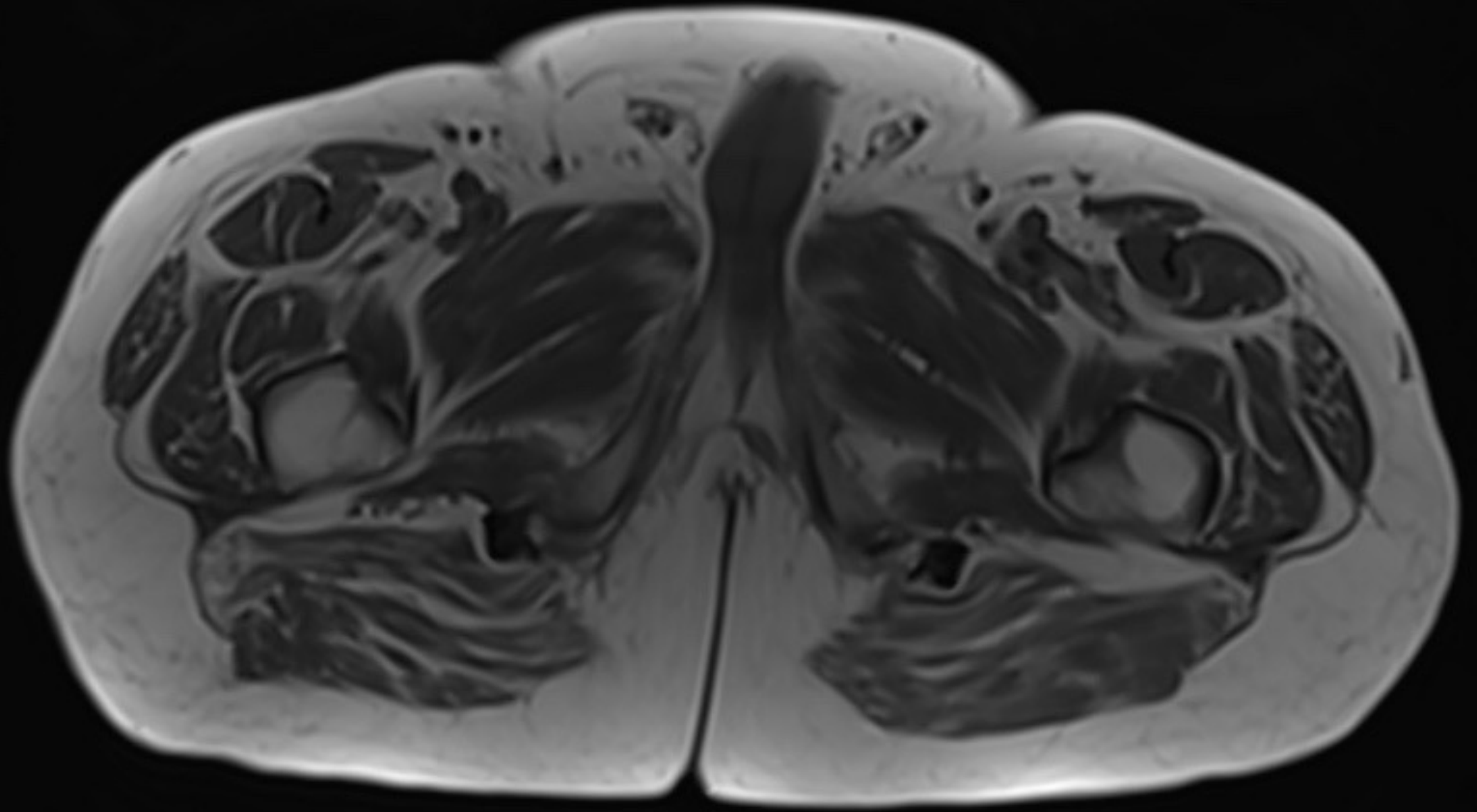


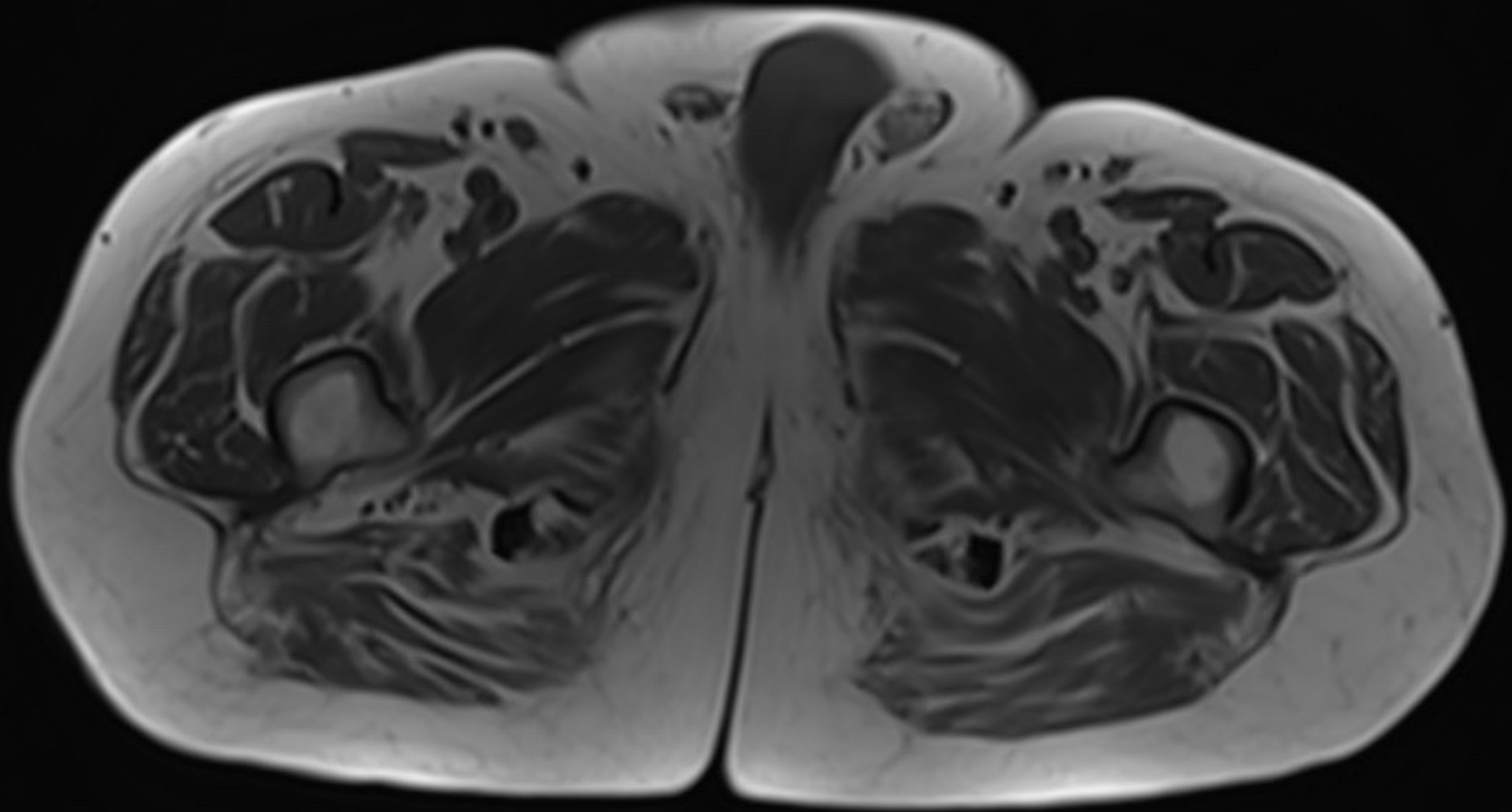


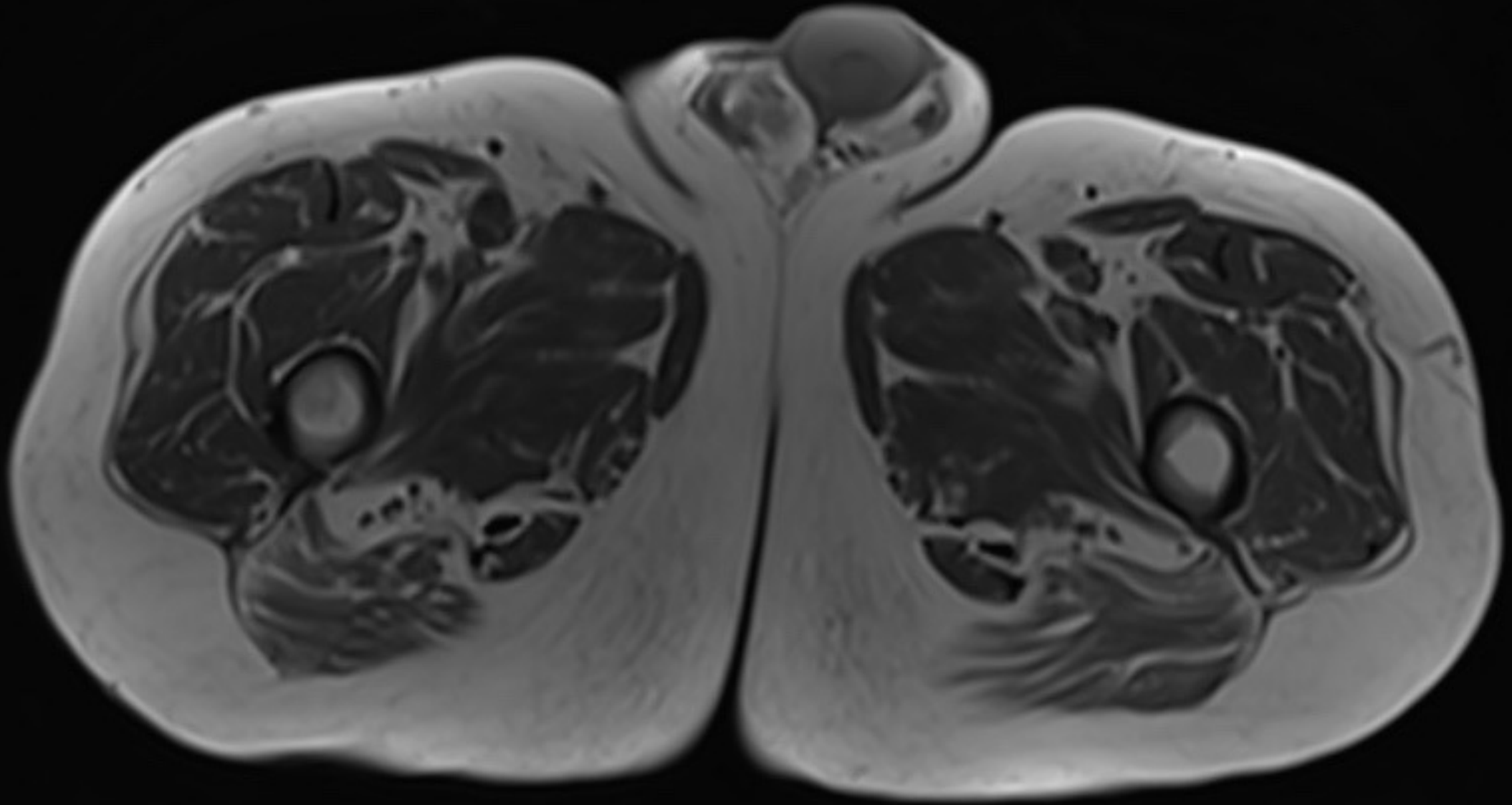


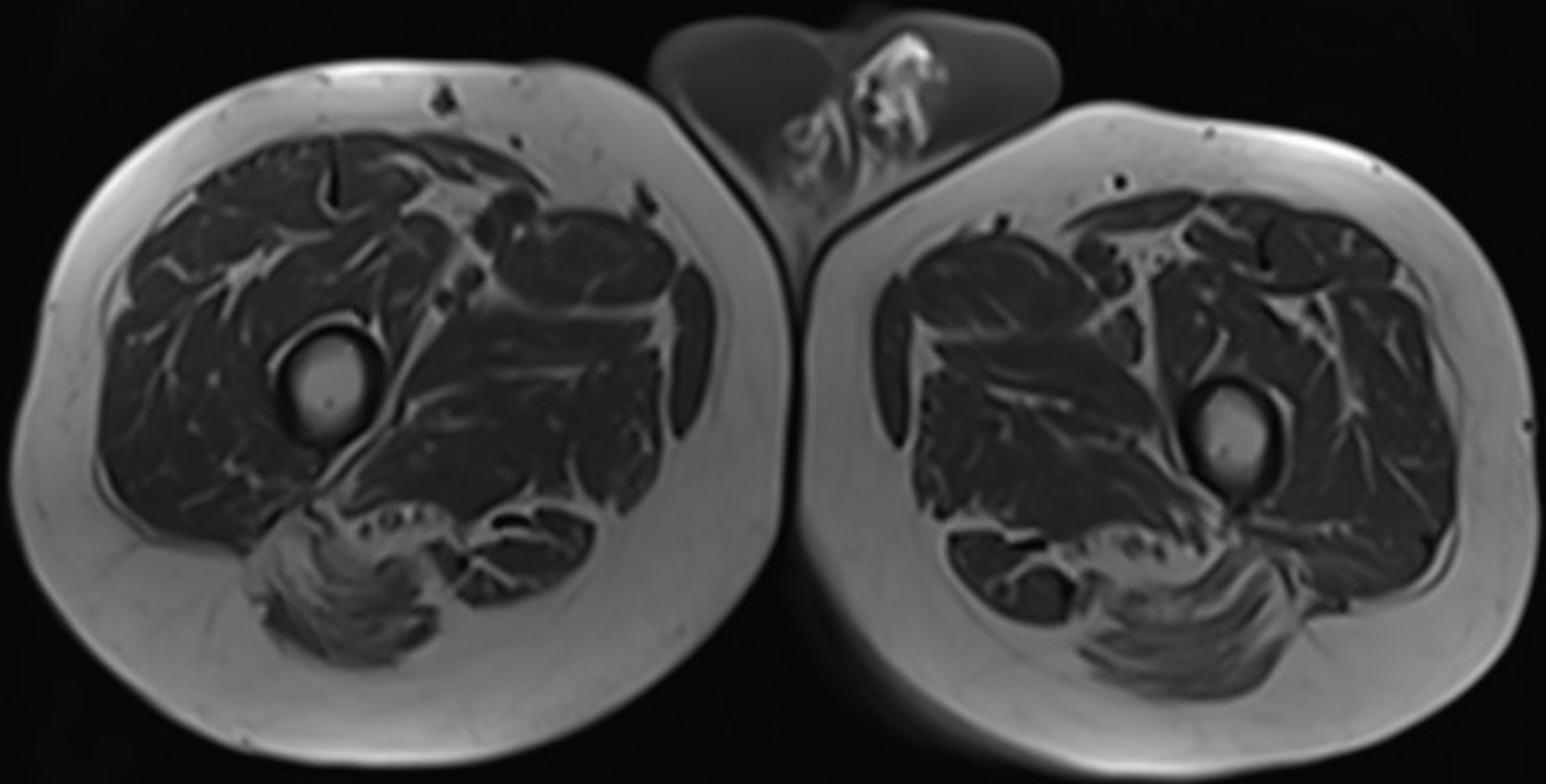


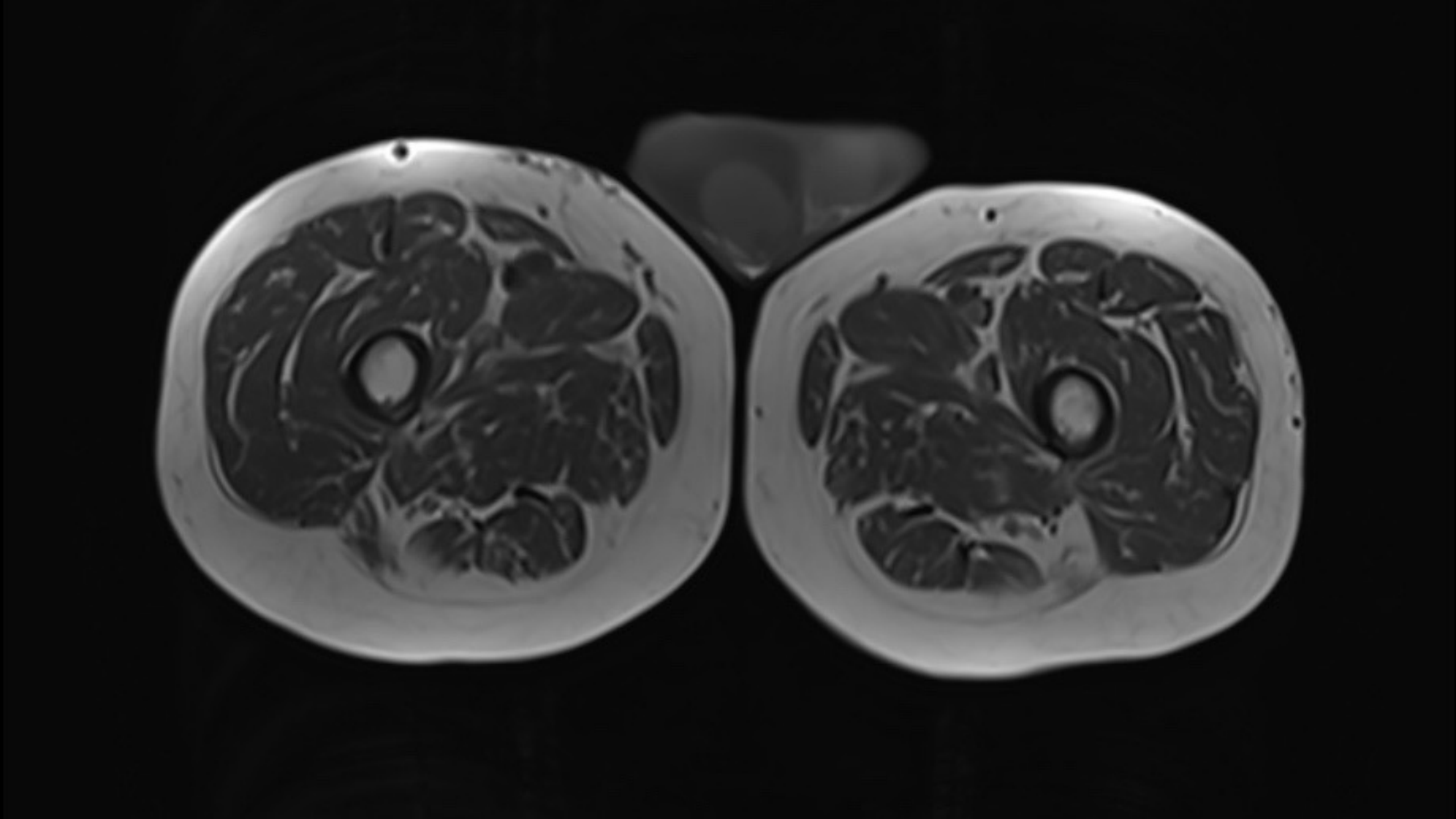


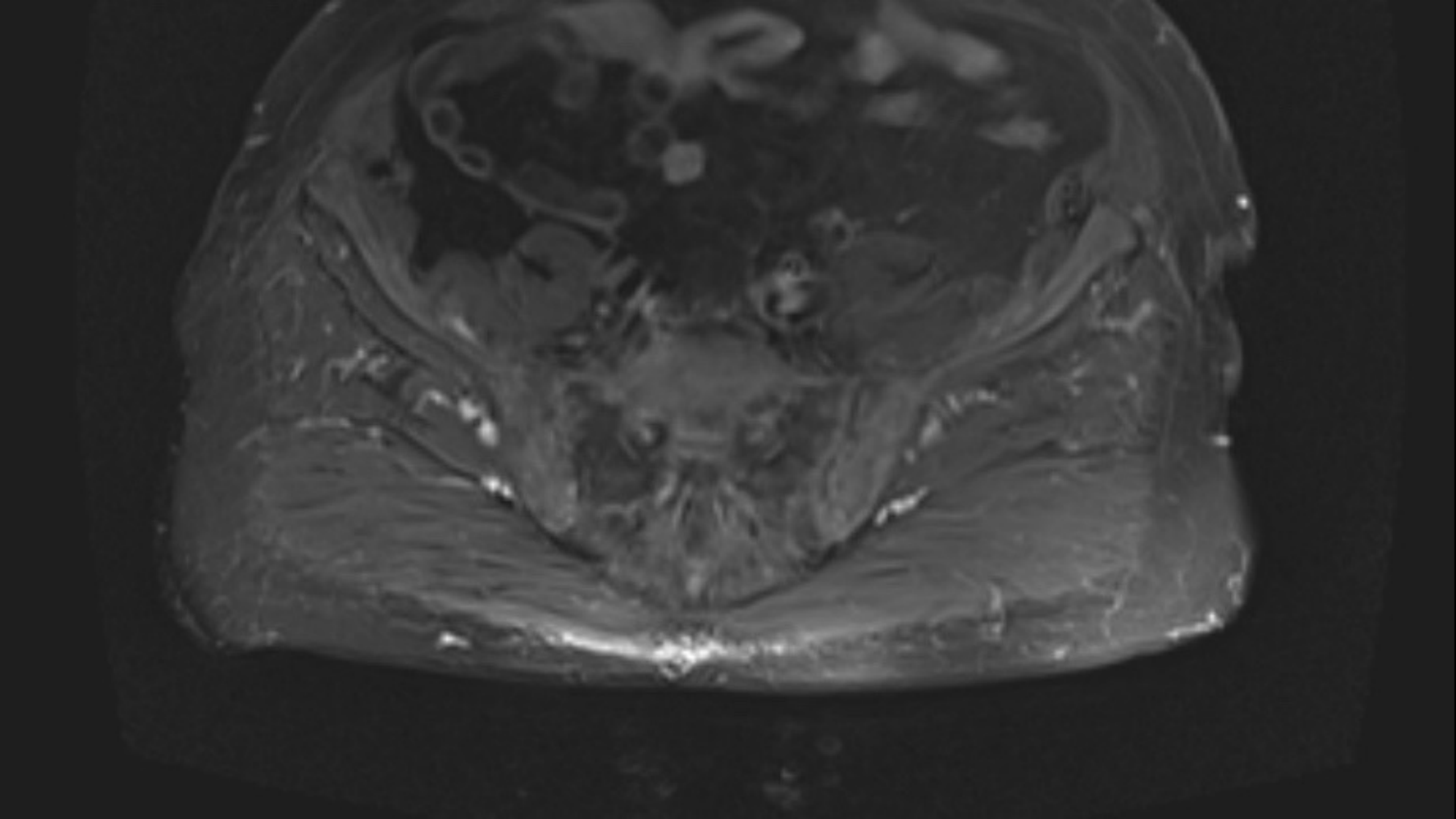


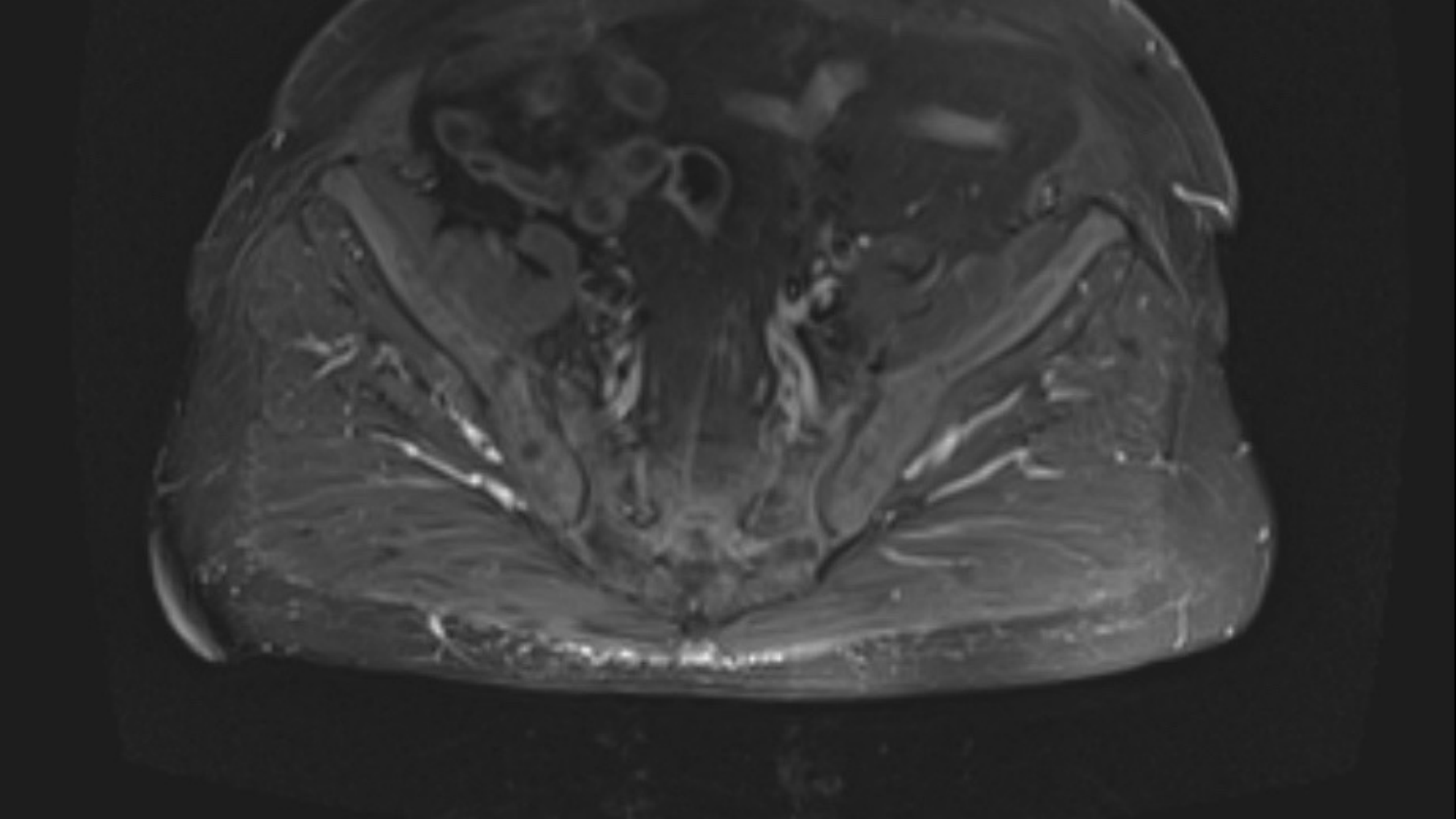


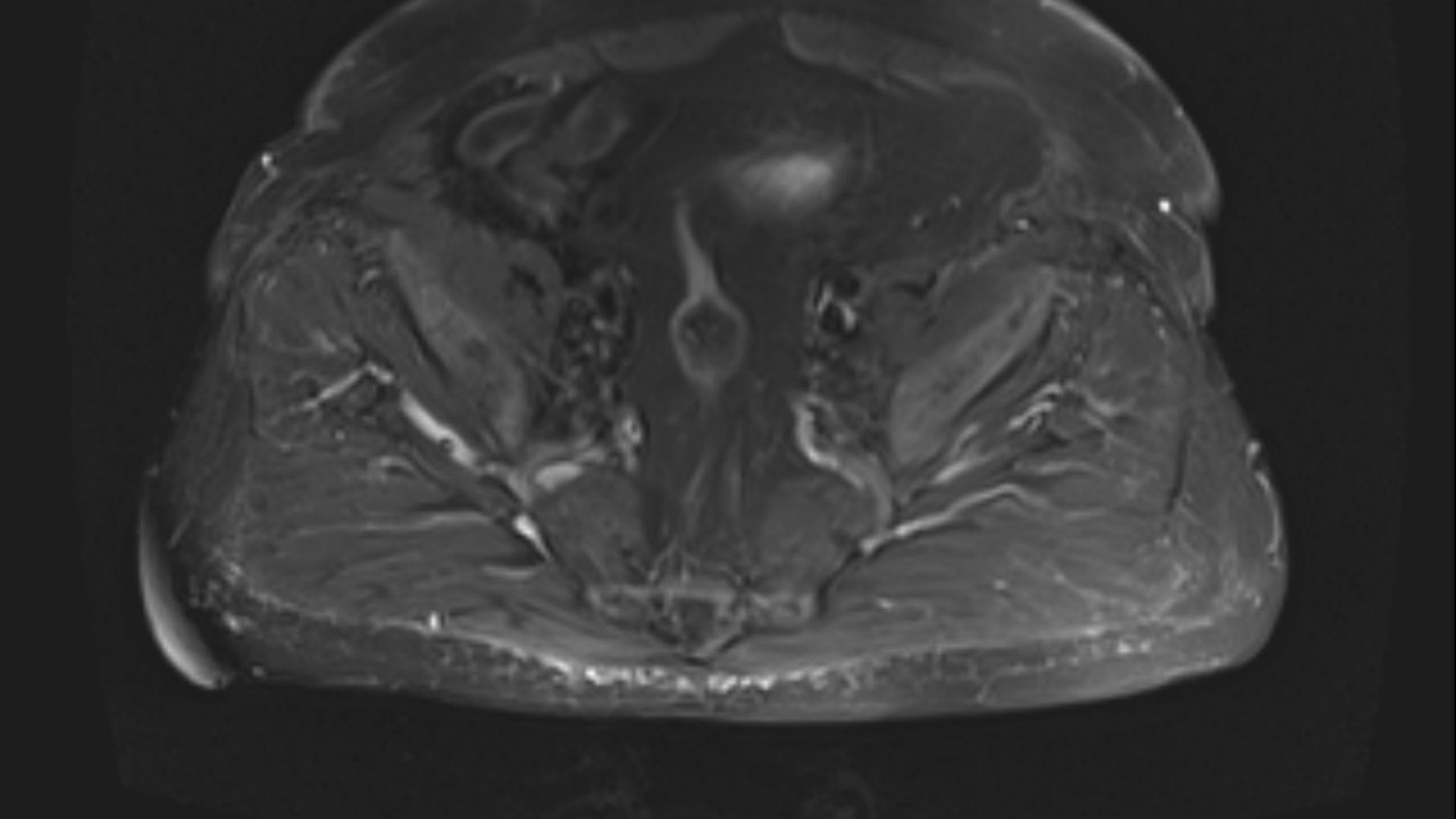


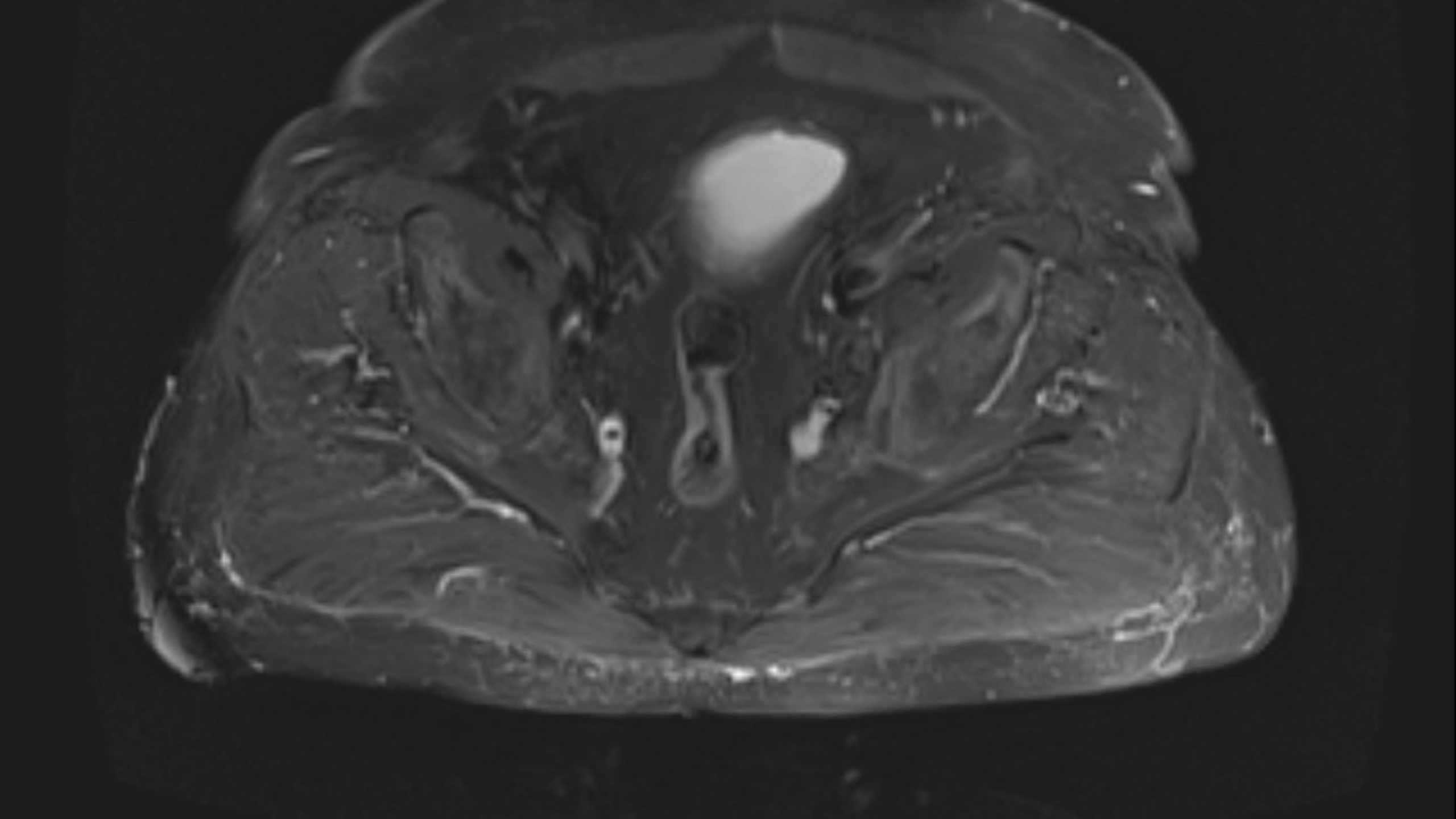


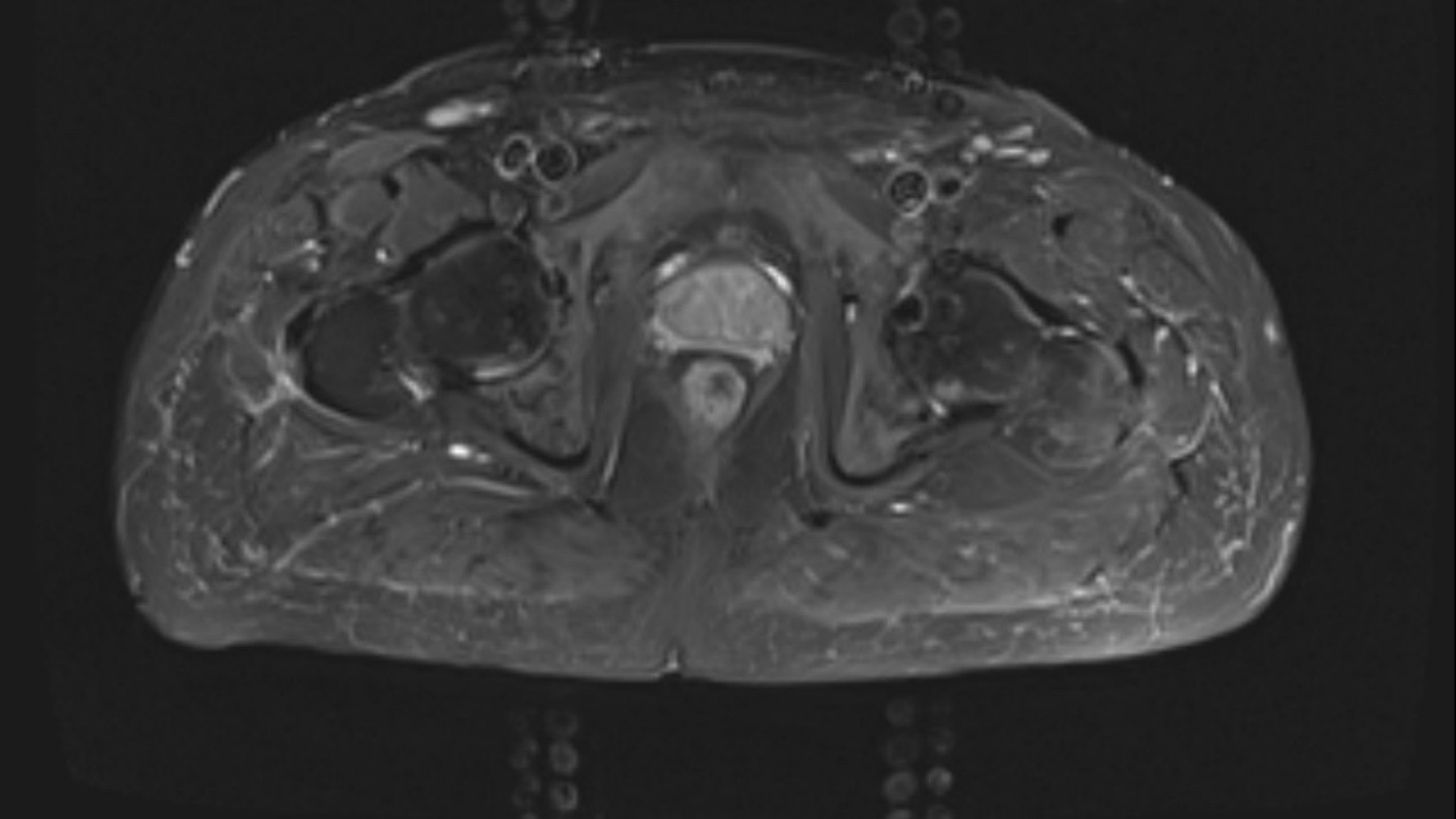


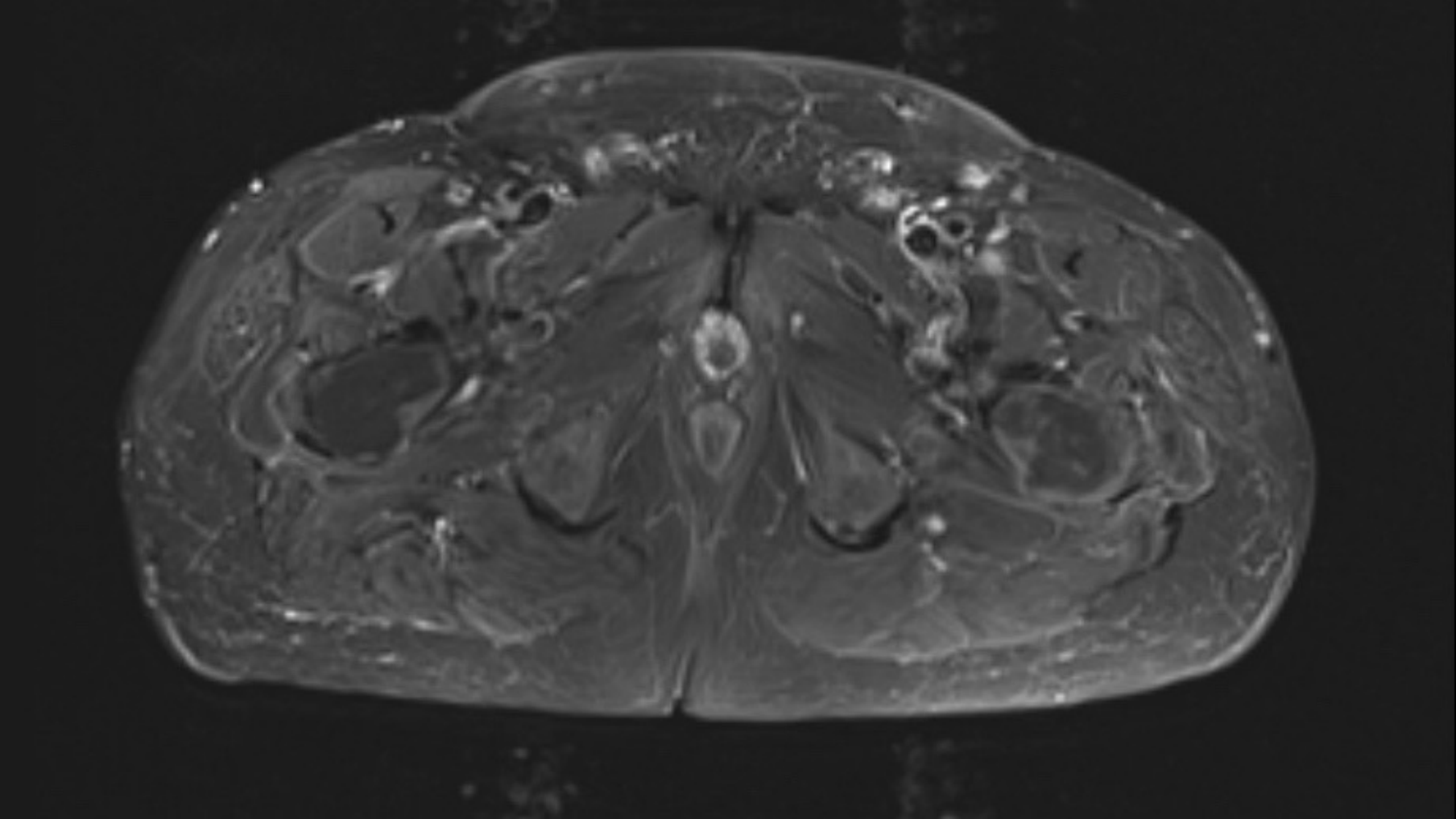


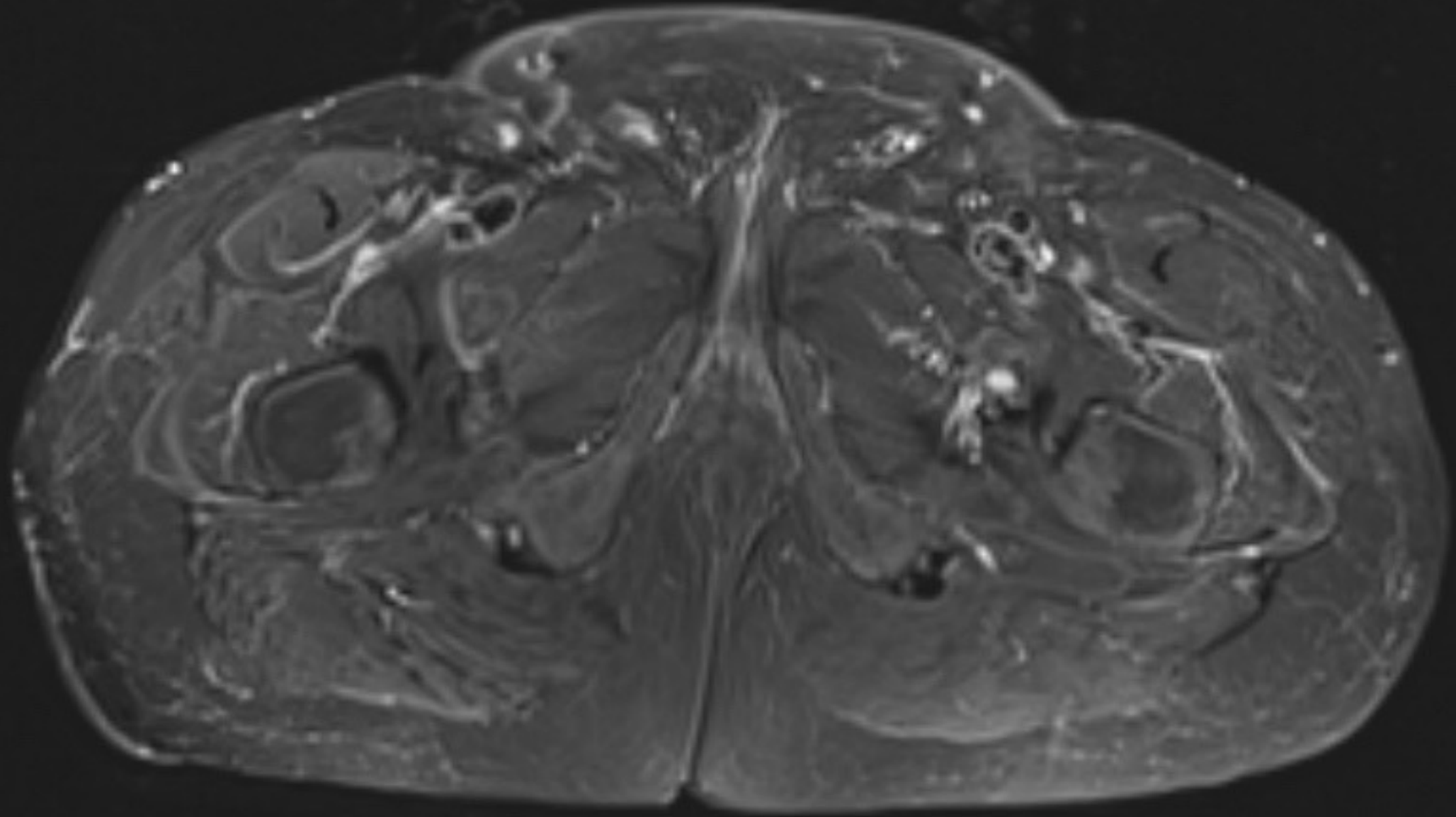


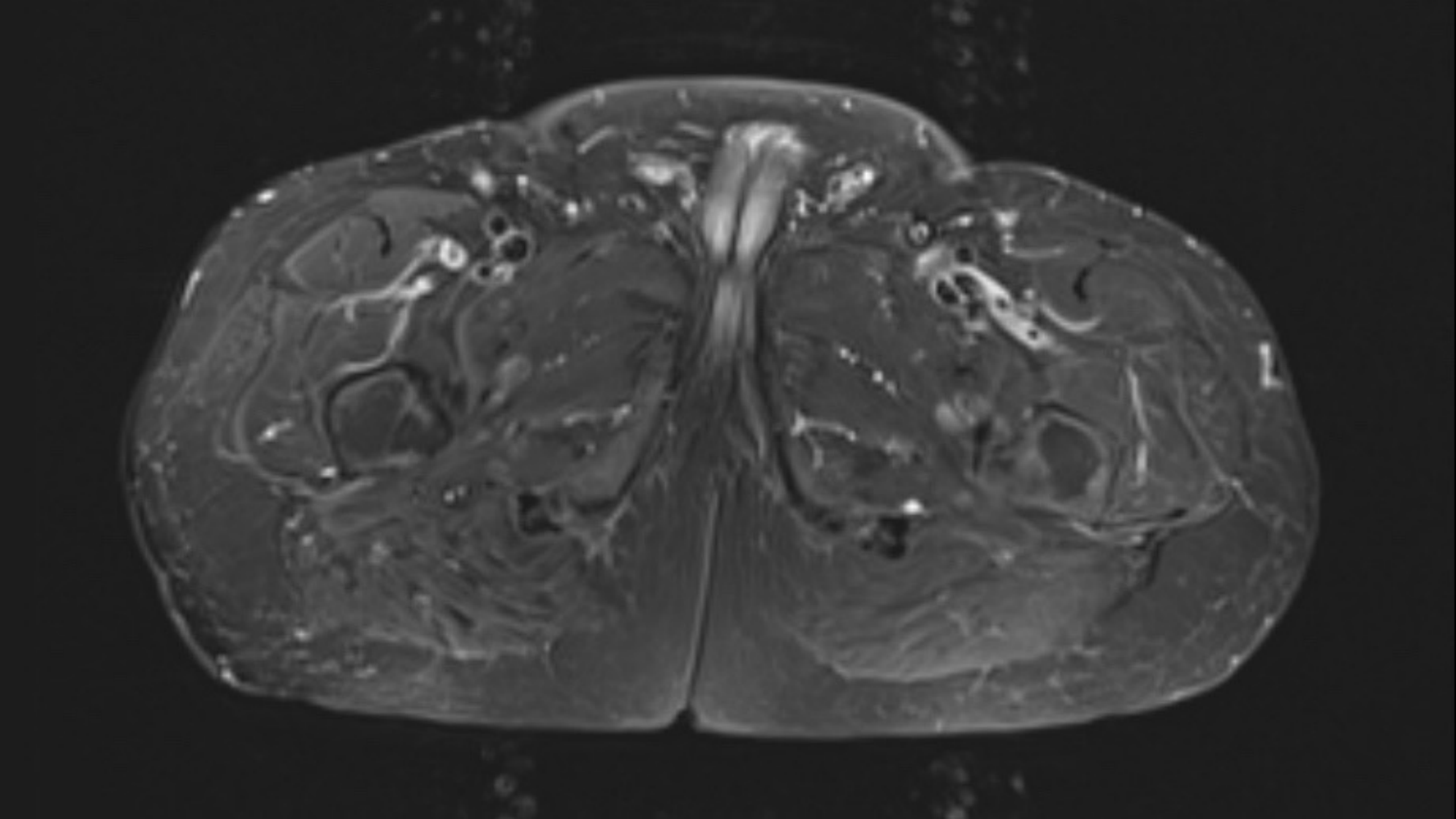


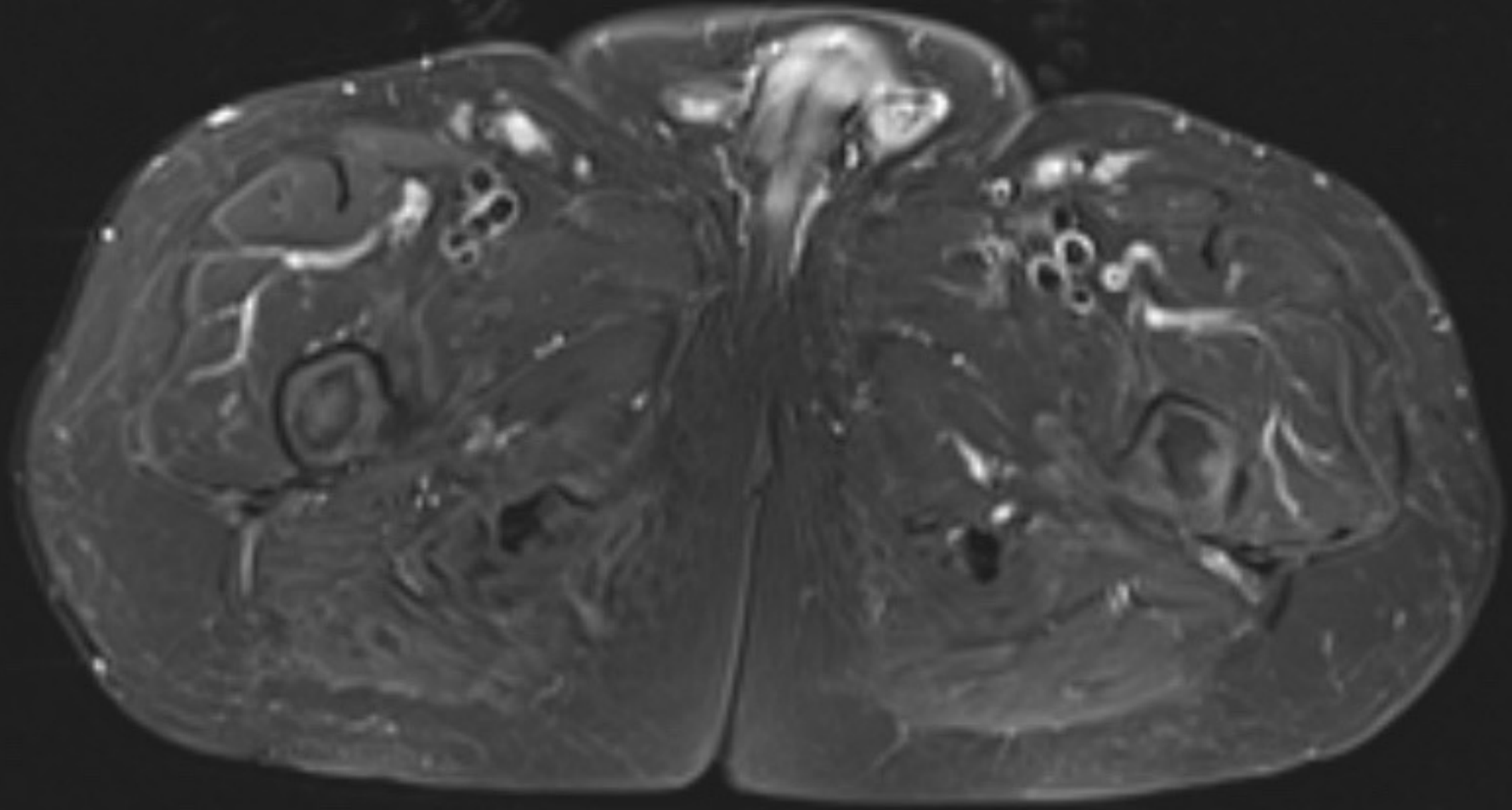


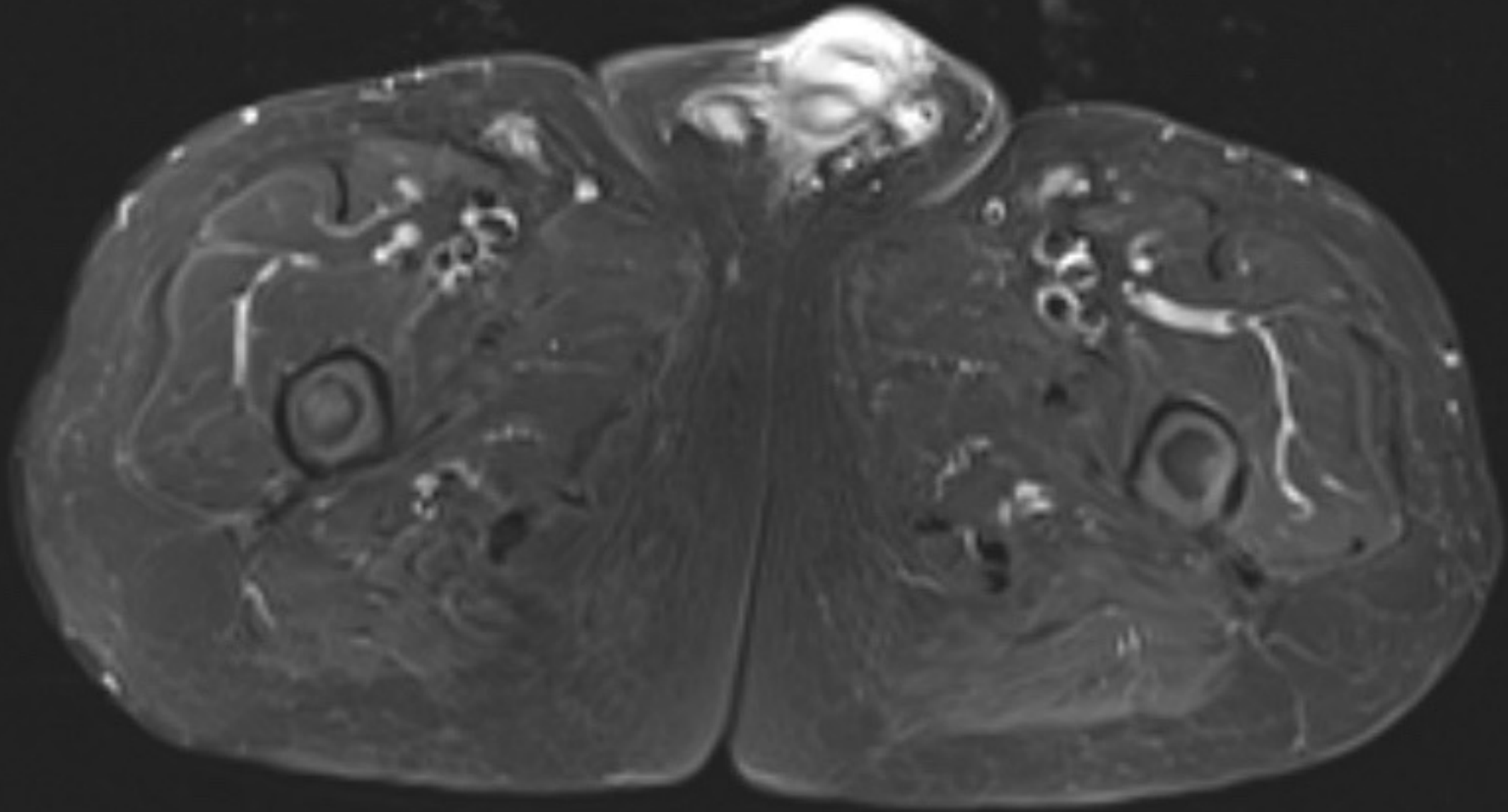


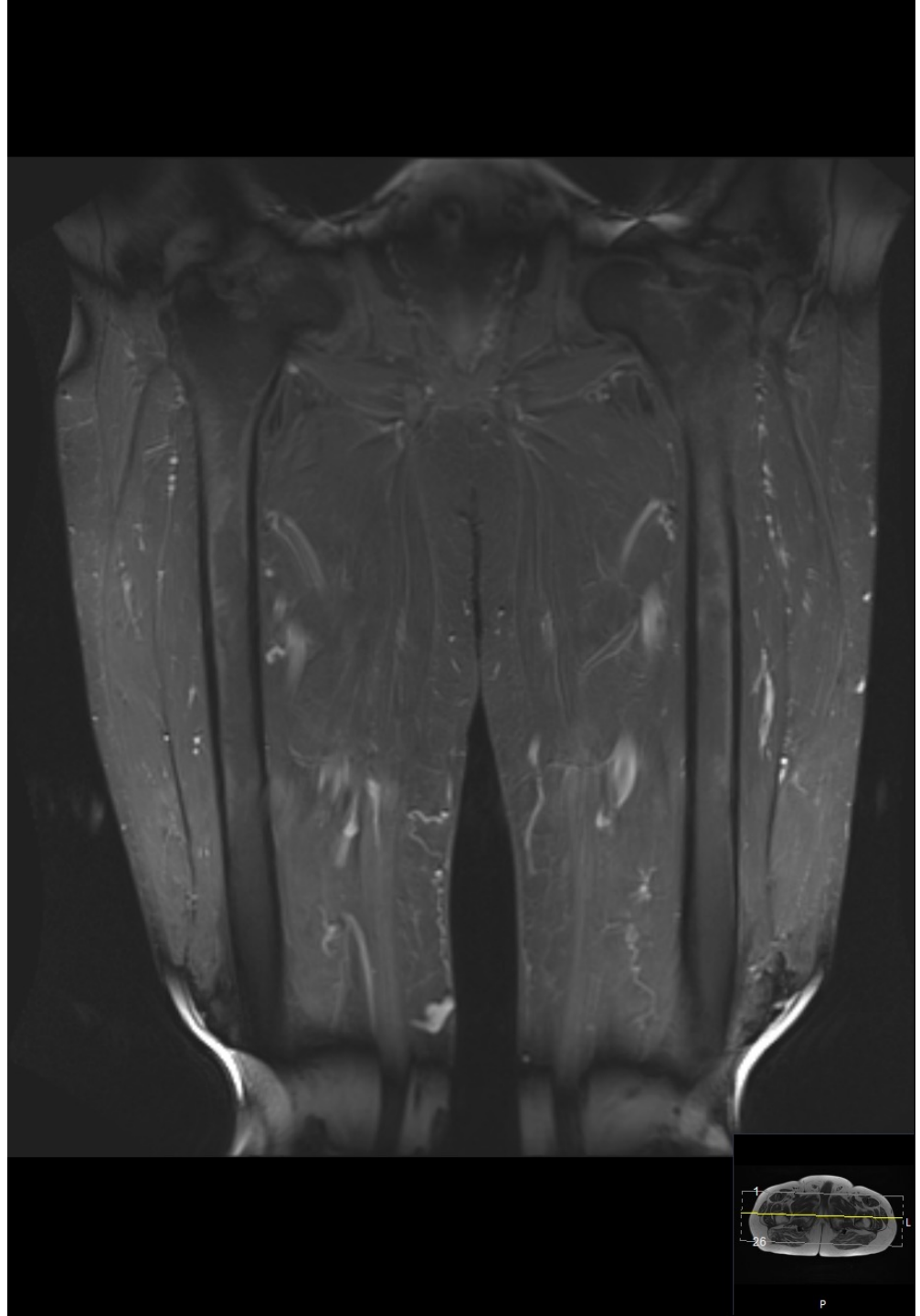








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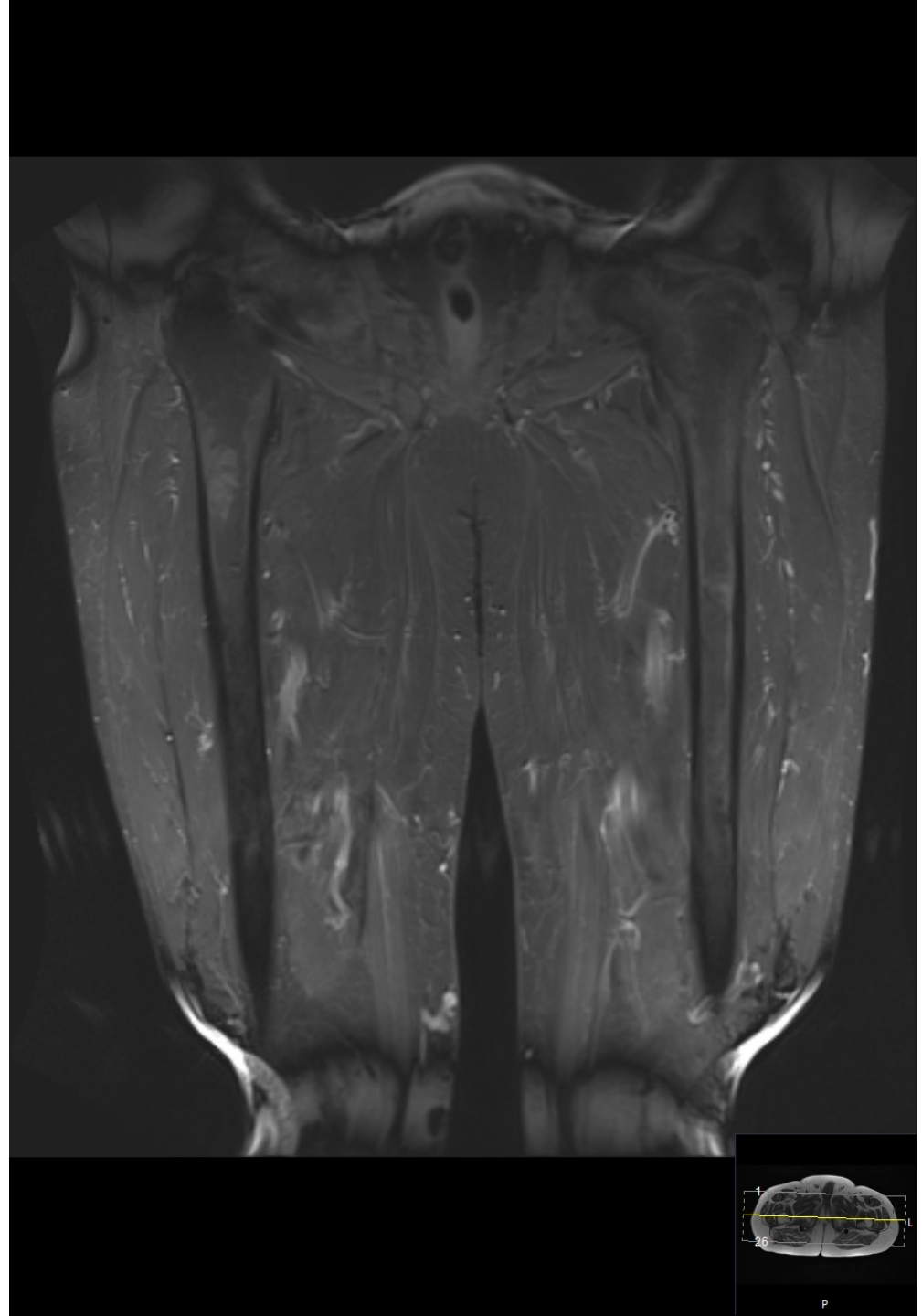
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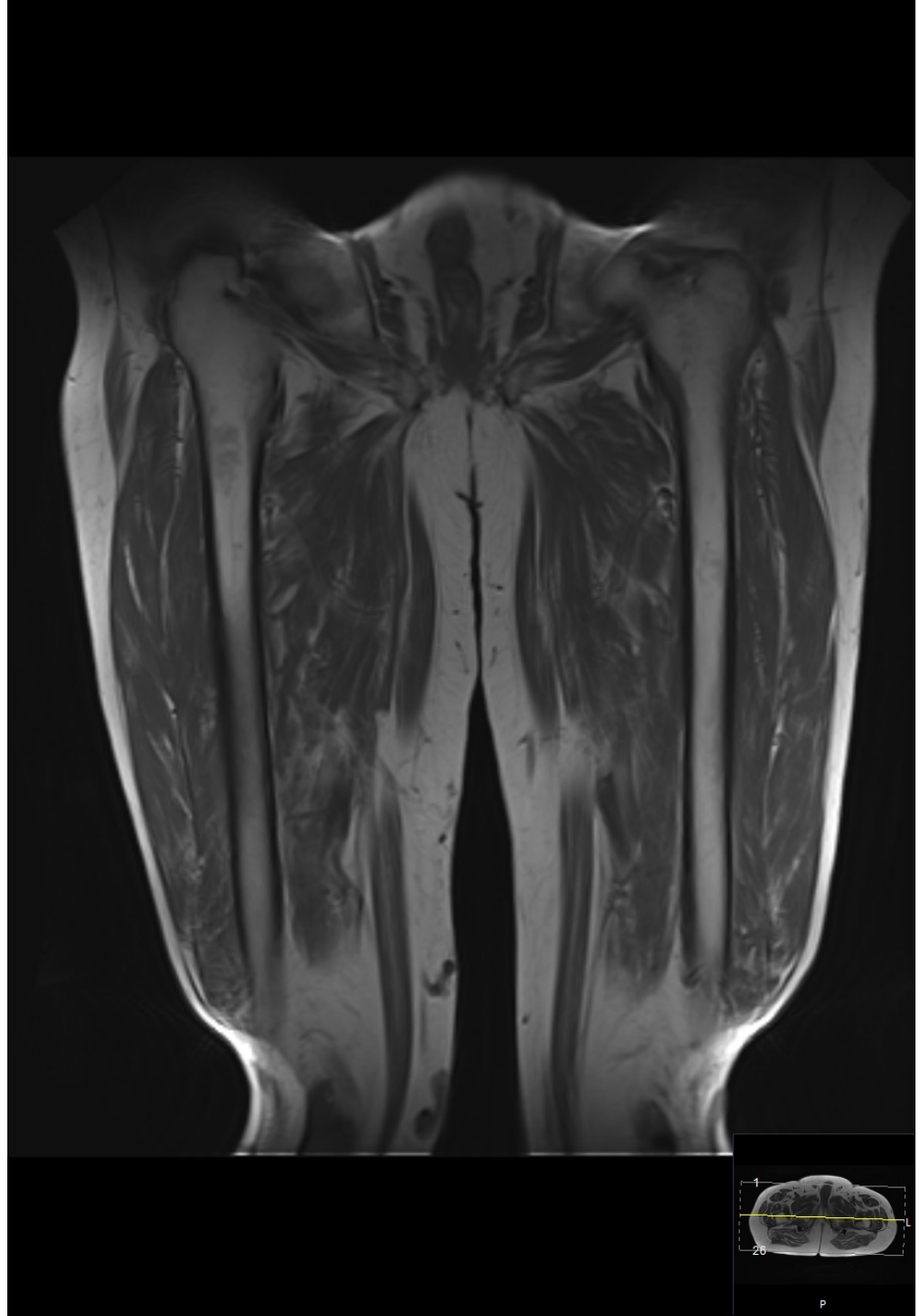
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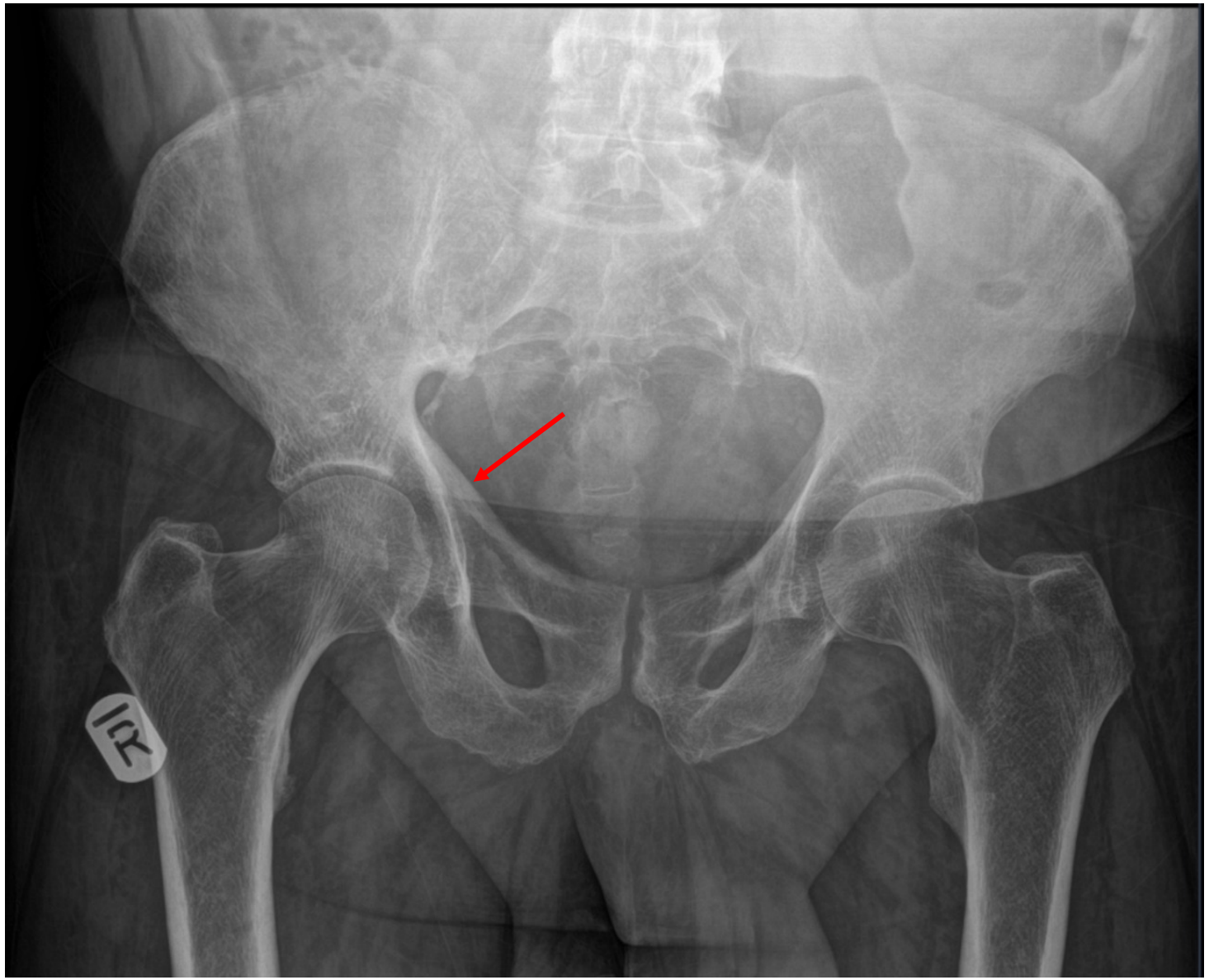
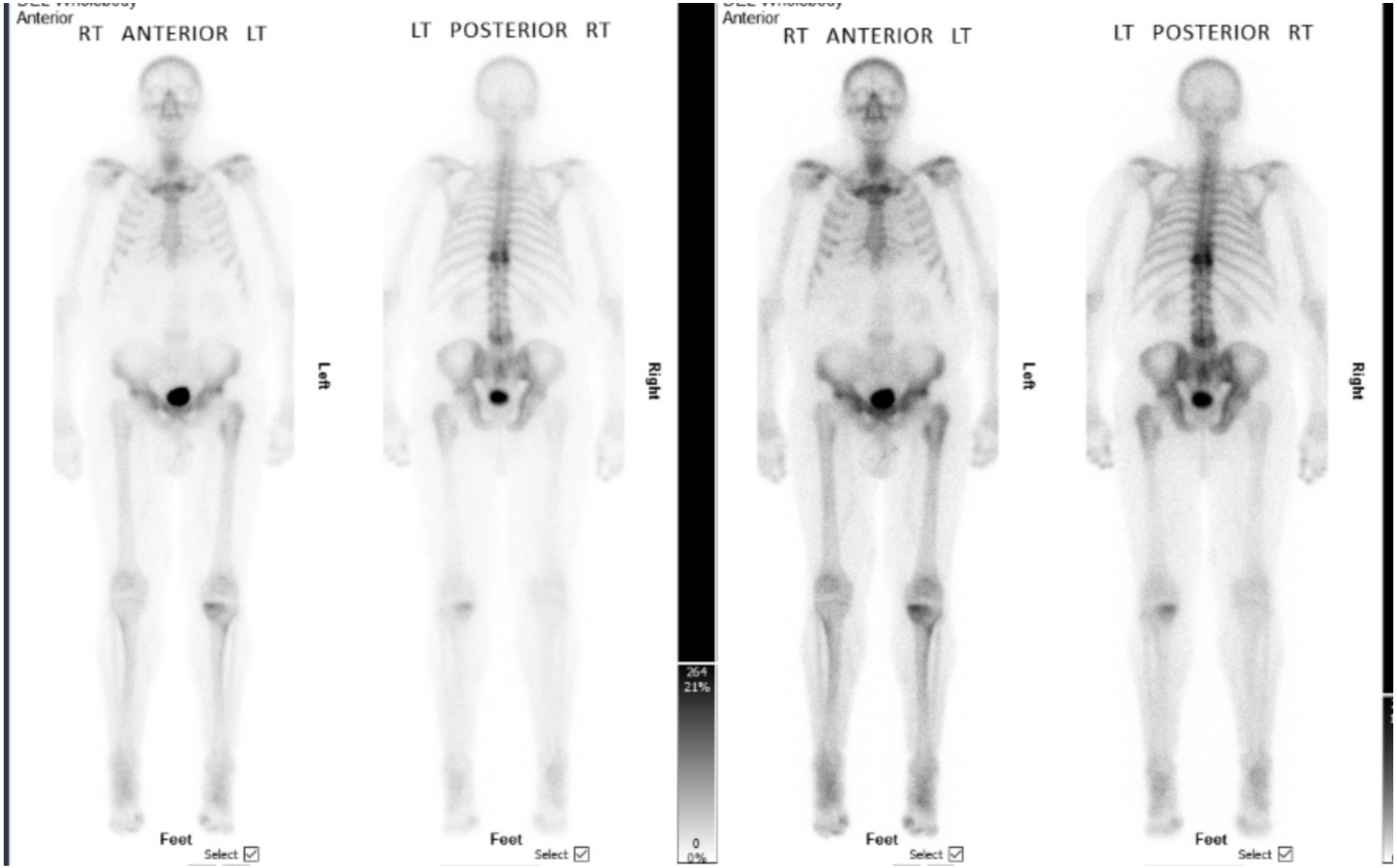
Previous studies …which lead to the MRI

I only have one pelvic radiograph and 1 bone scan
Nothing else in our system

Clinical History : 81 yo male. Left hip pain and stiffness, raise alk phos, no other joint pains, hx of mantle lymphoma. Ultrasound showed No parathyroid adenoma

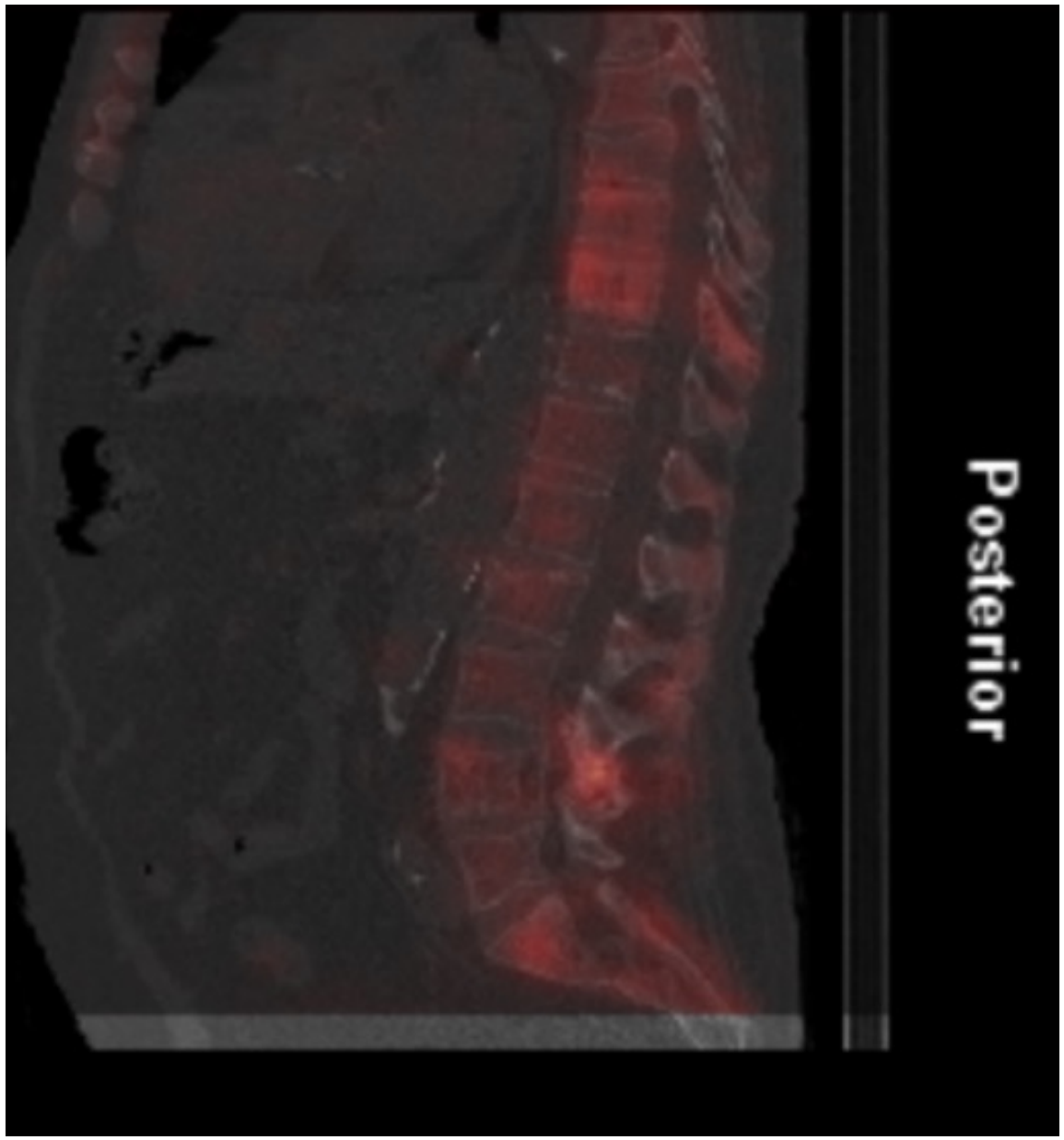


NM Bone Scan:
Clinical Details: ? Paget's disease, isolated raised Alkaline phosphotase, for bone scan



MIP

Fused Sagittals

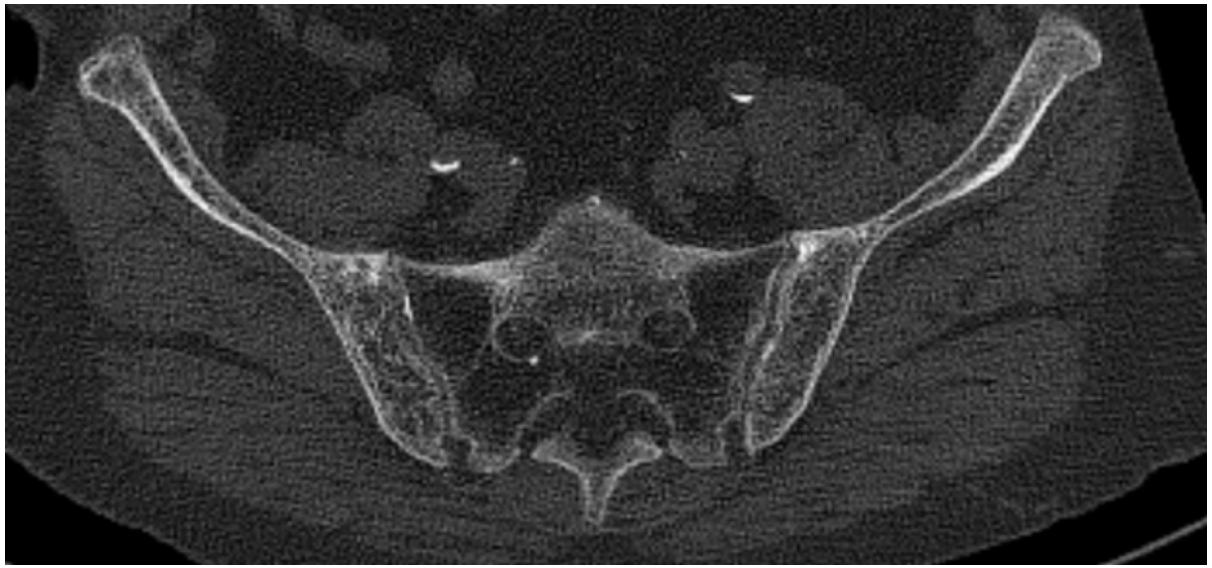


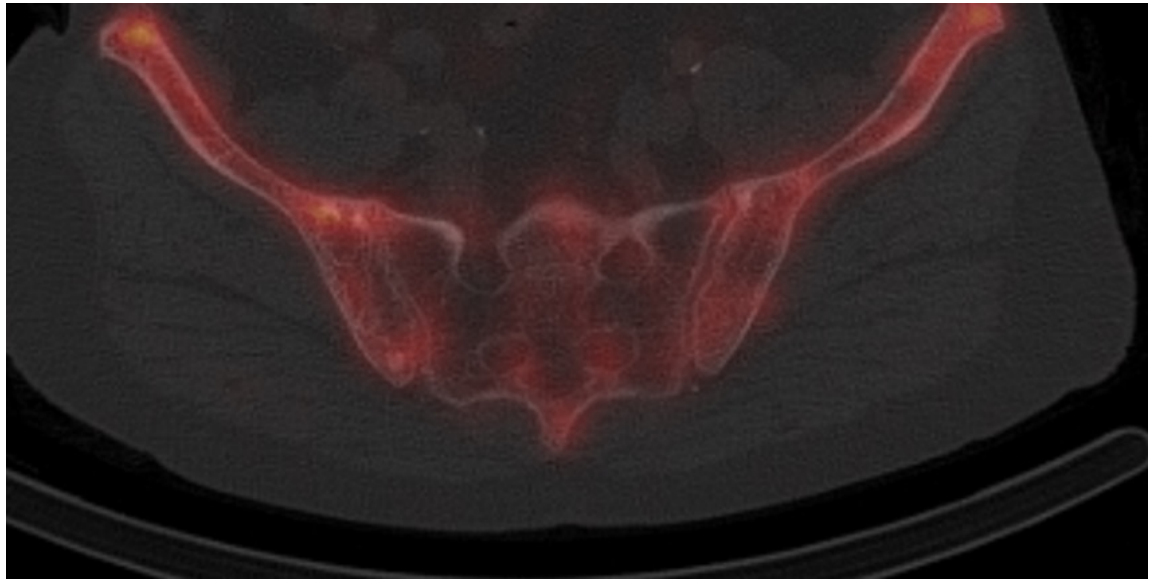
Axial images of the bone scan

T10

L4

Some selected images of the pelvis. Femurs not imaged





Report Bone Scan

- NM Bone whole body:

  Triple phase bone scan.

- There is increased cortical uptake within the proximal shaft of the left femur, with impression of minor bony expansion.
- Critically, however, the femoral head is unremarkable.

- There is uptake within vertebral body and posterior elements of T10 and L4. There is also uptake at this level associated with prominent bridging osteophytes and endplate degenerative disease.
- The pelvis shows bilateral symmetrical prominent tracer accumulation.

- Focal uptake in the lower lumbar spine correlates with bilateral L4-5 facet arthropathy.

- Impression:
- Probable Paget's disease involving T10 and L4. Possible pelvic involvement. Femoral uptake is not in a pagetic distribution and the cause is unclear. MRI may be helpful.