

Femoroacetabular Impingement

By Dr. Michael P. Stuchin



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Femoroacetabular impingement and the cam-effect. A MRI-based quantitative anatomical study of the femoral head-neck offset

410. Ito K, Minka MA 2nd, Leunig M, Werlen S, Ganz R.

J Bone Joint Surg Br. 2001 Mar;83(2):171-6.

PMID: 11284559 [PubMed - indexed for MEDLINE] [Free Article](#)

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Anterior femoroacetabular impingement after periacetabular osteotomy.

411. Myers SR, Eijer H, Ganz R.

Clin Orthop Relat Res. 1999 Jun;(363):93-9.

PMID: 10379309 [PubMed - indexed for MEDLINE] [Free Article](#)

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Full Text

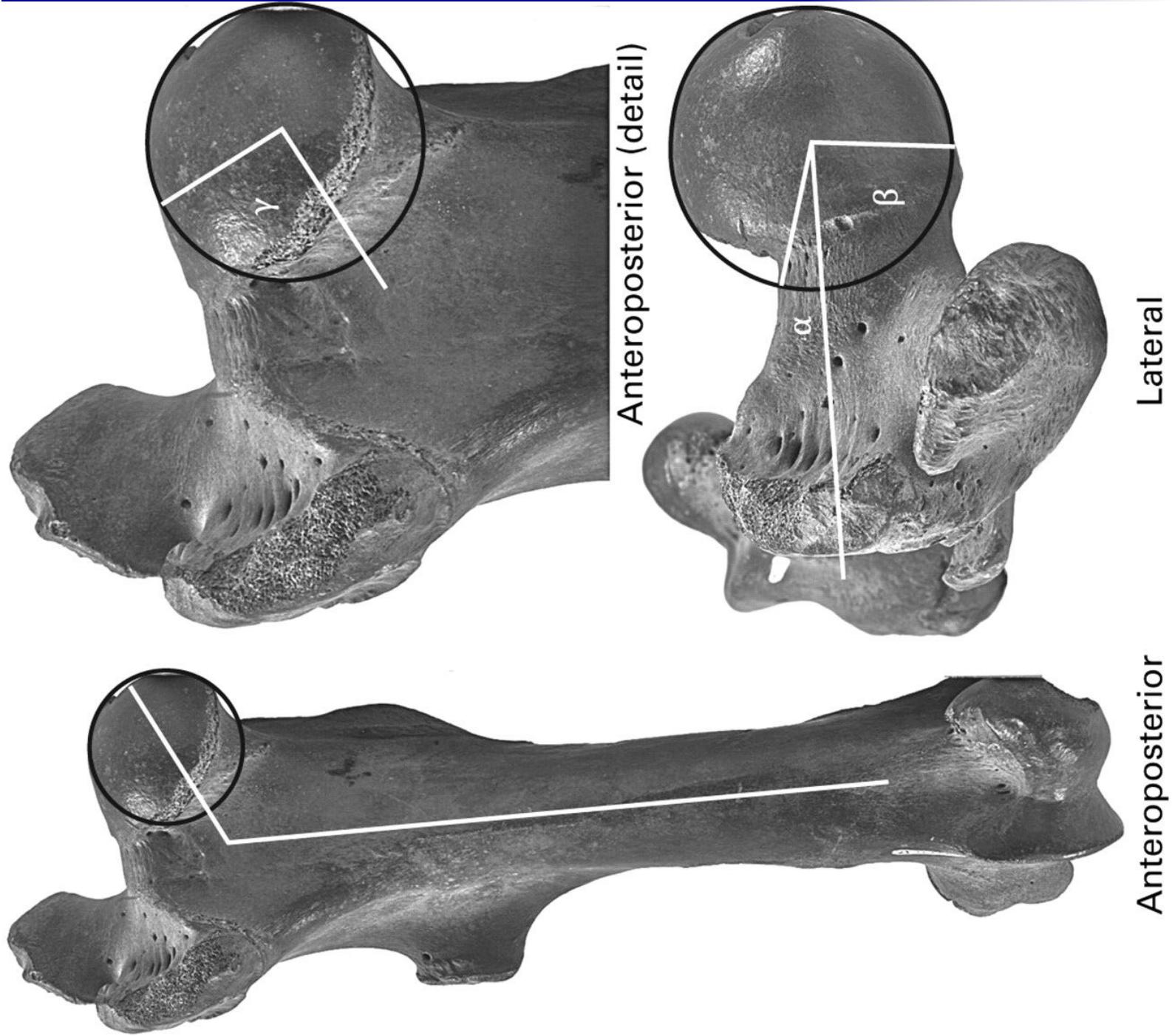
**Human hip impingement morphology: AN
EVOLUTIONARY EXPLANATION**

Hogervorst et al. J Bone Joint Surg

Br 2011; 93-B: 769-776



More than just a bump: Cam-type femoroacetabular impingement and the evolution of the femoral neck
Vincent Y. Ng, Thomas J. Ellis **Hip Int 2011; 21(1): 1 - 8**



HIP JOINT





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SAMPLE USE ONLY

Osseous abnormalities and early osteoarthritis: the role of hip impingement.

Tanzer M, Noiseux N.

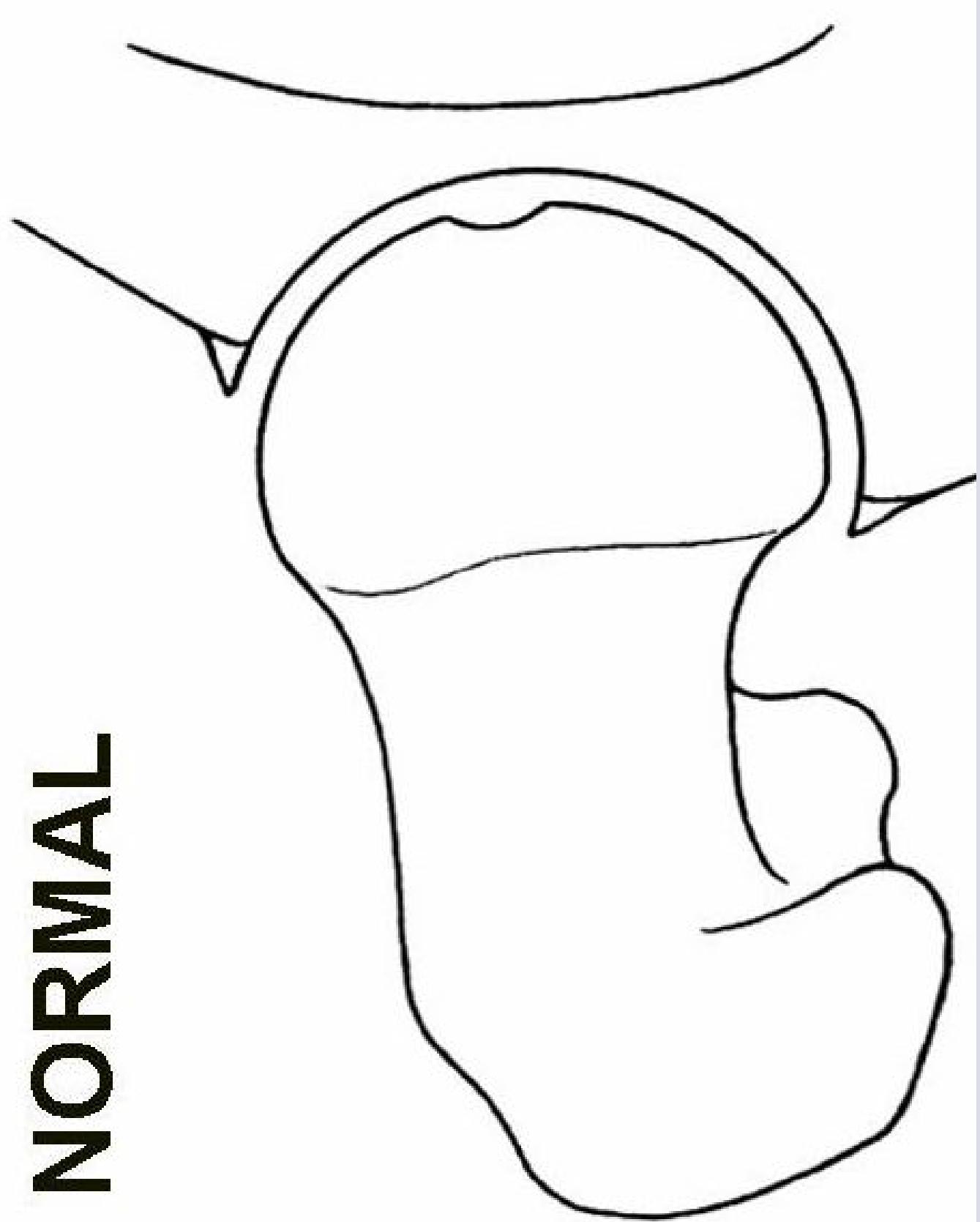
Division of Orthopaedic Surgery, McGill University, Montreal, Quebec, Canada. mtanz@canada.ca.com

Abstract

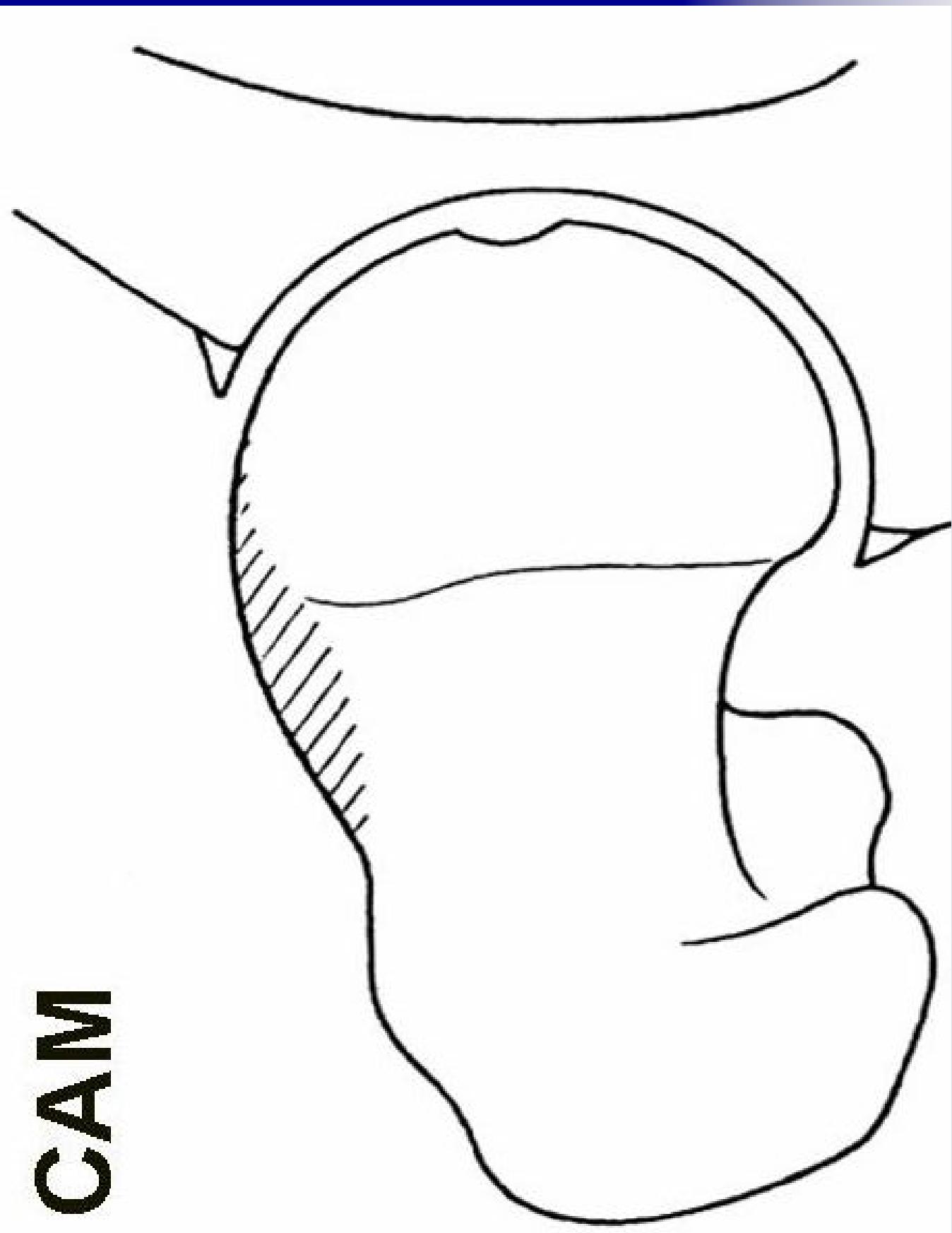
The purpose of this study was to establish that anterior hip impingement, secondary to an anterior femoral offset deficiency from a pistol-grip deformity, was a common etiology of hip disorders. This impingement results in a spectrum of injury ranging from anterior hip pain, labral tears, damage to the acetabular articular cartilage and idiopathic arthritis. This was accomplished through three separate but closely related studies: (1) an arthroscopic labral tear study of 38 patients who had hip arthroscopy for a labral tear (2) a hip chellectomy study of 10 patients who had a chellectomy for anterior femoroacetabular impingement and (3) an idiopathic arthritis study of 200 consecutive patients having THA. In all three studies, a common etiology was identified. Repetitive anterior femoroacetabular impingement resulted in anterior groin pain, labral tears, chondral damage and eventually arthritis. This impingement was caused by a pistol-grip deformity of the proximal femur in 97% of the cases in the arthroscopic labral study and 100% of the cases in the idiopathic arthritis study. The identification of anterior hip impingement as a cause of labral tears and idiopathic arthritis may allow surgeons to correct it early in its natural history and delay or prevent end-stage arthritis.

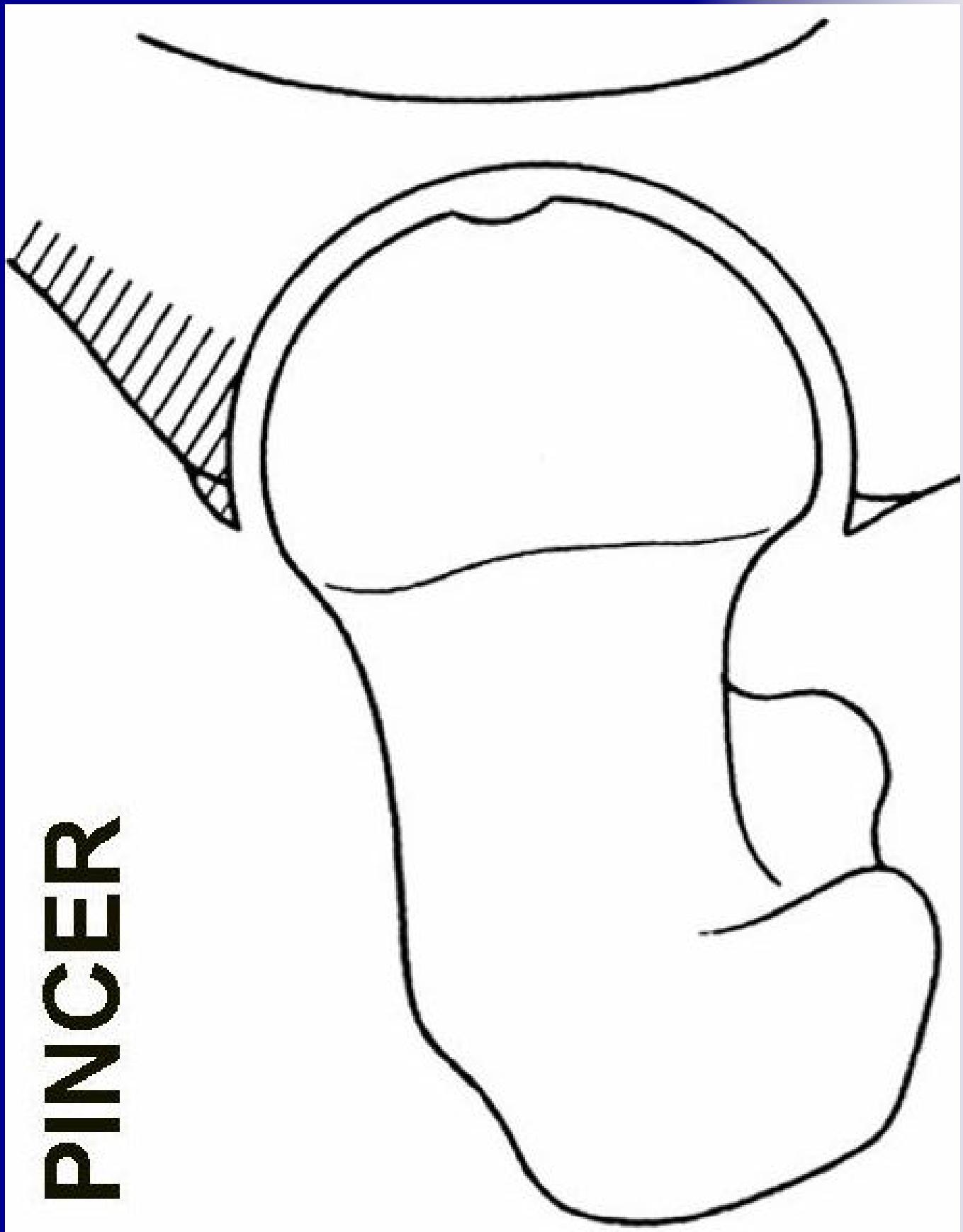
The identification of anterior hip impingement as a cause of labral tears and idiopathic arthritis may allow surgeons to correct it early in its natural history and delay or prevent end-stage arthritis.

NORMAL



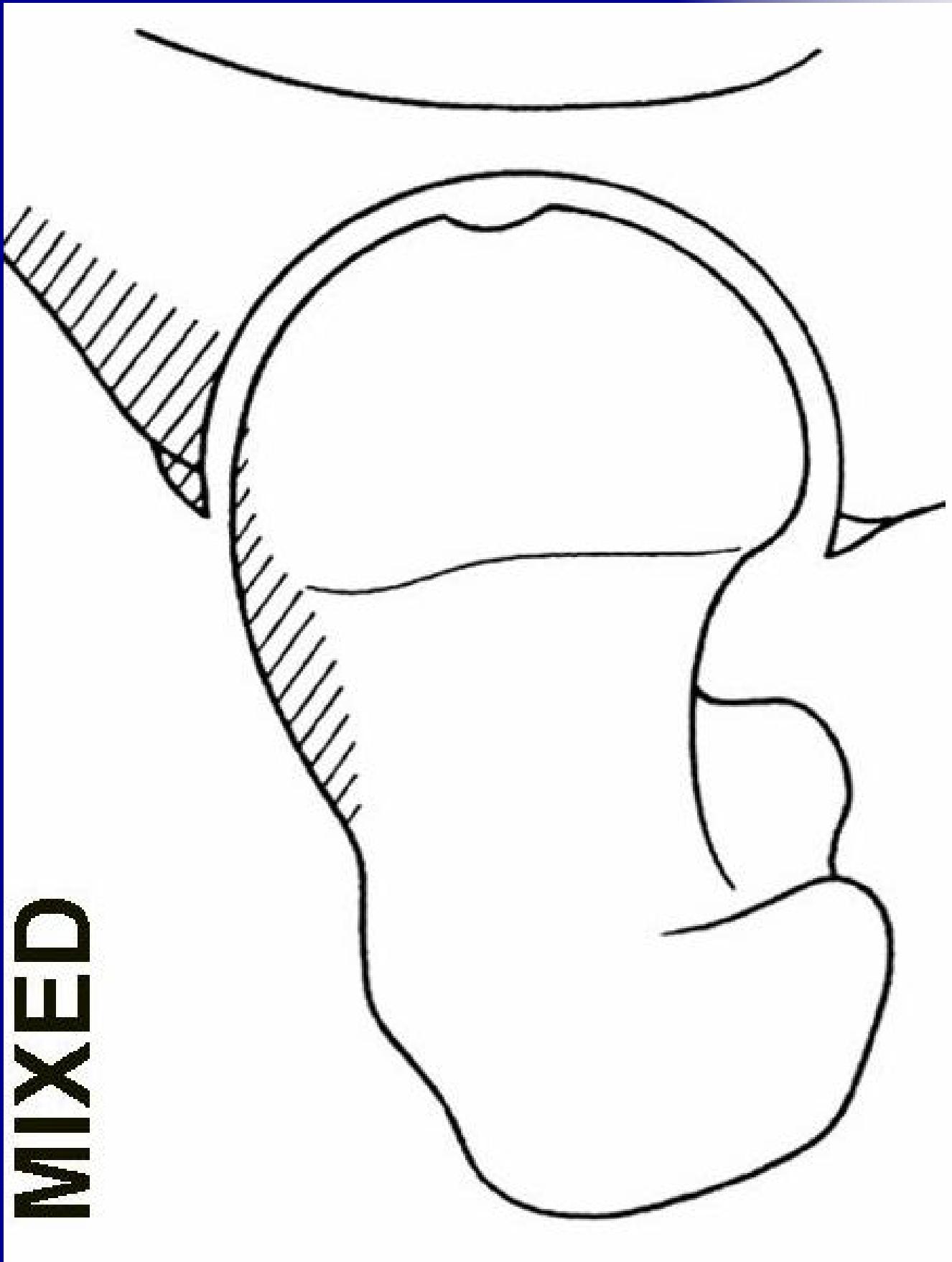
CAM

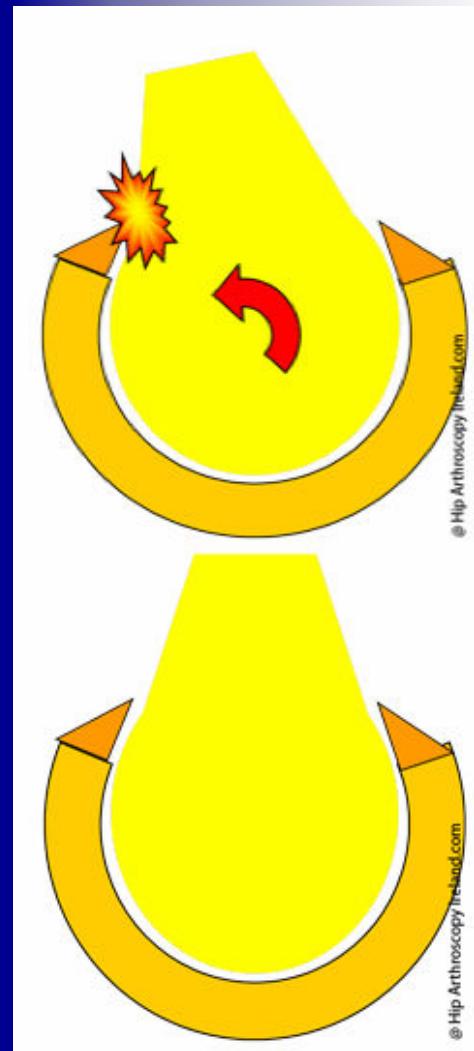
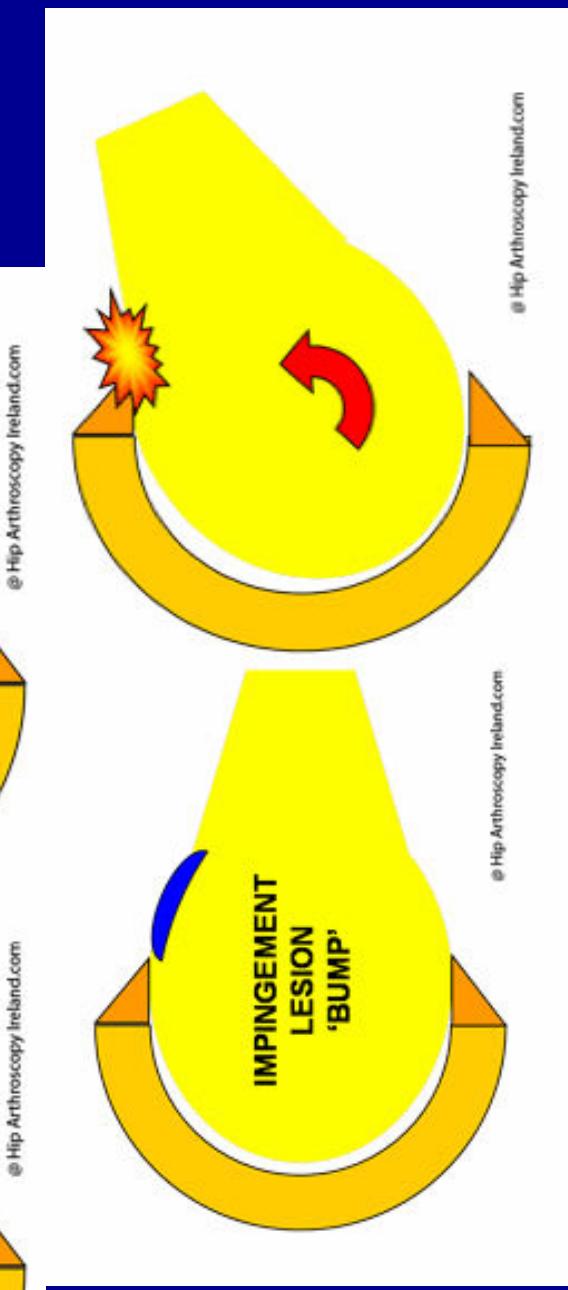
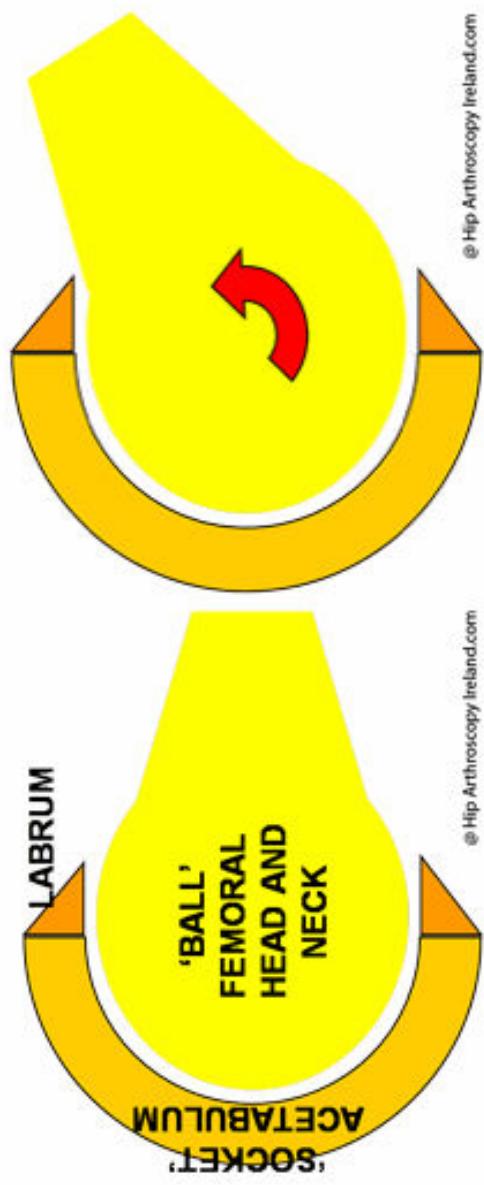




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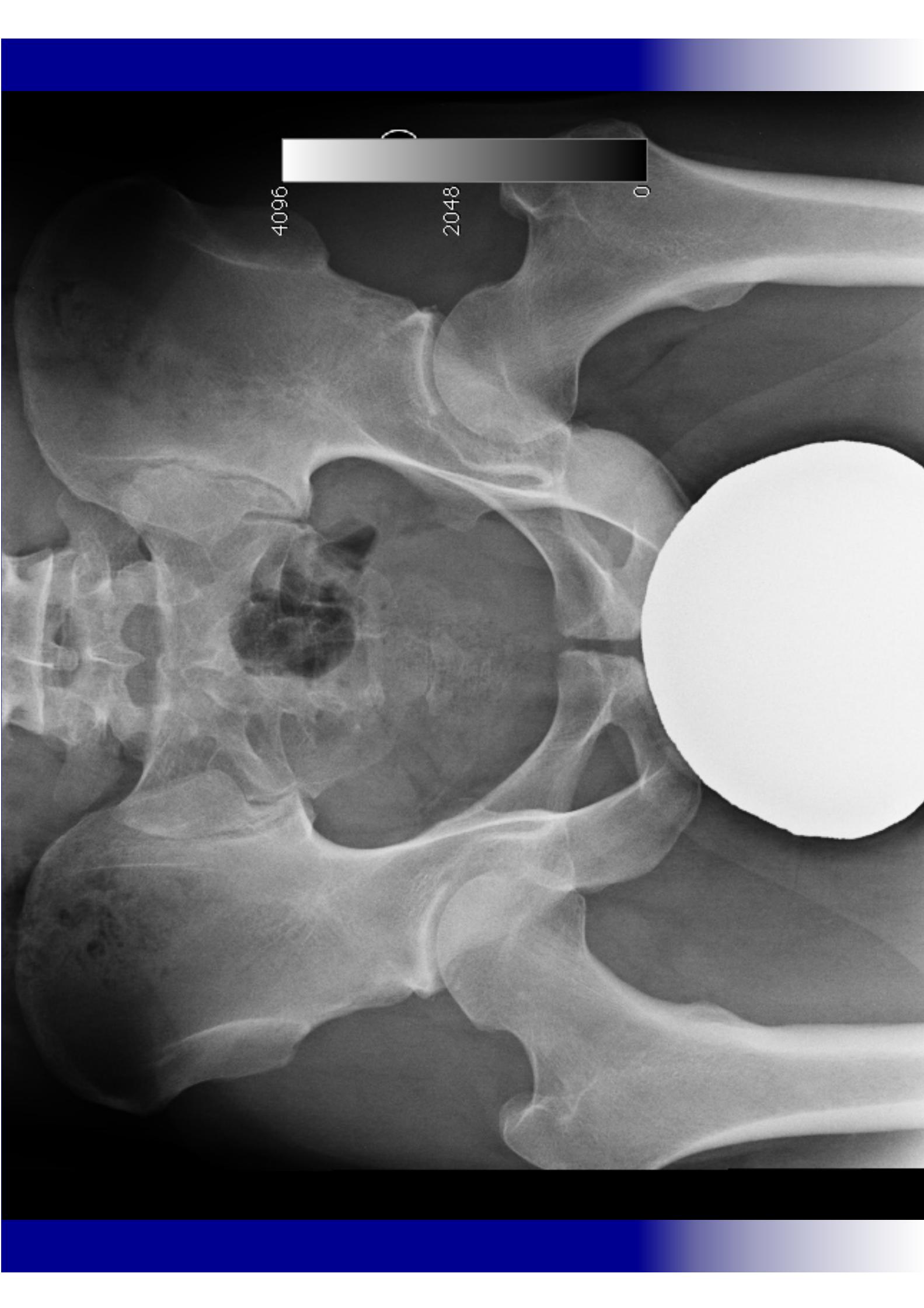
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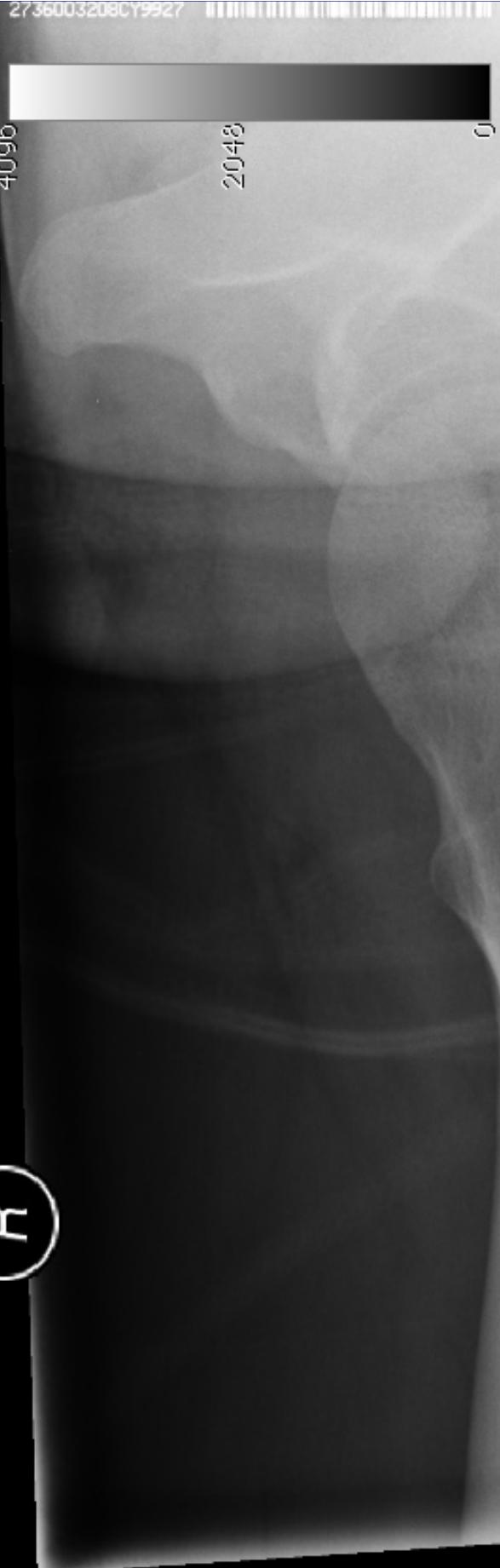


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Horizontal Beam



Horizontal Beam

R



2736003208CY9927

4096

2048

0

Area: 23.457 cm²
Mean: 2073.774 SDev: 360.020 Sum: 518003872
Min: 1230.000 Max: 3160.000

Horizontal Beam

R



Length: 5.968 cm (617.338 pix)

Area: 23.457 cm²
Mean: 2073.774 StdDev: 360.020 Sum: 518003872
Min: 1230.000 Max: 3160.000

Horizontal Beam

R



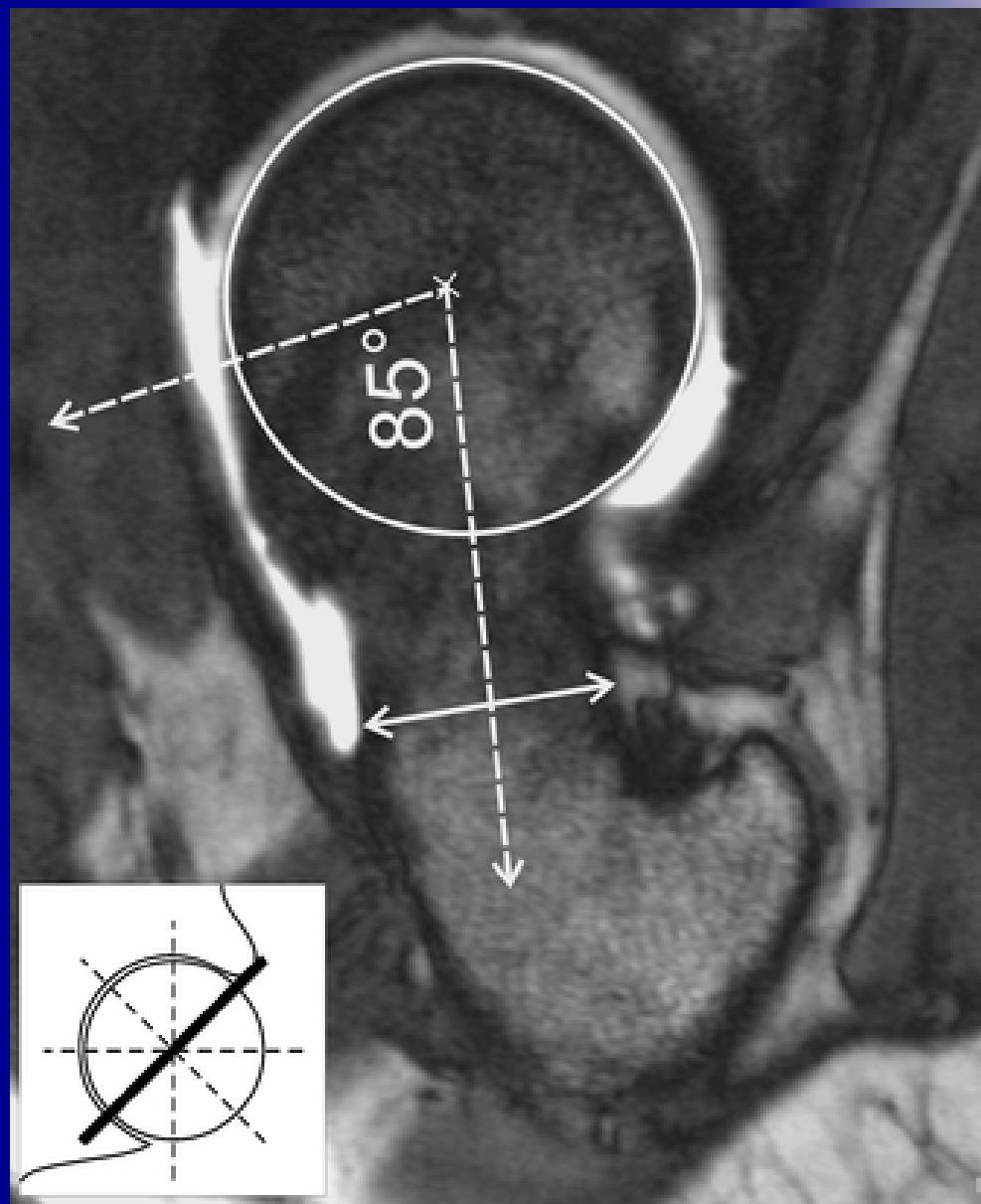
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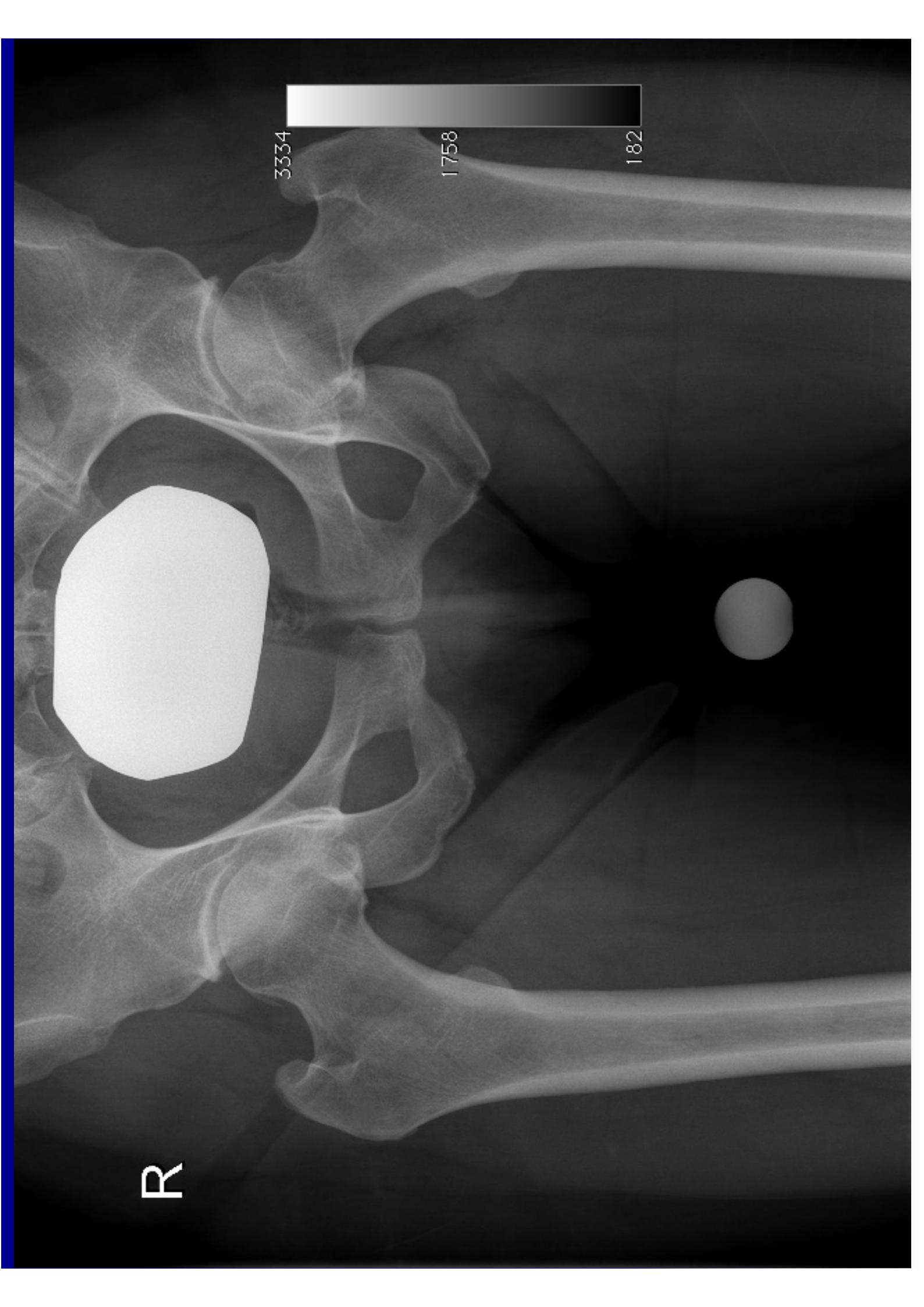
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Femoral measurement



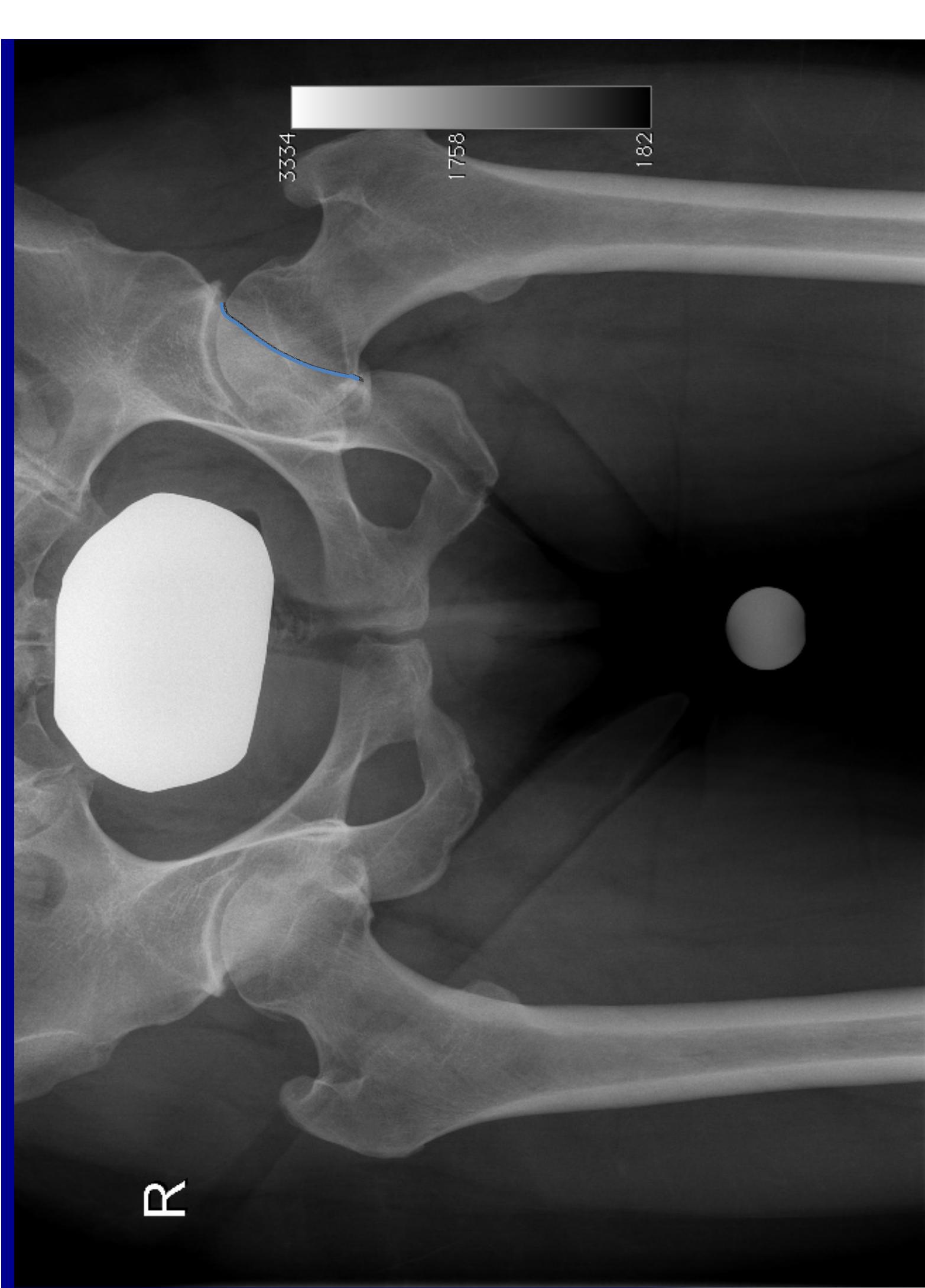


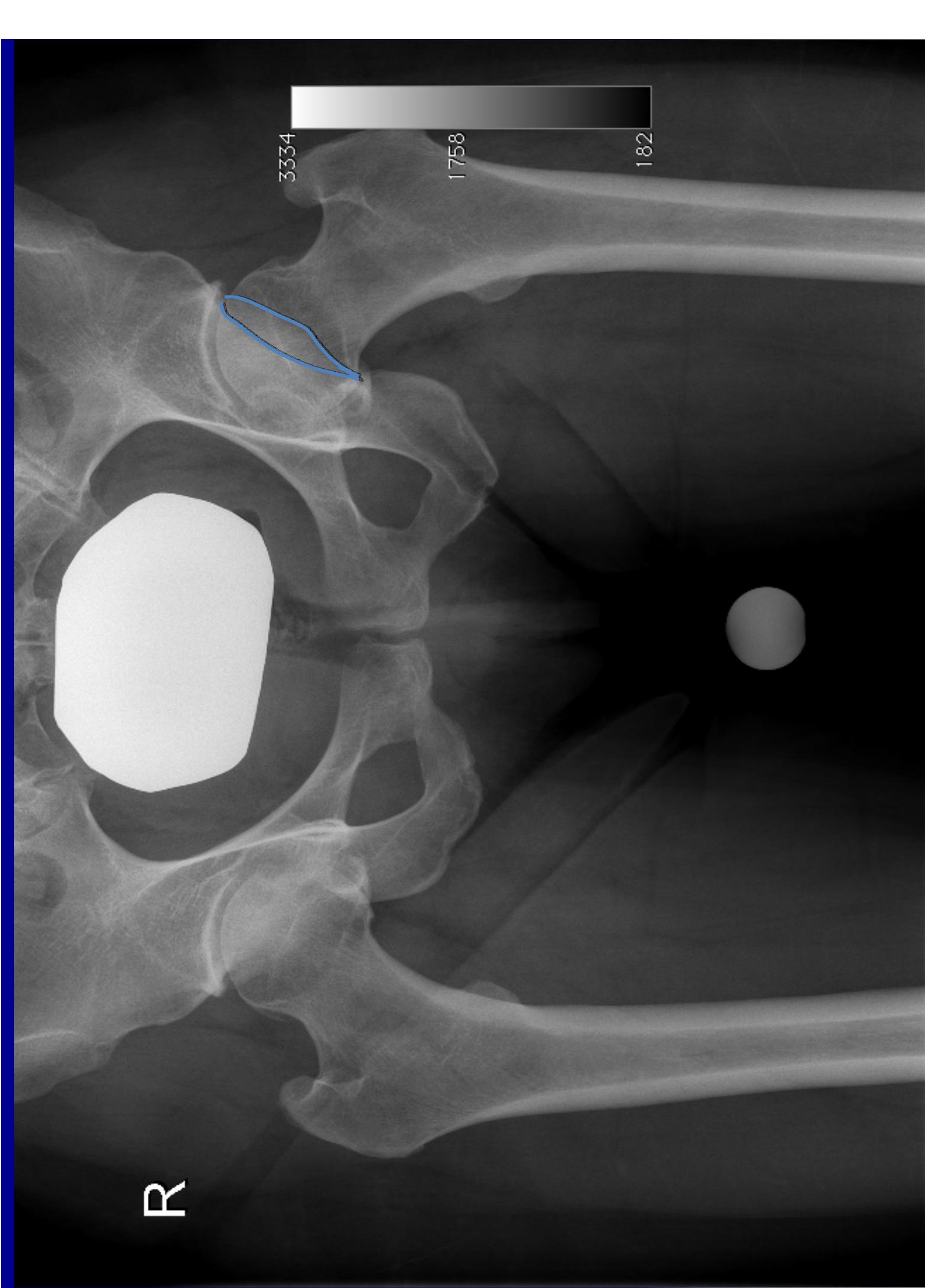
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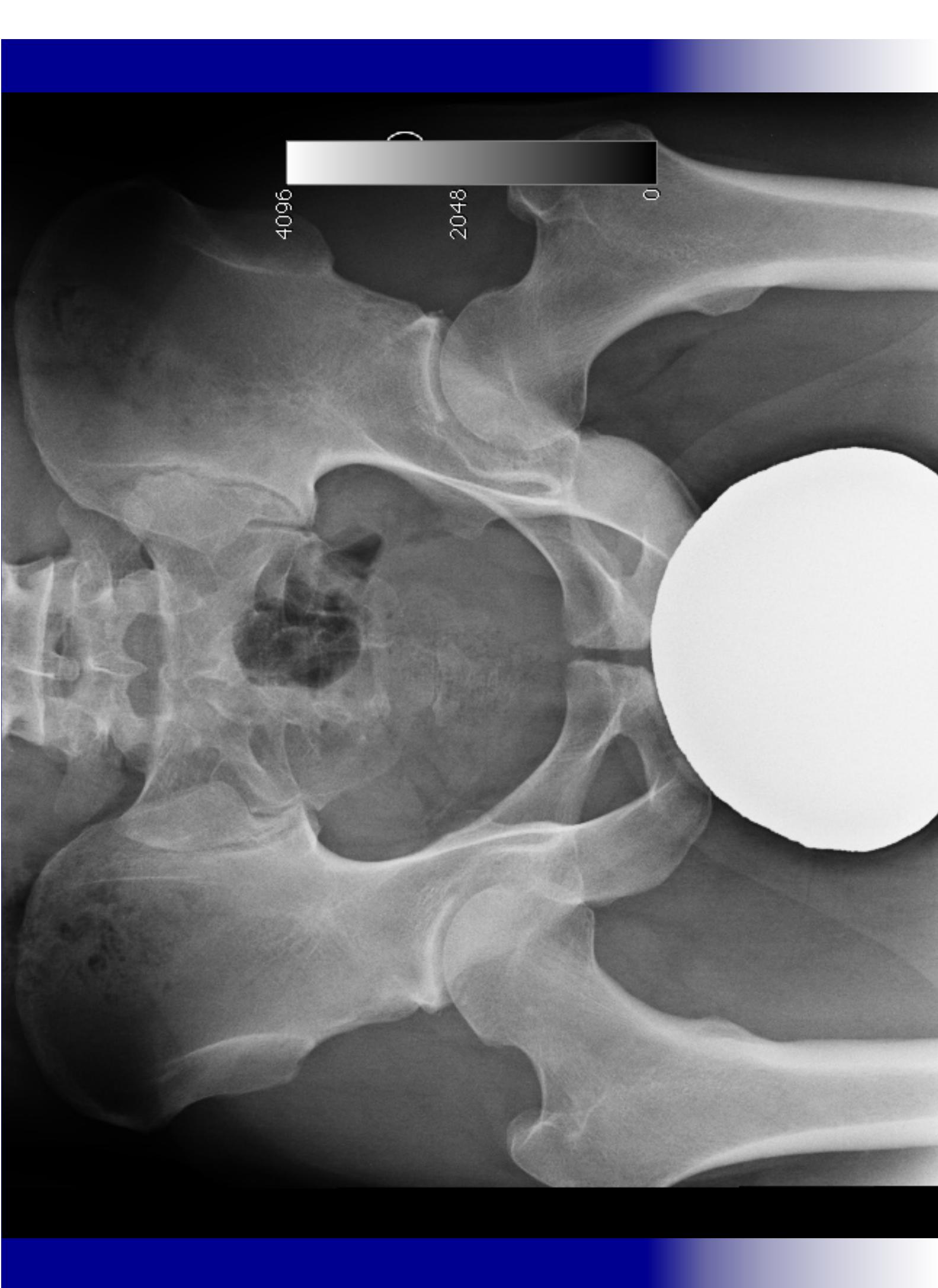
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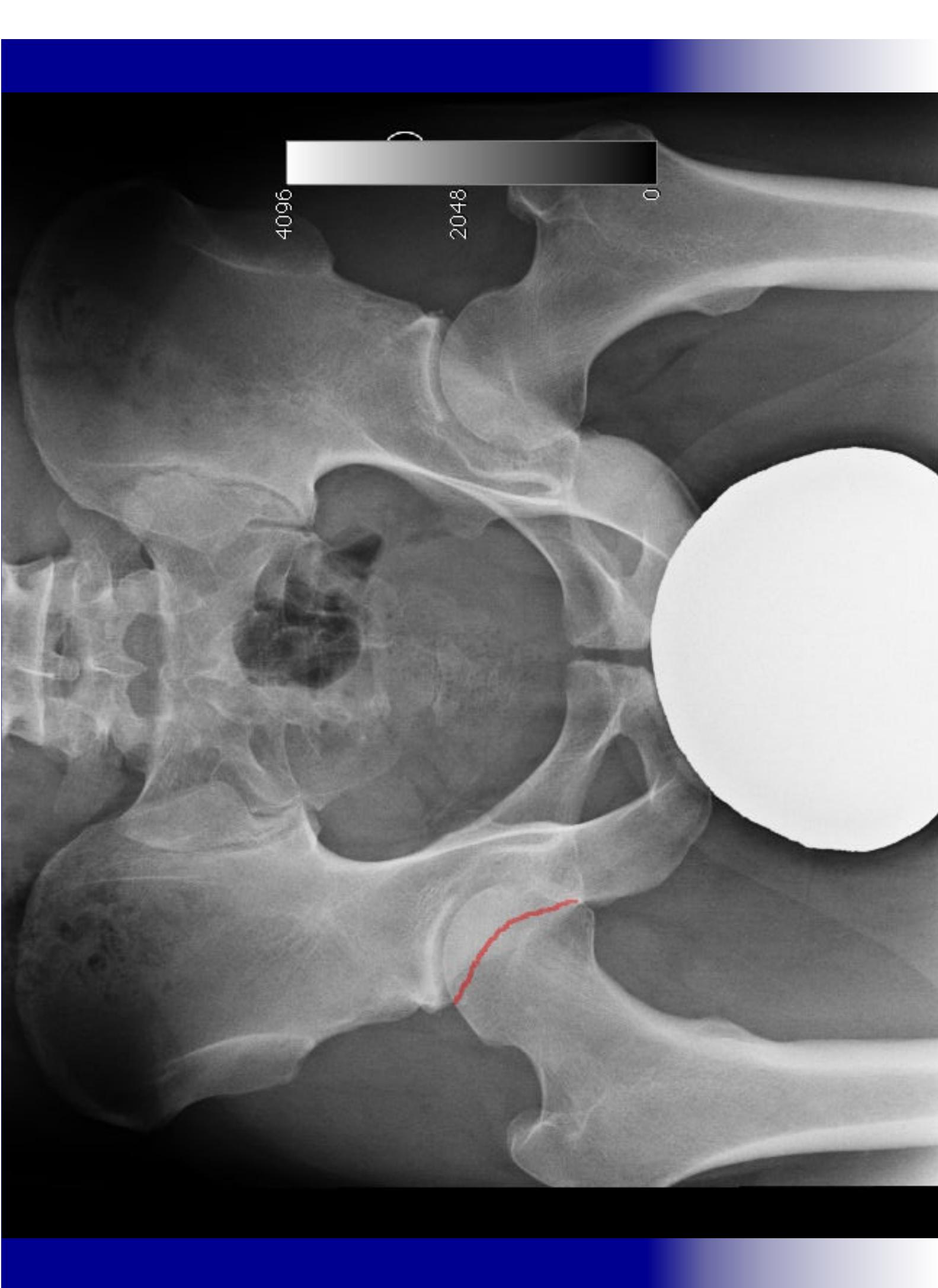


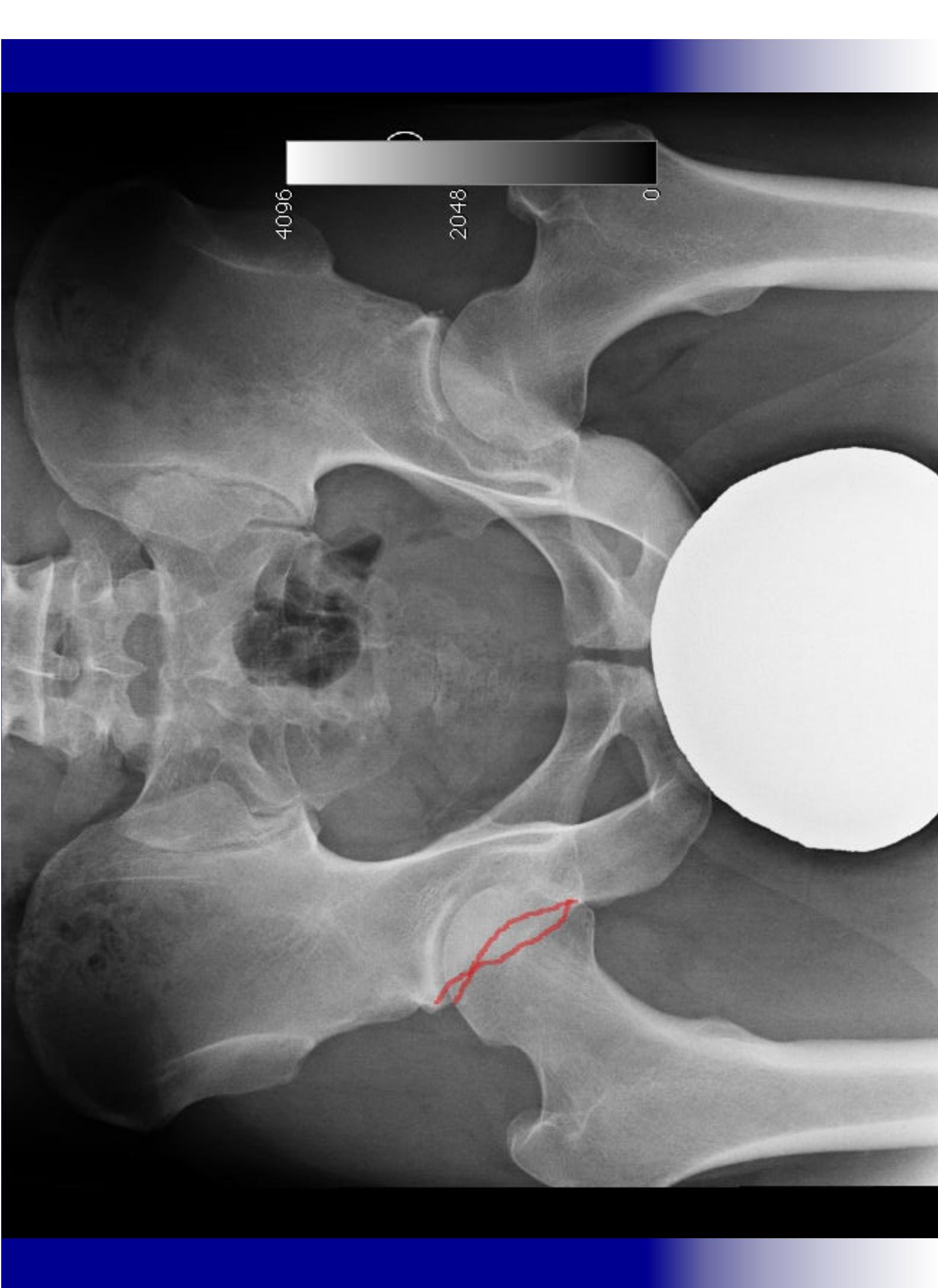


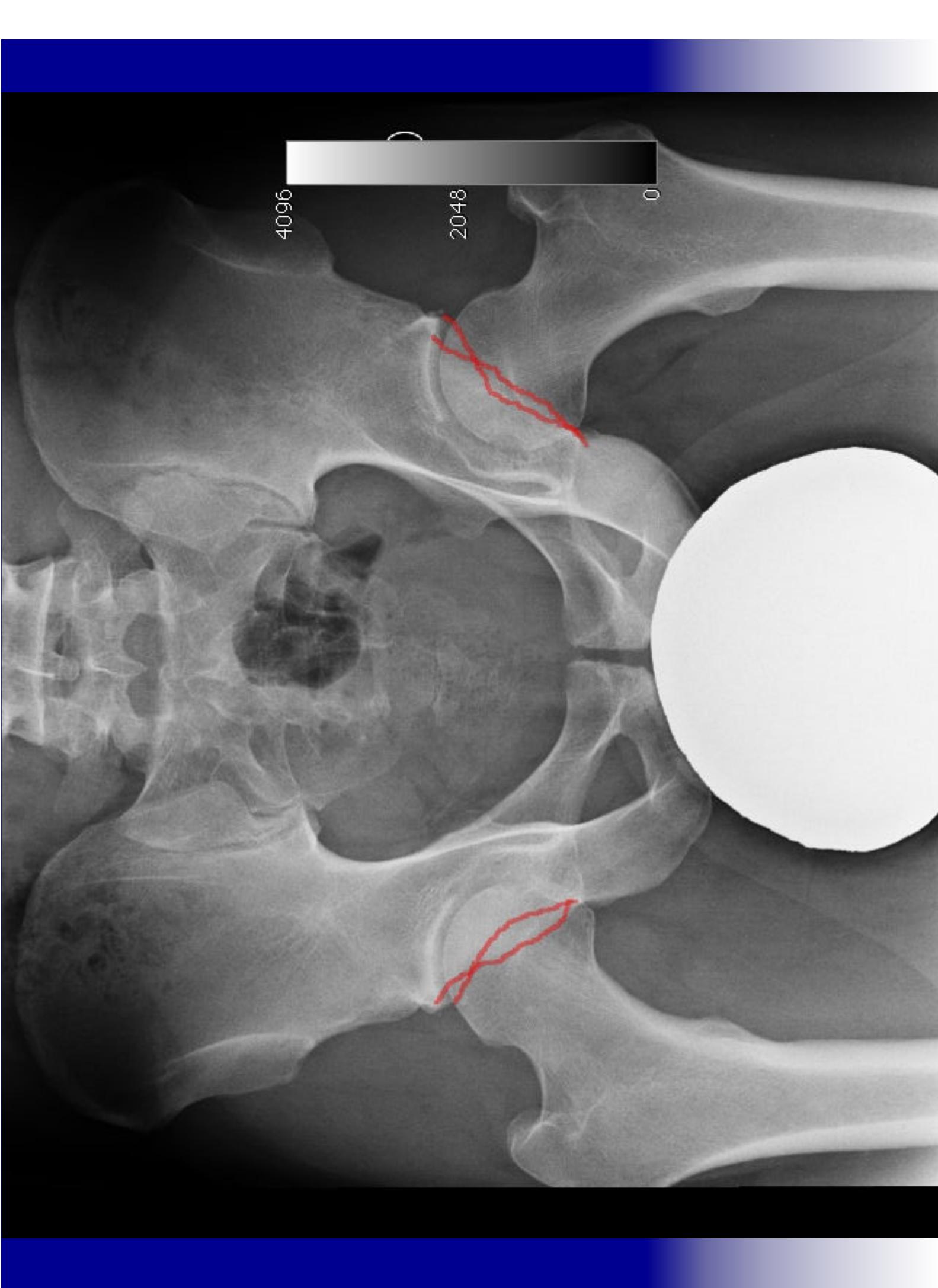
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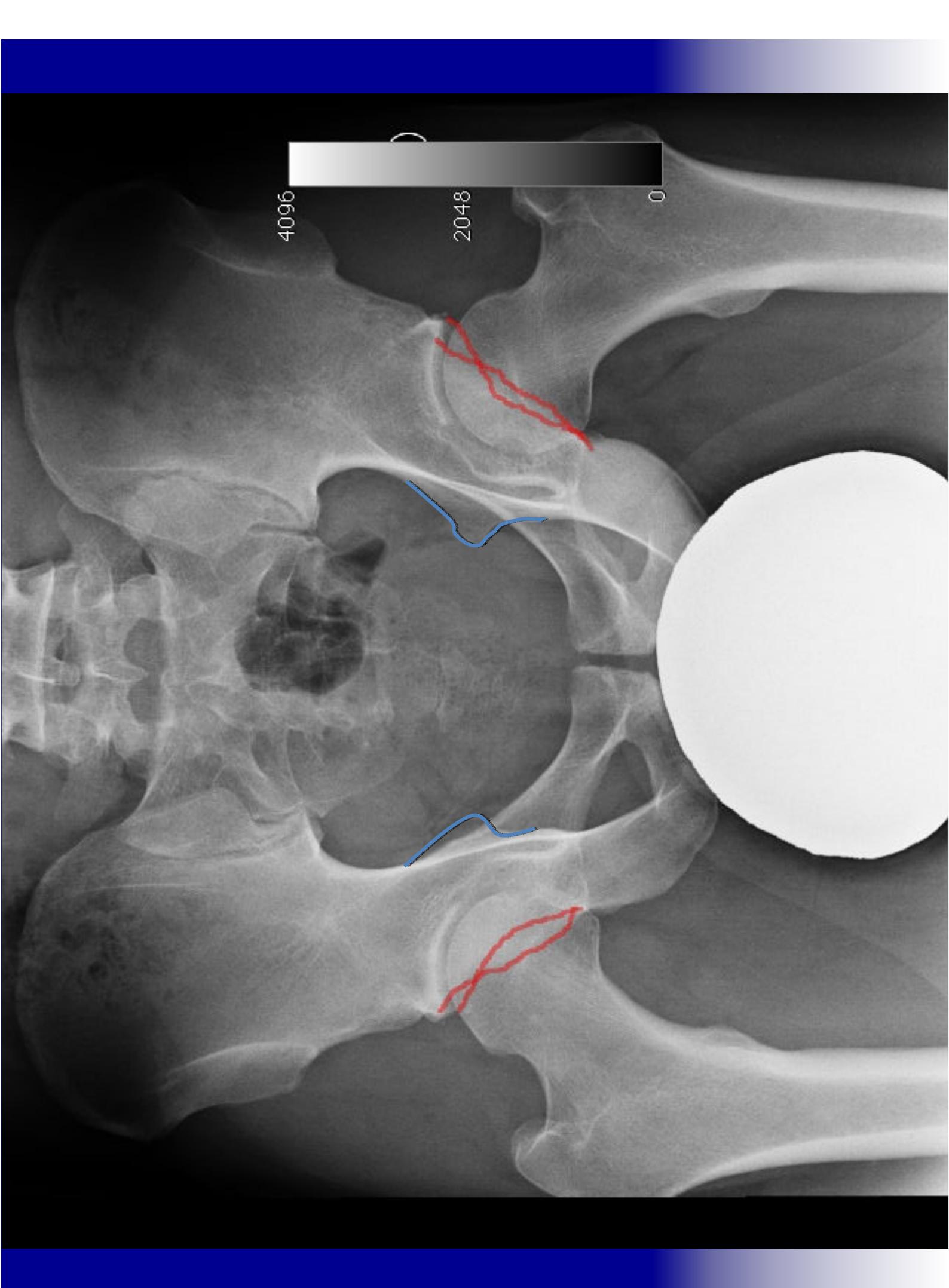
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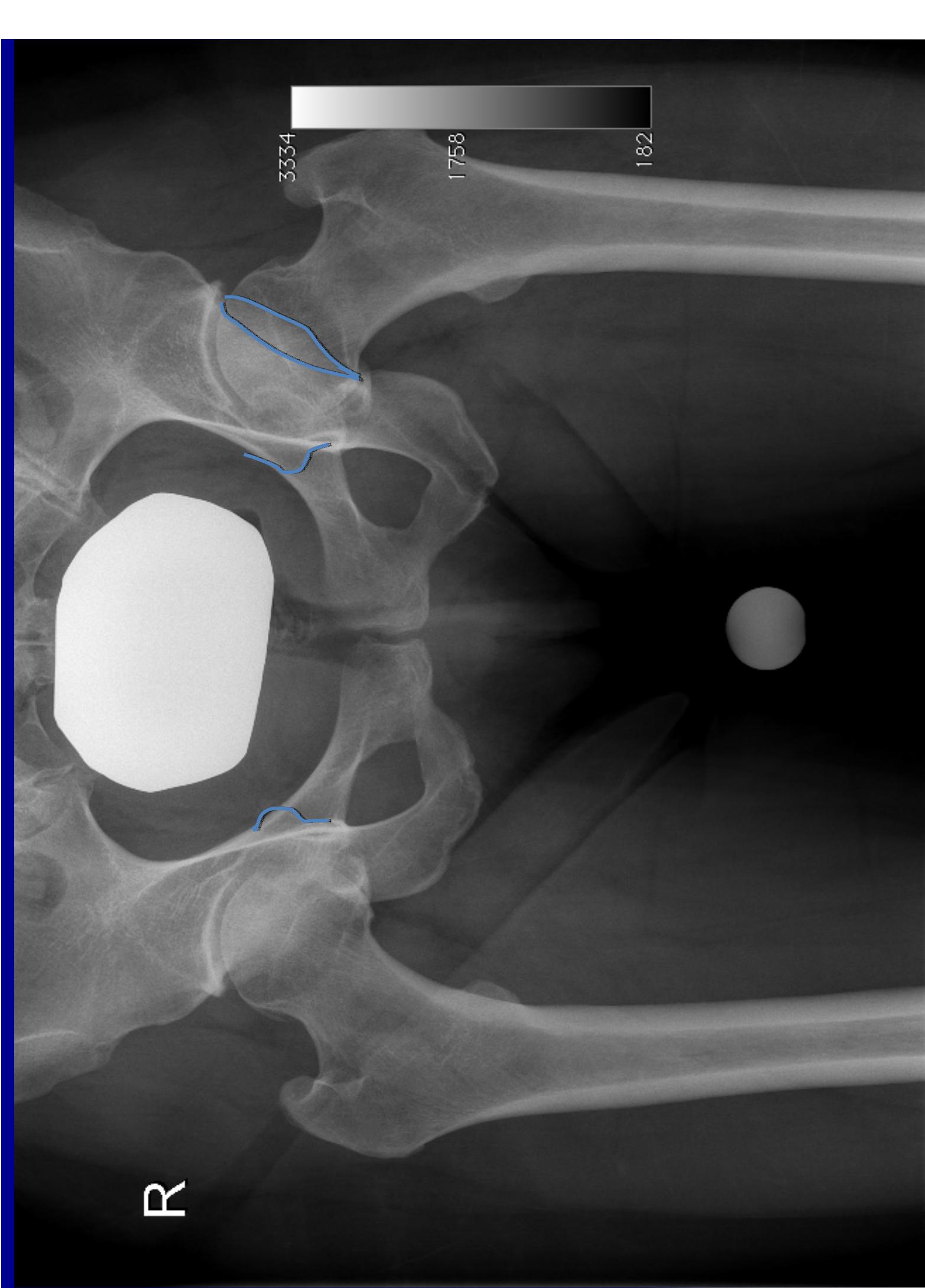
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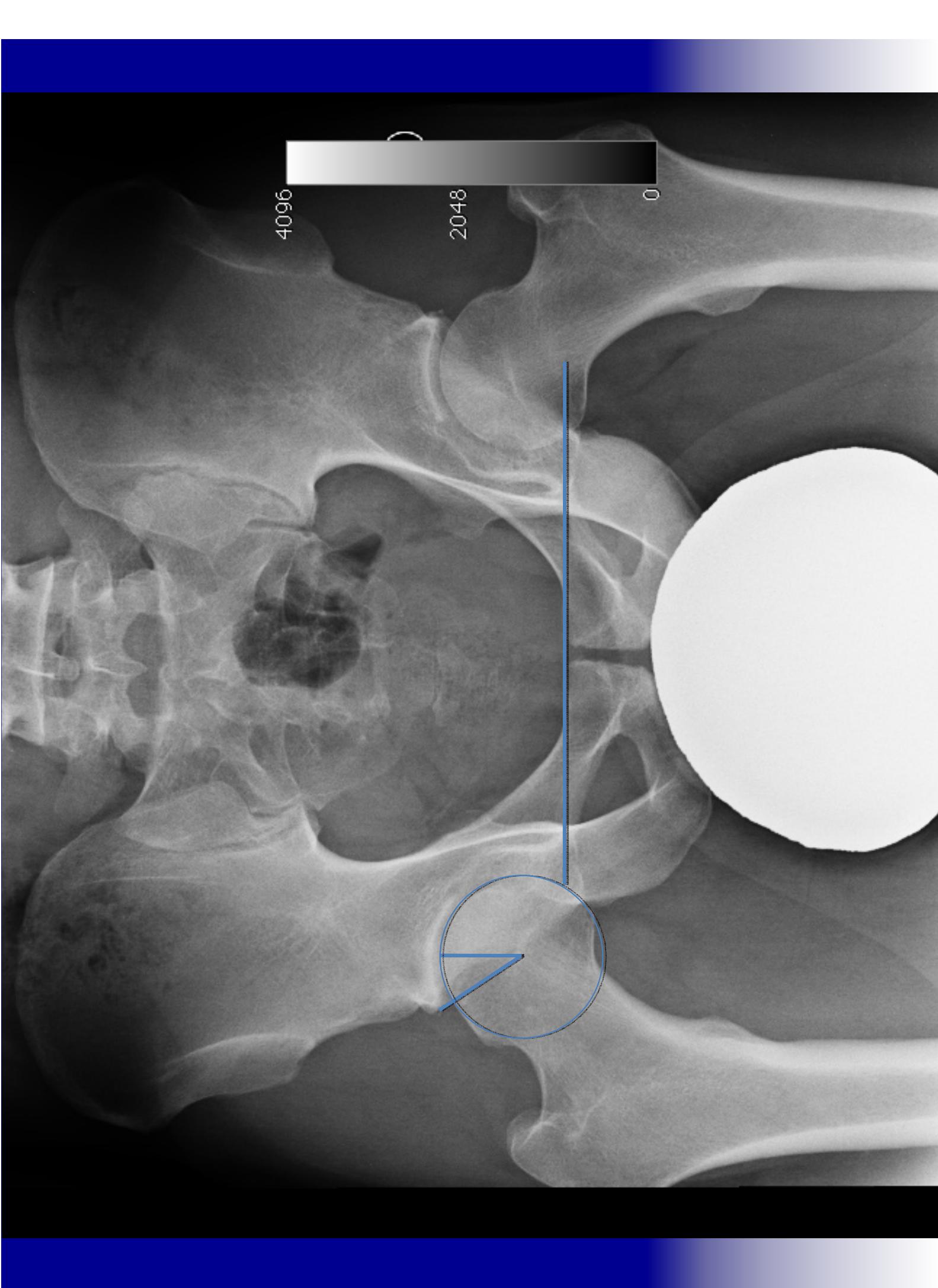




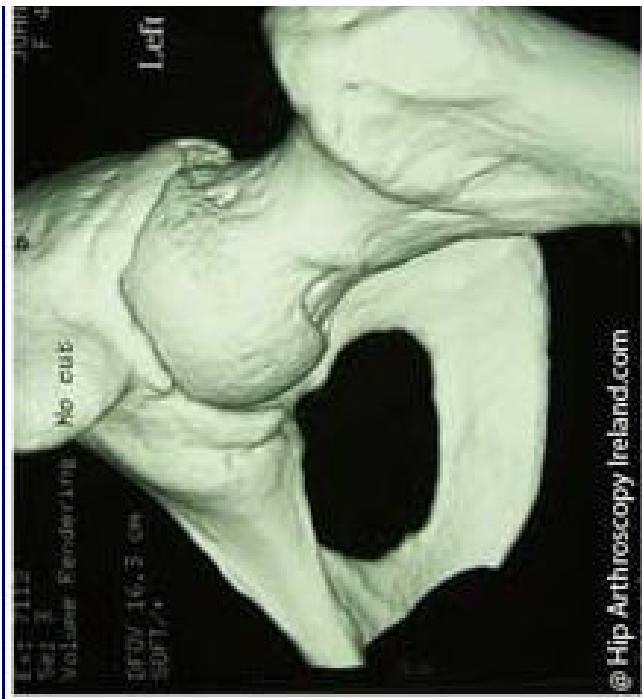








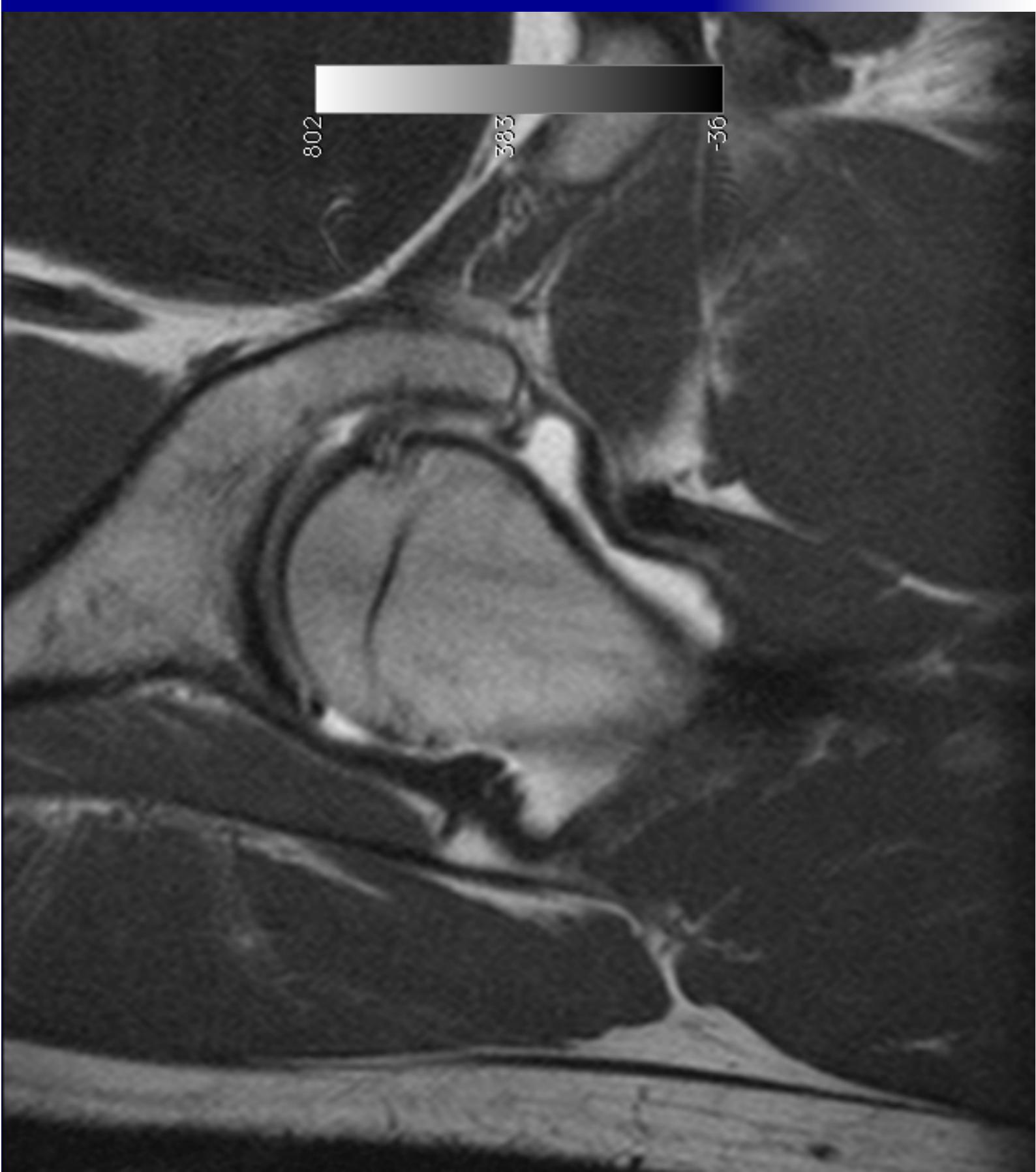
CT Scan



802

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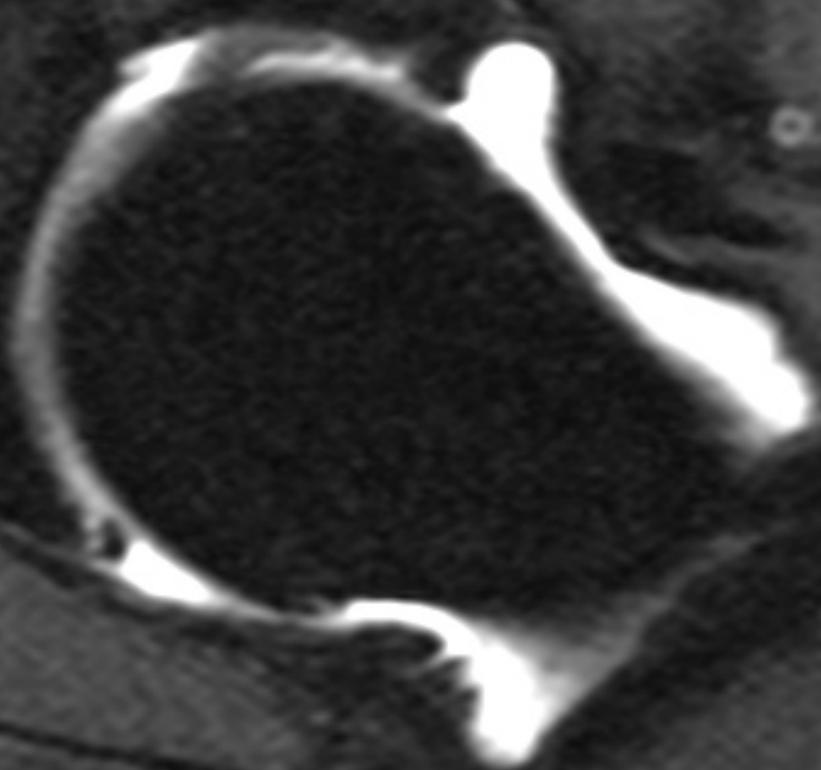
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171

-11



[Arthroscopy and arthroscopic surgery in a gas versus a fluid medium.](#)

Eriksson E, Sebik A.

Orthop Clin North Am. 1982 Apr;13(2):293-98.

PMID: 6896371 [PubMed - indexed for MEDLINE]

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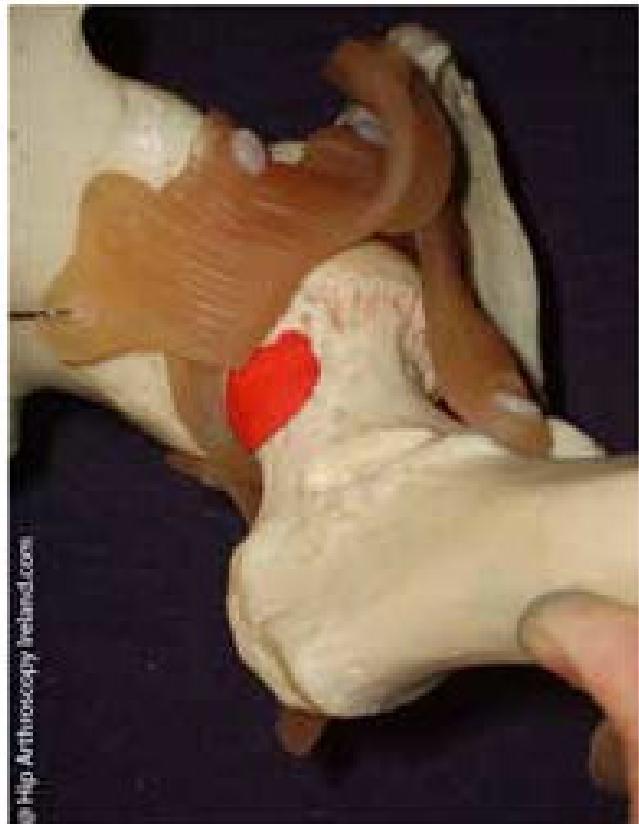


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No impingement with flexion, abduction and internal rotation



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Impingement of the femoral neck 'cam' with the acetabulum with flexion adduction and internal rotation



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