

Case conference

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History summary

- ✓ 19 y/o male, student
- ✓ 10 months ago, traffic accident --> left hip dislocation s/p close reduction ; right radial shaft fracture s/p ORIF
- ✓ Intermittent left hip pain with locking
- ✓ No limping gait, no resting pain

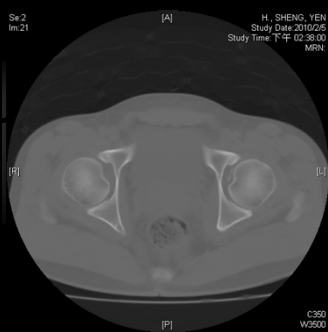
Physical examination

- ✓ Left medial groin area pain and tenderness, and pain was noted when flexion more than 100 degrees
- ✓ Left hip FADIR test: positive
- ✓ Left hip FABER test: negative
- ✓ Bilateral legs motor full

2009/6/30



2010/2/5



2010/5

Hsiao Sheng Yen
80-06-06 ♂
21347177
2010-05-11
10:37:06

Chang gung Memorial
Date: 2010-05-11 10:37:06



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Impression

- ✓ Left hip traumatic femoral head chondral injury with loose body
- ✓ Left hip anterosuperior labral tear
- ✓ Right radial shaft fracture s/p

-->arrange hip arthroscope on 7/8

Operative findings

- ✓ Left hip traumatic femoral head chondral injury with loose body (post-lat side of femoral head, sizing about 5x5x8mm)
- ✓ Lt hip anterosuperior labral tear with stable healing --> arthroscopic partial labrum debridement
- ✓ Partial tear of ligament teres



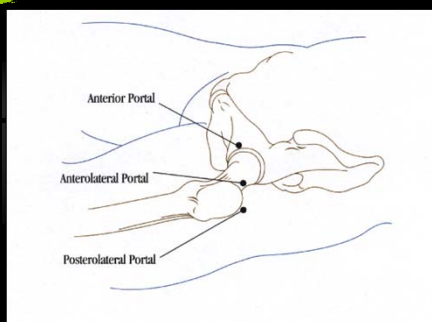
Discussion

Hip arthroscopy: Indication

- ✓ Debridement of labrum tears
- ✓ Removal of loose bodies (including synovial chondromatosis)
- ✓ Debridement of chondral lesion
- ✓ Resection of osteophytes
- ✓ Biopsy
- ✓ Synovectomy
- ✓ Femoroacetabular impingement

OKU9

Hip arthroscopy portal



Hip arthroscopy: complication

- ✓ Pudendal and sciatica nerve dysfunction
- ✓ Inadvertent damage to the articular surface of femoral head
- ✓ **Dr. Lo:** 12/73 (16.4%) mild scope trauma to femoral head; 5 (7%) transient sciatic neuropraxia

OKU9

Chang Gung Med J.2006

Injury Mechanism

- ✓ Hyperextension + Femoral external rotation is the most common injury pattern.

→ *Anterior labral tear*

- ✓ Axial loading of the hip in a flexed position.

→ *Posterior labral tear*

Physical Examination

- ✓ Pain elicited by internal rotation with joint Max. flexion (40%)



Physical Examination

- ✓ Pain elicited by external rotation with joint Max. flexion (30%)



Physical Examination

- ✓ Pain elicited by axial compression to the joint flexed 90° and slightly adducted (90%)



Physical Examination

- ✓ Tenderness posterior to the greater trochanter (80%)



Differential Diagnosis

- ✓ HIVD
- ✓ Avascular necrosis
- ✓ Iliopsoas bursitis
- ✓ Snapping hip syndrome
- ✓ Villonodular synovitis
- ✓ Synovial chondromatosis
- ✓ Stress fracture

MR Arthrography

- ✓ MRAr 91% accuracy
- ✓ MRI 36% accuracy

Czerny et al. Radiology 1996

Petersilgo et al. Radiology 1996

Labrum tear location -> Portal selection guide

Chan YS, Arthroscopy, 2005



Thanks for your attention!!