



Joint Preservation



- Subcapital reduction osteotomy
- Relative lengthening of femoral neck (Perthes)
- AVN surgery
 - Femoral osteotomy
 - Trap door technique
- FAI surgery
 - Hip Arthroscopy
 - Mini-open technique
 - Surgical dislocation
- Periacetabular osteotomy



Osteoarthrits: FAI



Femoro-Acetabular Impingement (FAI)

R. Ganz, Parvizi J, Leunig M. Clin Orthop 2003

Chronic anterior impingement causes damage to the acetabular rim and the adjacent acetabular cartilage



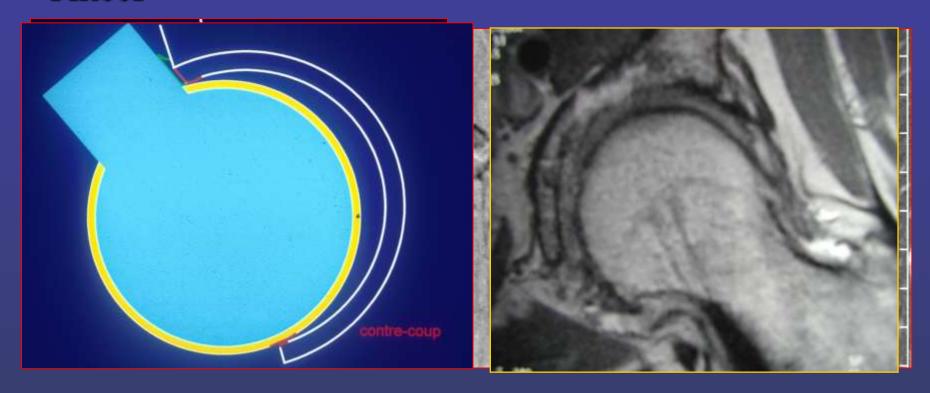


FAI: Types



Cam (Ito K. J Bone Joint Surg 2001)

Pincer





FAI: Treatment Options



Unsuccessful

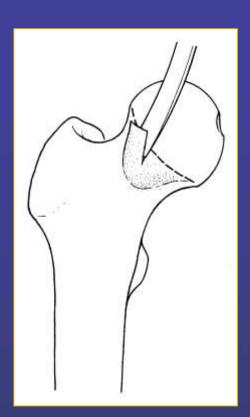
- Non-operative
 - NSAIDS
 - Activity modification
- Surgery
 - Surgical dislocation
 - Arthroscopy
 - Mini-open (direct anterior)
 - Redirectional osteotomy



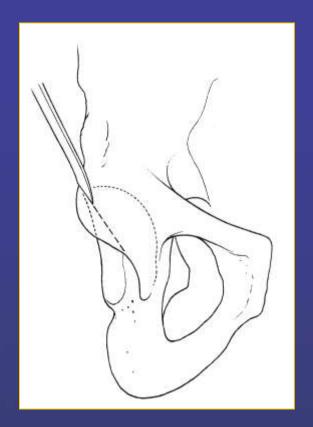
FAI: Treatment Goal



Femoral neck osteoplasty



Acetabular osteoplasty





Hip Arthroscopy

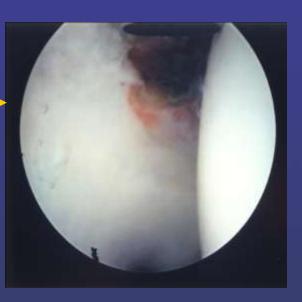


Numerous
Limitations
(currently)

Confined space
(Hip is not the knee or shoulder

Labral repair



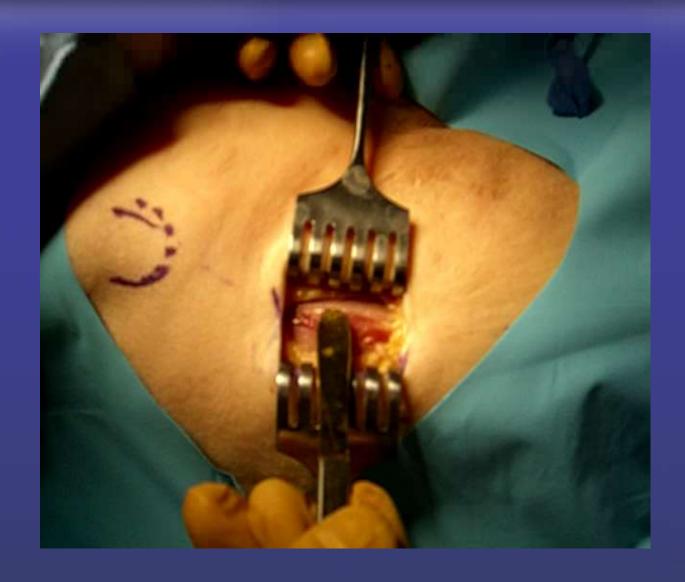






Surgical Treatment of FAI Mini-open Anterior Approach



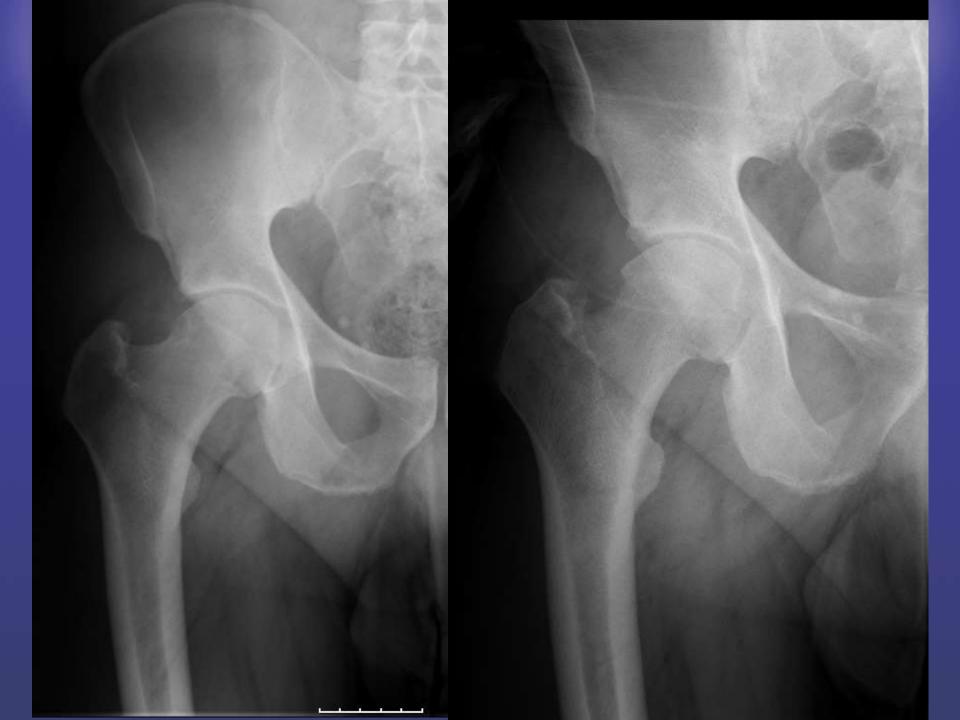


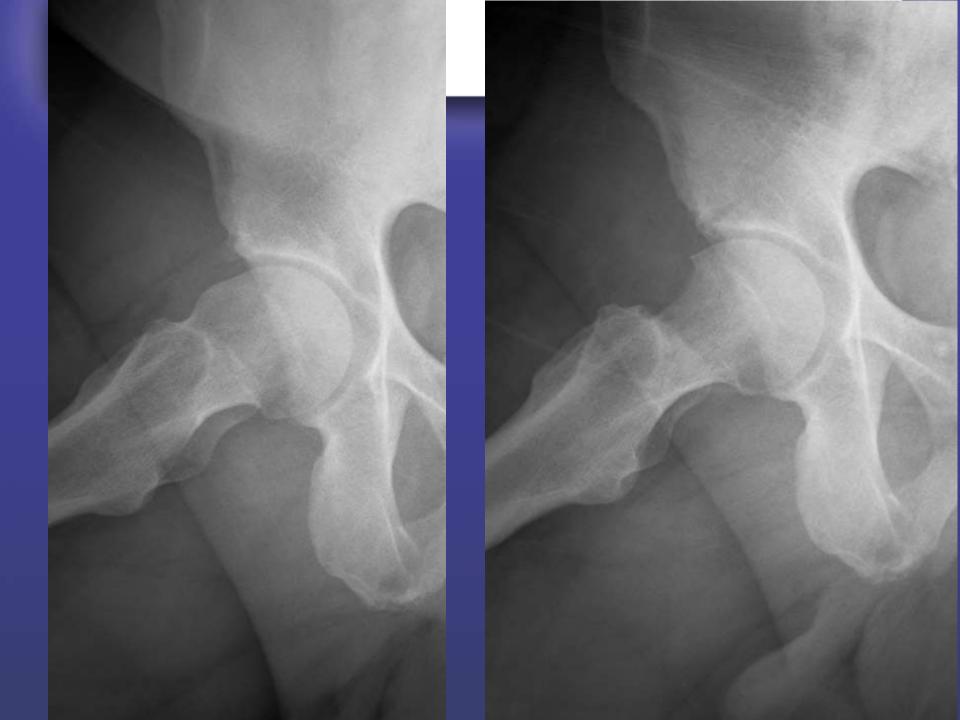


FAI: Mini-Open











Mini-open: Protocol



- Day surgery or overnight stay
- Oral analgesia
- 2 weeks of Crutches
- 6 weeks of "hip precautions"
- PT-ROM/strengthening starting at 4 weeks



Mini-open Osteoplasty



- Started 2005
- **>**500
- Average operative time = 51 minutes (32-90 minutes)
- Labral repair =398 cases
- Patient satisfaction
 - Return to sports

82% Excellent to Very Good outcome

Pain relief

4 conversions to THA

- Work
- No analgesia
- Modified Harris Hip Score/Sushi



Mini-open Osteoplasty Predictors of Failure



- Pre-existent arthritis
 - <3 mm of joint space (p<0.0001)</p>
 - Posteroinferios osteophyte (p<0.001)</p>
- Labral debridement vs repair (p<0.003)</p>
- Workman's comp (p<0.001)
- Previous surgery (arthroscopy)(p<0.05)</p>



Hip Pain In Young Adult



- 15 year girl
- LaCrosse player
- Constant groin Pain





DDH Presentation



- Groin Pain
- Subluxation of femoral head
- Reproduced with hyperextension/ER
- Labral pathology = catching, locking, giving way



DDH Preoperative Evaluation



- Plain radiographs
 - AP Pelvis
 - Lateral Hip
 - Abduction view (30/neutral)
 - False profile















DDH Preoperative studies



- CT arthrogram/3D
- MR-arthrogram
- GMERIC

Kim JBJS 2006



Dysplasia

Treatment Options



Acetabular Osteotomy



Femoral Osteotomy



Combined Osteotomy



Osteotomy Rationale



- Reorient the articulating surfaces
 - Increased joint congruity
 - Decrease load
 - Medialize hip center (lower JRF)

= reduced pain, possibly protect articular cartilage



Osteotomy

Indications



- Young patients with symptomatic hip dysplasia
 - Without excessive proximal migration of hip center of rotation
 - preserved ROM
 - Mild degenerative changes at most





















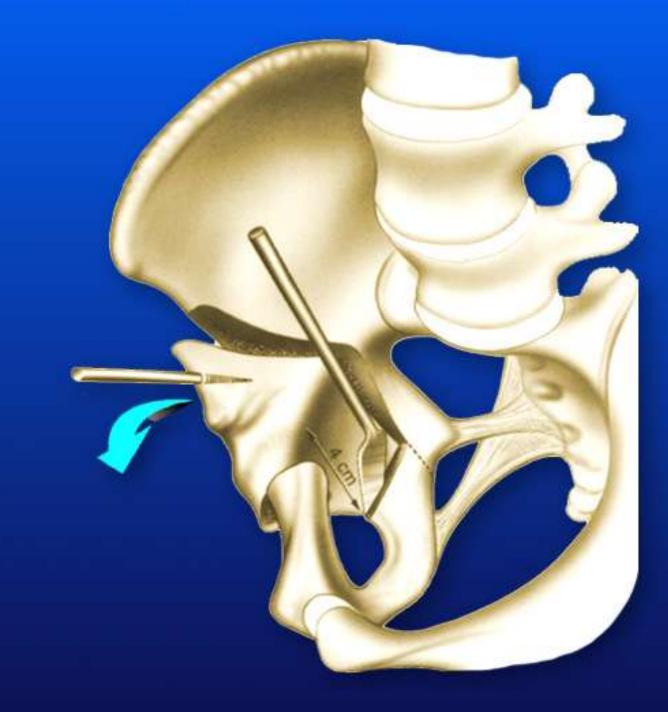












The Surgical Management of

HIP DYSPLASIA After Walking Age





PAO

Outcome



- **887 PAO**
- 42 THA
- Mean interval: 8.2 years
- 87% had grade II or III arthritis at PAO
- More than 10 years of symptom relief for 85%

Parvizi J. Ganz R.: Clin Orthop 2003

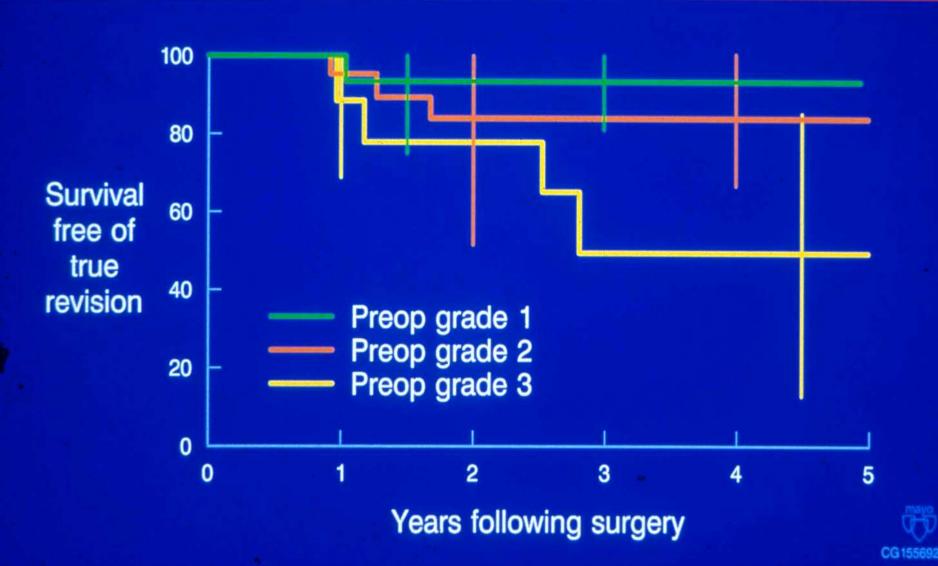


PAO Outcome



- Proficiency in correction
- Labral pathology
- Pre-existant arthritis

Survival Free of True Revision by Preop Grade

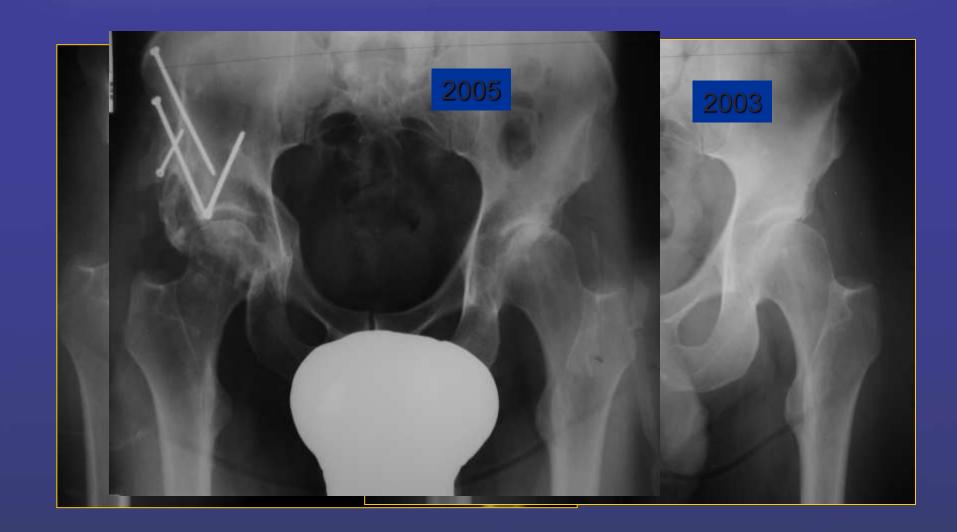




PAO















Благодарю за внимание