

Madrid, Spain

October 17-18, 2014

# Stryker Sports Medicine

**Progressive  
Hip Arthroscopy**

*Hip Arthroscopy:  
“back to the future”*

*Raul Zini*

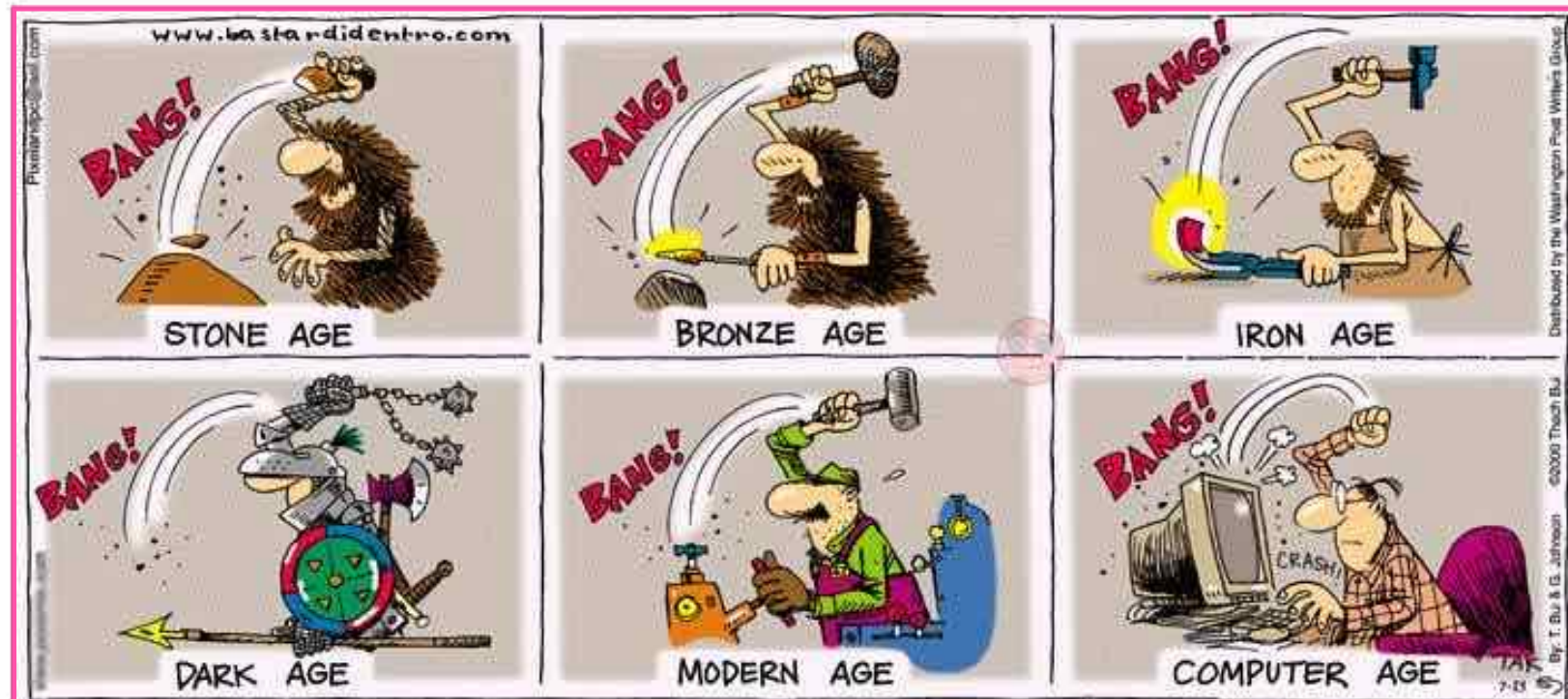


**Maria Cecilia Hospital  
Cotignola - Ravenna**





# from prehistory to the future age



**...not many years have gone by...  
since we started using arthroscopy to operate the  
hip...**

**....today it's an  
explosion.....  
and it's only the  
beginning...**

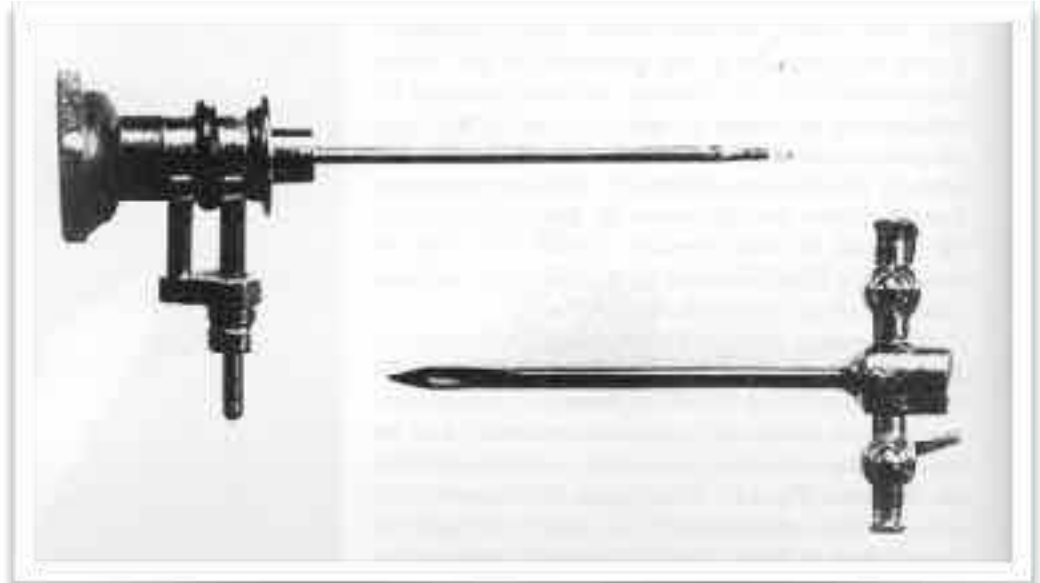


***“...the number of hip arthroscopies  
performed will double by 2013”***

**Dean K. Matsuda  
AAOS Now – August 2011 issue**



# The Prehistory



...HISTORY ON HIP ARTHROSCOPY DATES BACK FROM TIME IMMEMORIAL...

**Michael Burman**  
**1931**  
**New York**

First arthroscopic  
visualization on cadaver

20 hip joints



*“Visualization of the  
hip joint is limited to  
the intracapsular part  
of the joint”*



## Kenji Takagi 1939

### Tokyo

*First clinical application of hip arthroscopy*

#### 4 hips

- 2 Charcot Joints
- 1 Tuberculous arthritis
- 1 Suppurative arthritis



...AND THEREFORE IT WAS THE  
BEGINNING OF THE MIDDLE AGES...

# The Middle Ages





# The Renaissance

**M.Aignan**  
**1975**  
**France**

Meeting of I.A.A.  
Copenhagen

51 hips  
diagnostic  
arthroscopies  
biopsies

**R.Gross**  
**1977**  
**USA**

32 diagnostic  
procedures

Pediatric hip

**S.Holgersonn**  
**1981**  
**Sweden**

15 hip arthroscopies in  
15 children

Child Chronic  
Arthritis



**L. Johnson**  
**1986**  
**Lansing**

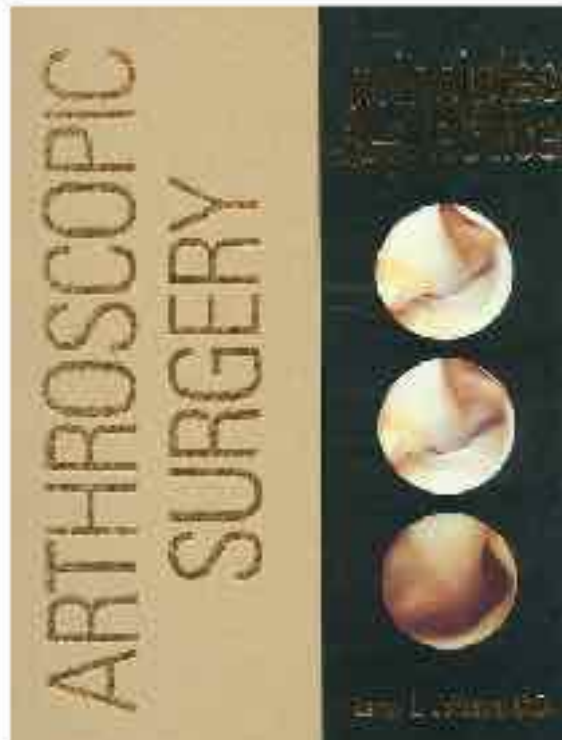
New hip arthroscopic  
technique

Hip distraction



**INDICATIONS**

- *diagnosis not established*
- *loose bodies*
- *inflammation*
- *bone spurs*
- *scar tissues*
- *arthritis*

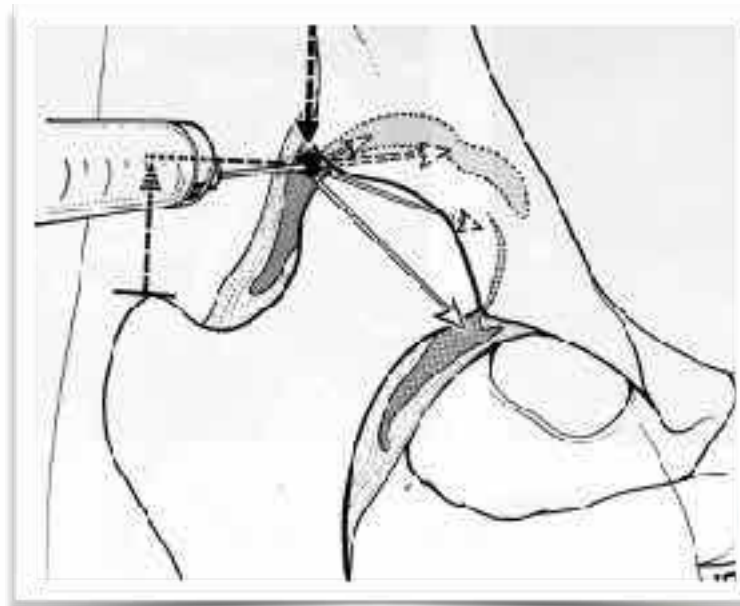
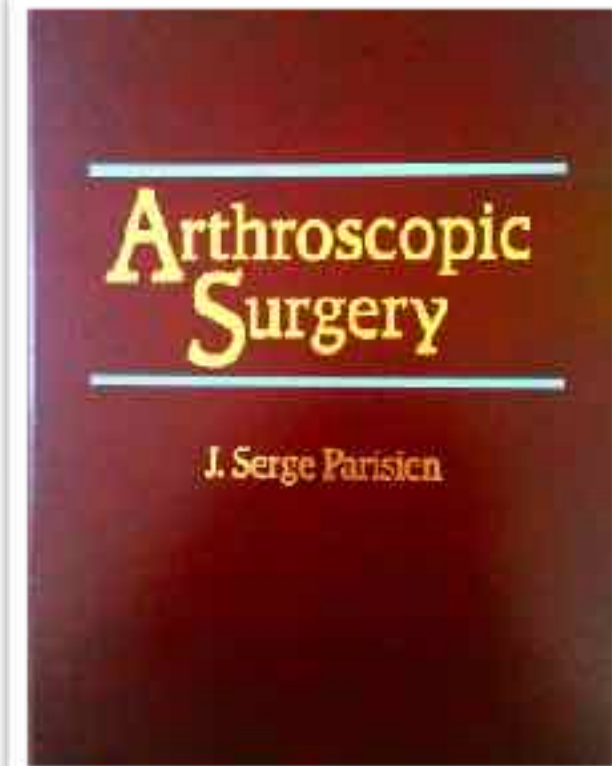


***“A surgical  
method and new  
instrumentation  
to reduce the  
present technical  
difficulties”***

**...IT WAS THE BEGINNING OF NEW  
AN STIMULATING PERSPECTIVES...**

## S. Parisien 1988 New York

- Chondral bodies
- localized degenerative arthritis
- osteochondritis dissecans of femoral head
- Pethes disease
- chondrolisis
- epiphisiolysis
- juvenile chronic synovitis

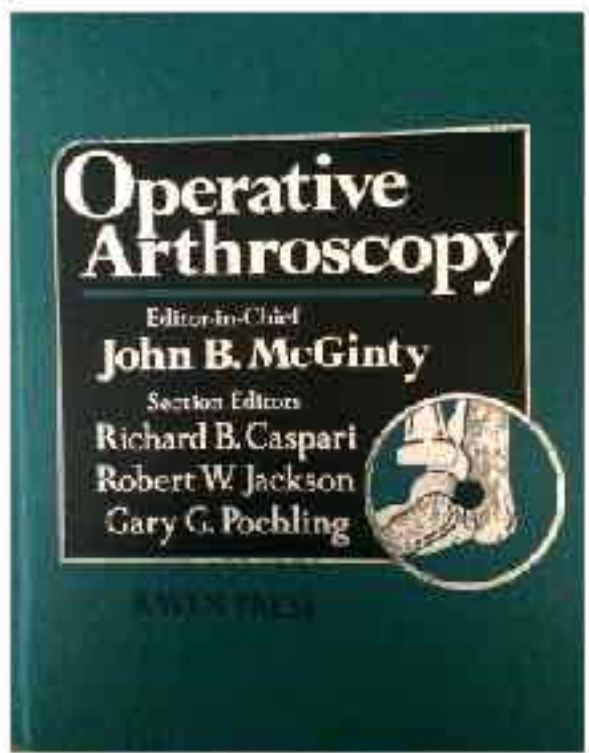


# The Modern Age

## J. Glick 1985 San Francisco

*Modified the procedure placing the patient in lateral decubitus position*

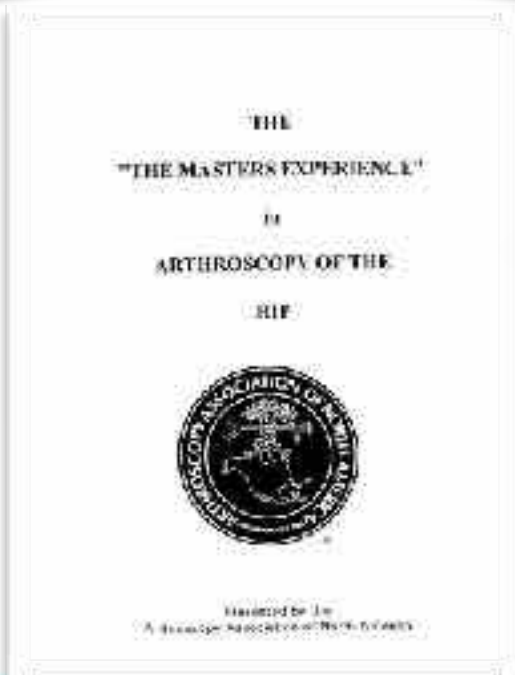




## J. Glick 1991

- Evaluation for unresolved hip pain
- Delaying arthroplasty in arthritic pain in young
- Removal loose bodies in traumatic hip dislocation
- Chondromatosis
- Extraction intraarticular cement in total hip replacement
- Removal torn acetabular labrum
- Removal impinging ligamentum teres
- Synviectomy in pigmented villonodular synovitis

...HIP ARTHROSCOPY BECAME A RELIABLE AND SAFE SURGERY...

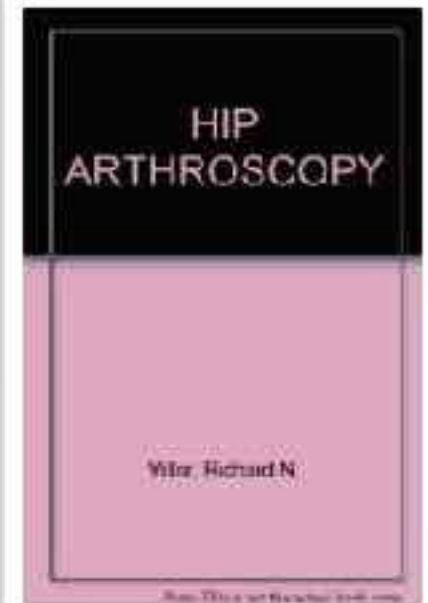


**ARTHROSCOPIC TROCHANTERIC BURSECTOMY AND ILIOTIBIAL BAND RESECTION**  
JAMES M. GLICK, M.D.

**ARTHROSCOPIC ILIOPSOAS TENDON RELEASE**  
JAMES M. GLICK, M.D.

# R.Villar 1991 Cambridge

- First in Europe
- Lateral Position

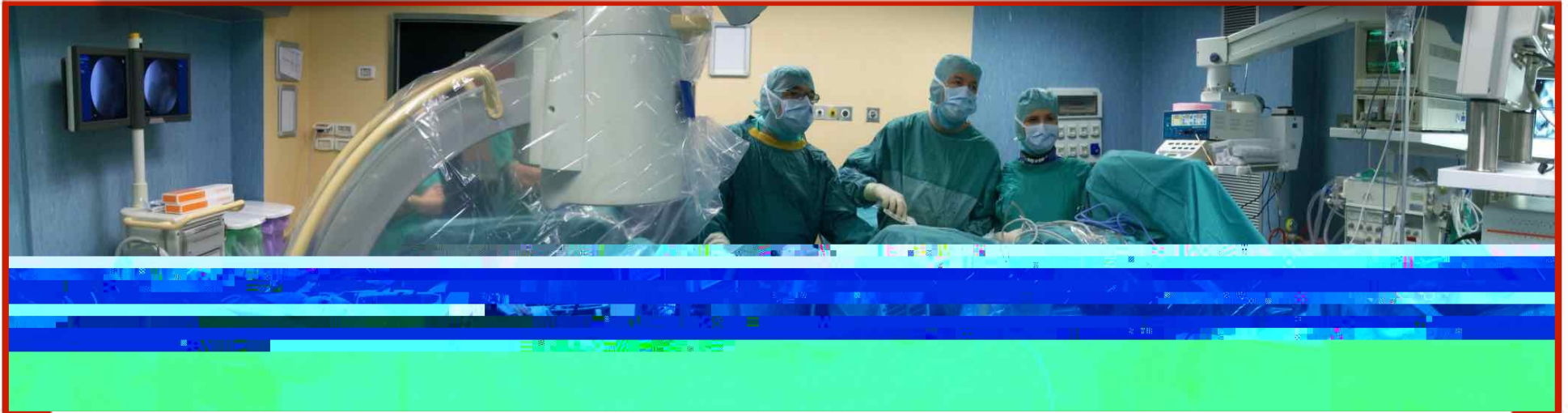


# Mohamed Aslam Manchester

Supine Position



...DURING 90'S THERE WAS A CONTINUOUS  
TECHNOLOGICAL EVOLUTION...



...NEW TOOLS OFFERED NEW POSSIBILITIES...



...AND HIP ARTHROSCOPIC TECHNIQUE GREW RAPIDLY...



AT THAT TIME... ONLY A FEW OF US  
BELIEVED IN HIP ARTHROSCOPY...ENTHUSIASTIC OF THE  
TECHNIQUE...BUT DOUBTFUL ON THE FUTURE DEVELOPMENT



**A SPECIFIC  
QUESTION GAVE  
US A HARD TIME :**

**HOW MANY  
CASES HAVE  
“*REALLY*”  
INDICATION TO  
HIP  
ARTHROSCOPY?**

# R. Ganz 2003

## Bern

Femoro-Acetabular  
Impingement  
(F.A.I.)

HIP DYSPLASIC CONDITION



FEMORO-ACETABULAR  
IMPINGEMENT



DAMAGE OF ACETABULAR LABRUM  
AND CARTILAGE



PROGRESSIVE DEGENERATIVE  
EVOLUTION



# T. Sampson 2004 San Francisco

- Lateral decubitus
- Arthroscopic treatment of FAI



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Operative Techniques in  
Sports Medicine

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## Hip Morphology and Its Relationship to Pathology: Dysplasia to Impingement

Thomas G. Sampson, MD

GVM  
CARE & RESEARCH

# M. Dienst 2001

## Homburg

New Accessory Portals  
for Peripheral Space

### Hip Arthroscopy Without Traction: In Vivo Anatomy of the Peripheral Hip Joint Cavity

Michael Dienst, M.D., Stefan Gödde, M.D., Romain Seil, M.D., Dietrich Hammer, M.D.,  
and Dieter Kohn, M.D.



# M. Leunig Zurich

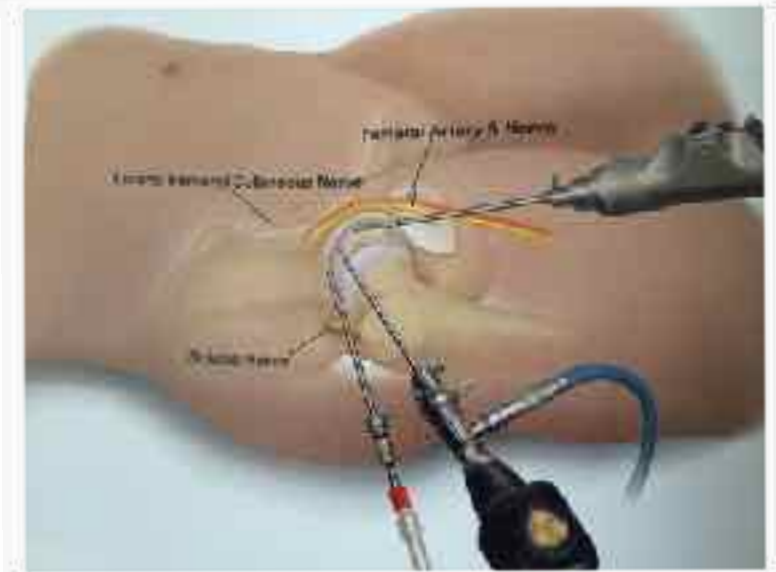
The Heir of Ganz



# T. Byrd Nashville

Supine Position  
3 portals technique

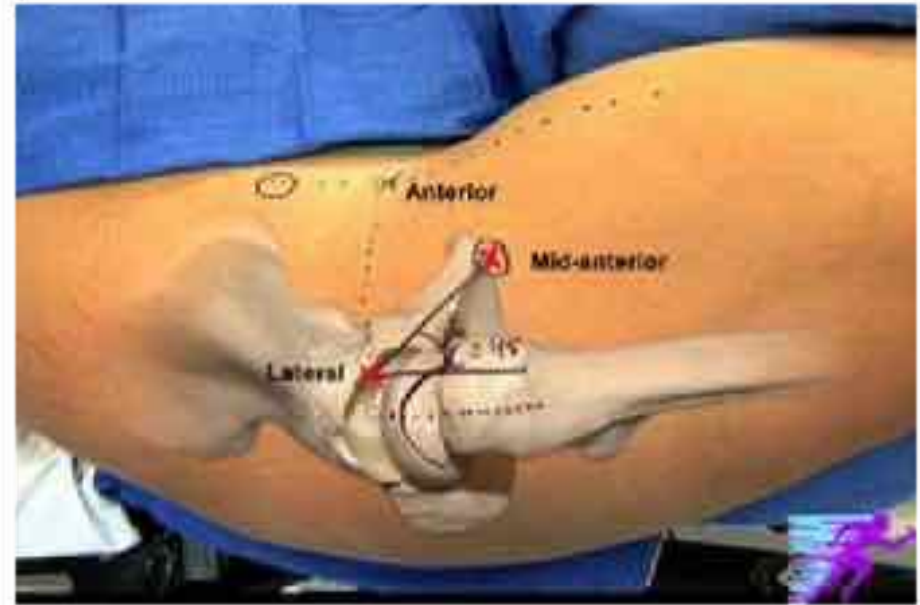
- Antero-lateral
- Anterior
- Postero-lateral



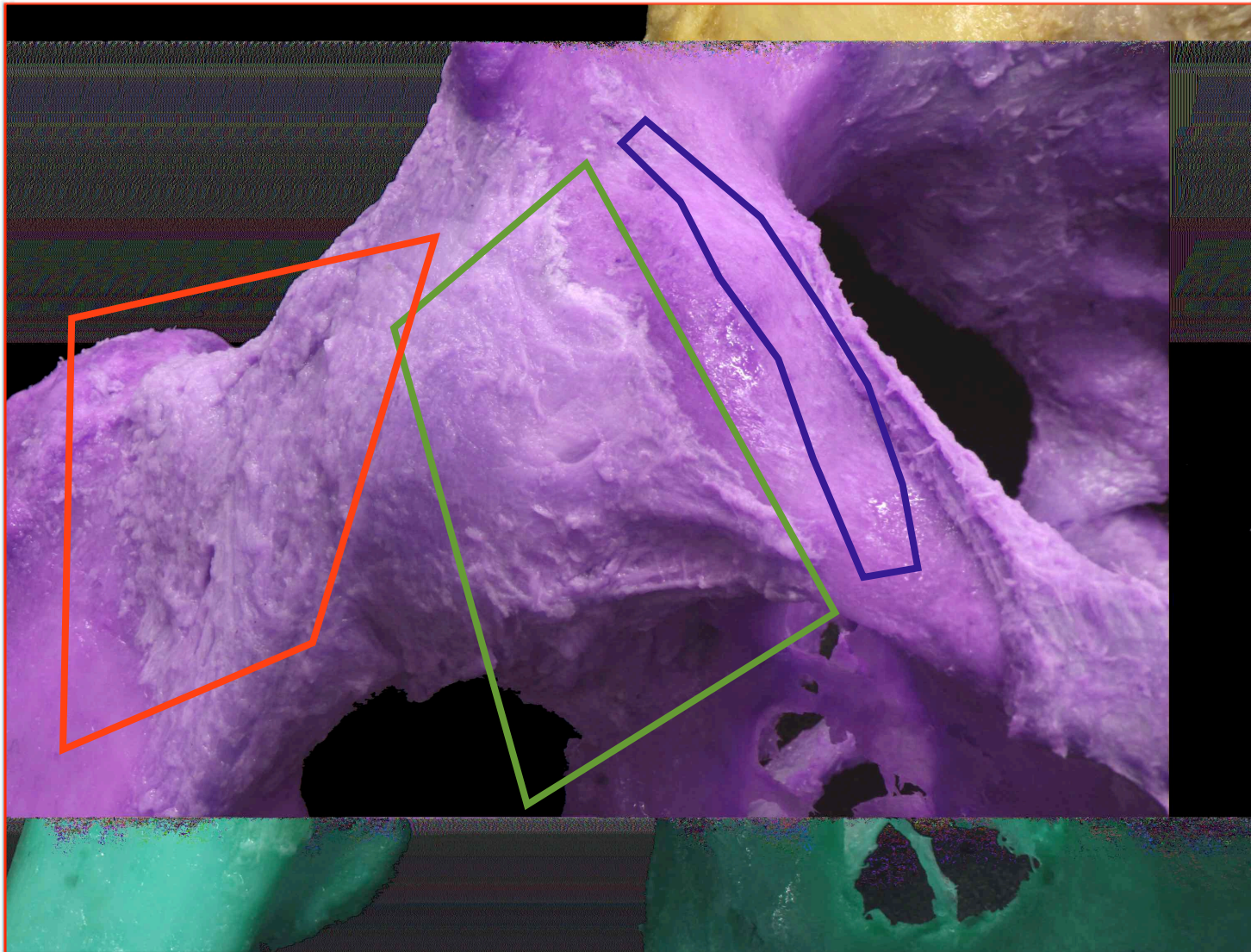
# M. Philippon Vail

## 2 Portals Technique

- Antero-Lateral
- Mid-Anterior



# PROGRESSIVE INCREASE OF INDICATIONS



3 DISTINCT  
COMPARTMENTS

**CENTRAL  
COMPARTMENT**

**PERIPHERAL  
COMPARTMENT**

**LATERAL  
COMPARTMENT**



# CURRENT INDICATIONS



- F.A.I.
- LABRAL TEARS
- LOOSE BODIES
- CHONDROMATOSIS
- TRAUMATHOLOGY
- CHONDROPATIES
- SINOVITES
- SEPSIS
- EXTERNAL SNAPPING HIP
- TROCHANTERIC BURSYTIS
- TERES TEARS
- ILIO-PSOAS IMPINGEMENT
- PERTHES DISEASE
- EPIPHYSIOLISIS
- ABDUCTORS TENDINOPATHIES
- ADHESIVE CAPSULITIS
- INSTABILITY
- SPACE AROUND THE HIP

OUR TRIP FROM THE DARK AGES TO MODERN TIMES ENDS HERE

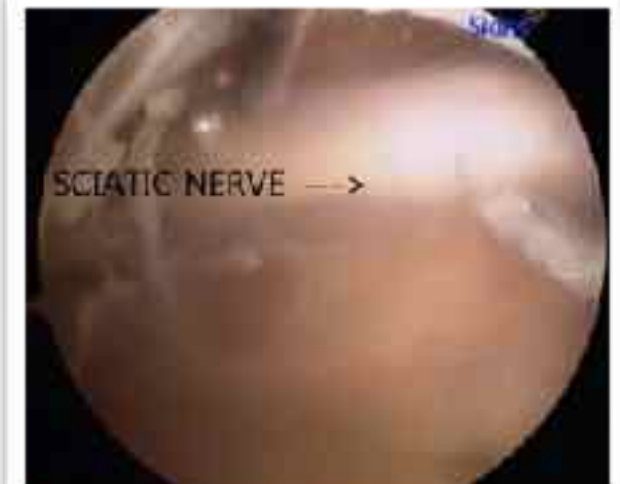
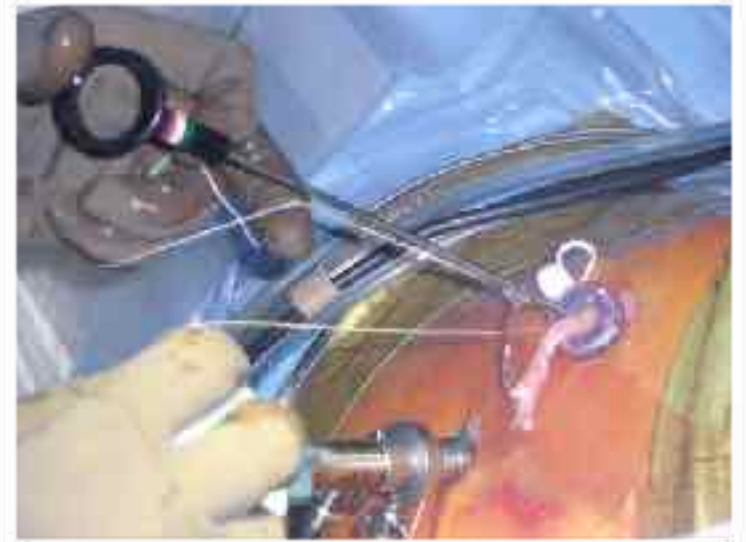


Today

# The Future Age

## ***NEW TECHNIQUES***

- labral reconstruction
- abductors tendon repair
- bio-technologies in cartilage treatment
- space around the hip  
...and much more!!!



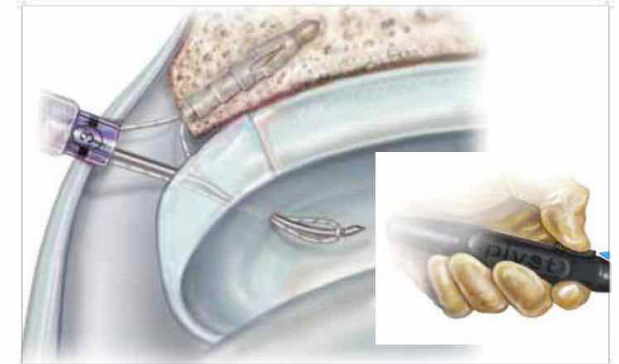
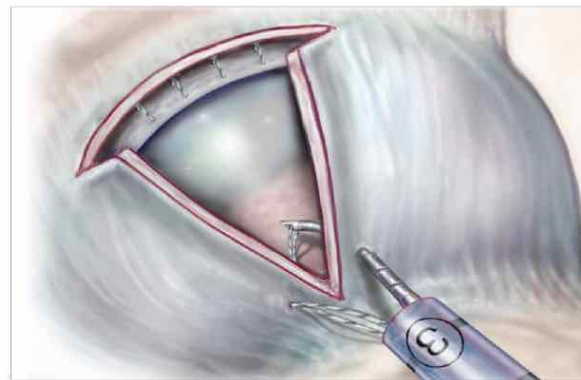
# The Future Age

## *TECHNOLOGICAL EVOLUTION*

- bio-technologies
- new instruments



**pivot**  
MEDICAL  
A Stryker Sports Medicine Company





...and it will be with nostalgia that we shall remember the times, not far but not too close, where “to see into the hip” was only a fantastic dream... very difficult to realize.....

# THANKS FOR YOUR ATTENTION



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**GVM**  
CARE & RESEARCH