

# 7th Advanced Course on Knee Surgery

## Val d' Isère January 2018

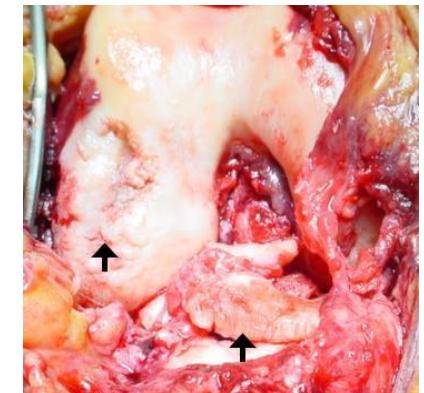
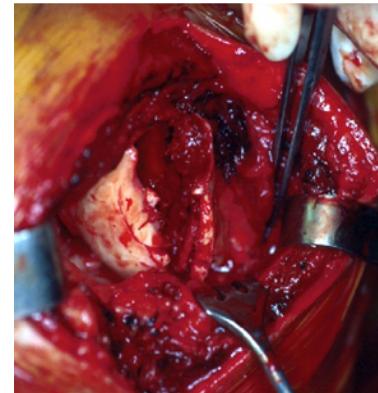
### ***Atraumatic localized osteochondral lesion***

*S. Lustig, C Batailler, Ph Neyret, E Servien,*

Service de chirurgie orthopédique  
Hôpital Universitaire de la Croix Rousse - LYON

# Tears - Etiology

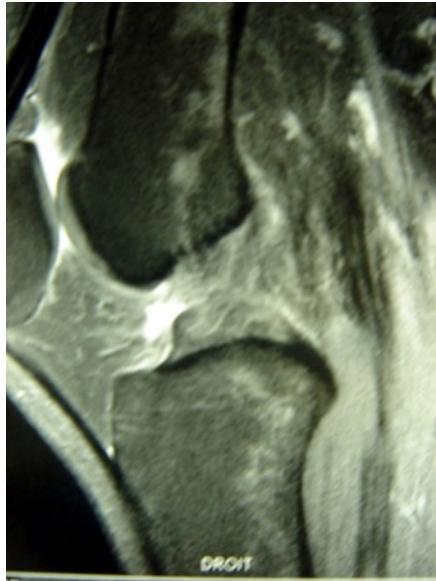
- Traumatism ++
  - articular fracture



# Tears - Etiology



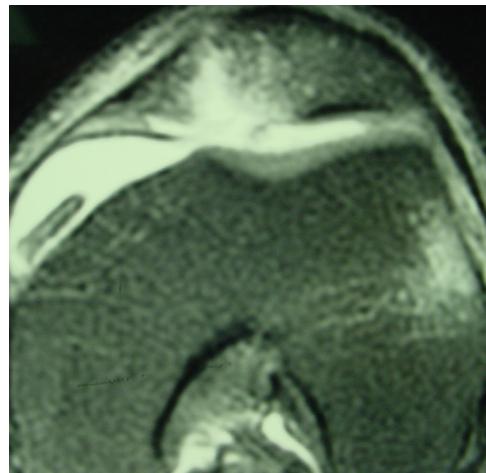
- **Traumatism ++**
  - articular fracture
  - ACL injury



# Tears - Etiology

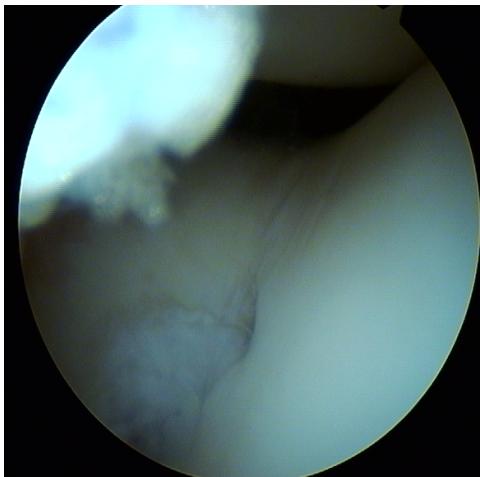
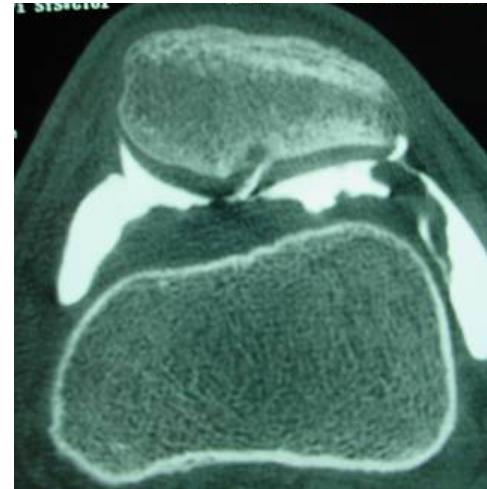
## ➤ Traumatism ++

- articular fracture
- ACL injury
- EPD



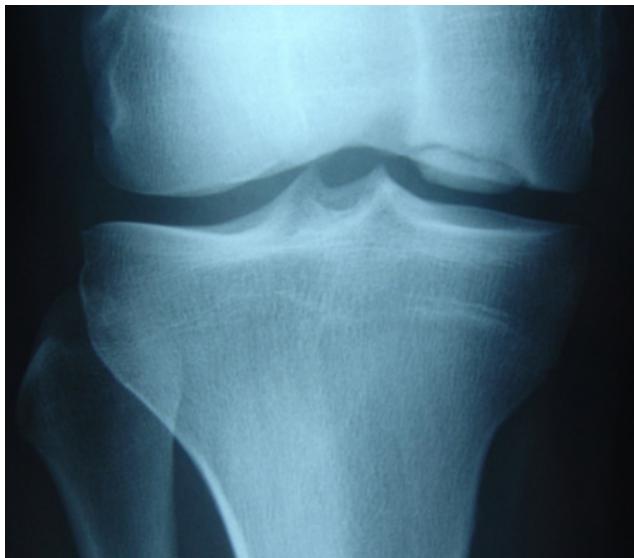
# Tears - Etiology

- Traumatism ++
- Micro-traumatism



# Tears - Etiology

- Traumatism ++
- Micro-traumatism
- OD



# Tears - Etiology

- Traumatism ++
- Micro-traumatism
- OD
- **iatrogenic**



Seil R., Kohn D, et al. Chondral lesions after arthroscopic meniscus repair using meniscus arrows.  
Arthroscopy. Oct 2000.

# Tears - Etiology

- Traumatism ++
- Micro-traumatism
- OD
- Iatrogenic
- ... **Osteoarthritis**



Unipolar lesions



Kiss lesions



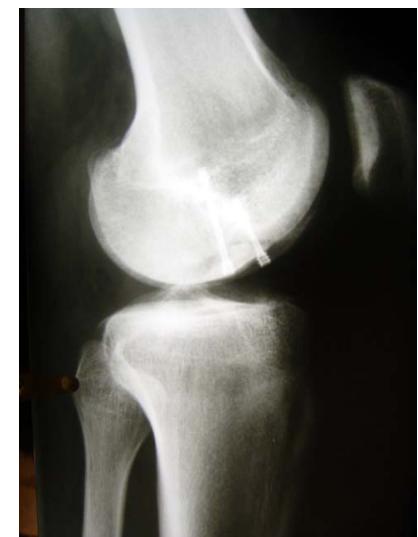
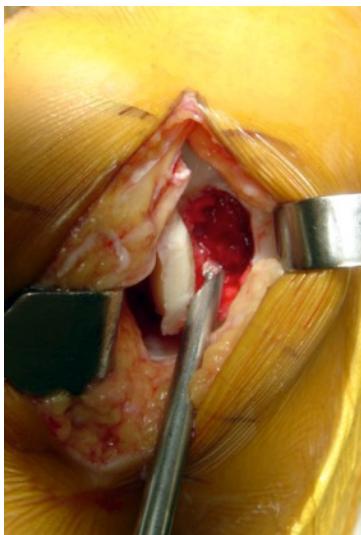
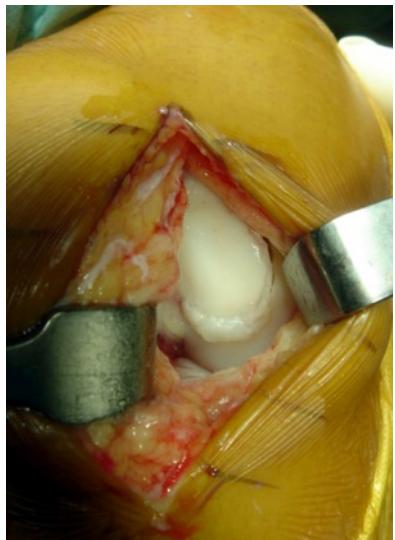


# Treatments

- Fixation
- Subchondral bone stimulation
- Osteochondral Autografts
- Osteochondral Allografts
- Chondral grafts
  - ACI
  - MACI

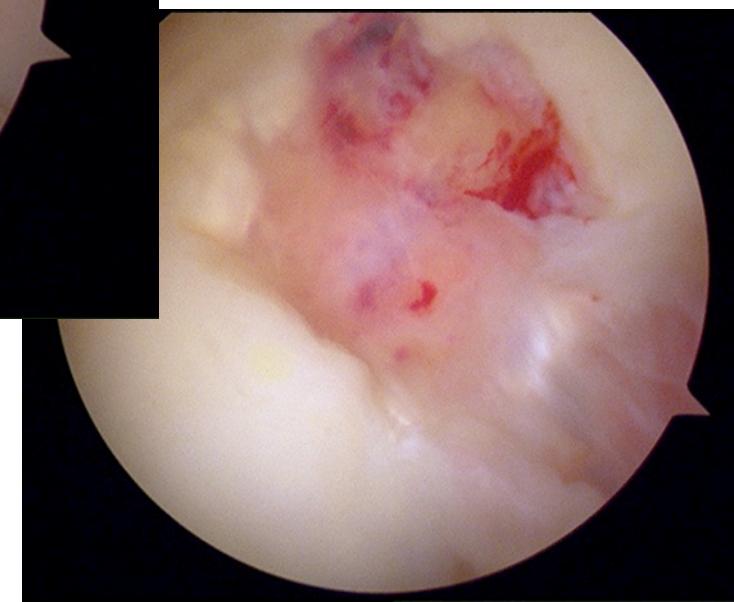
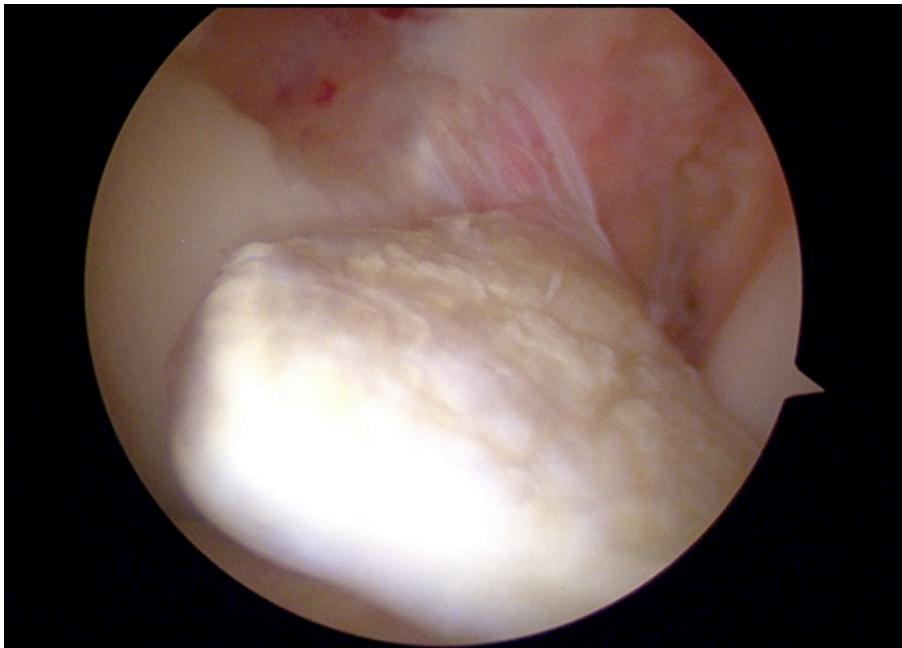
# Treatments

## ➤ Fixation



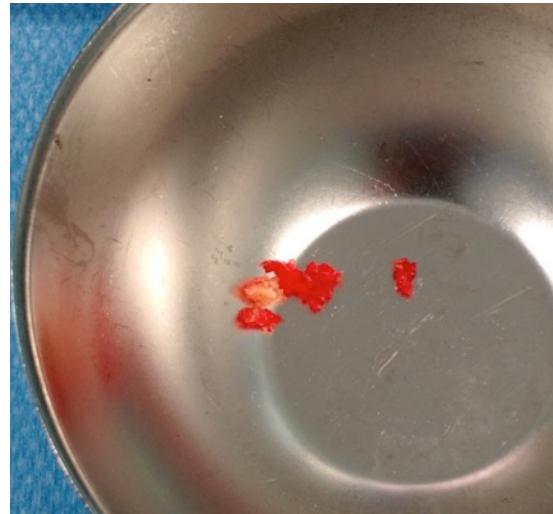
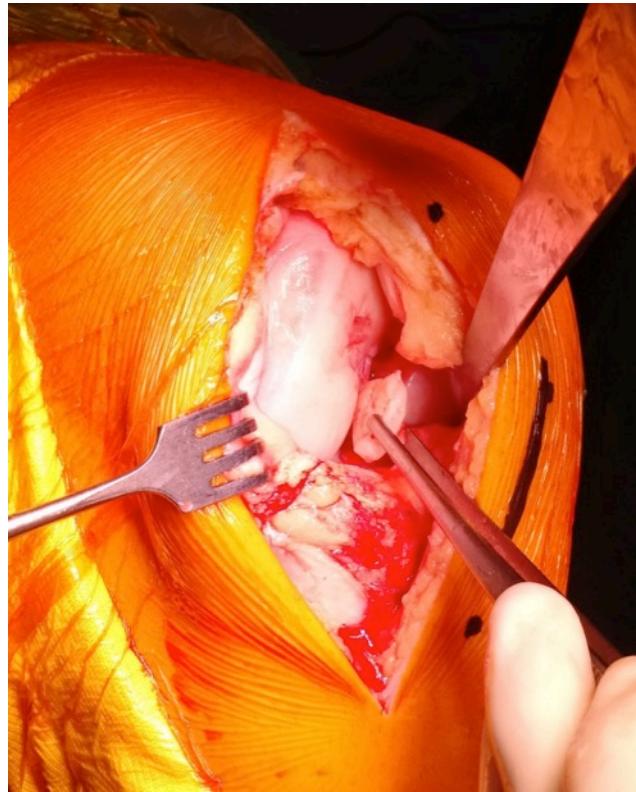
# Treatments

## ➤ Fixation



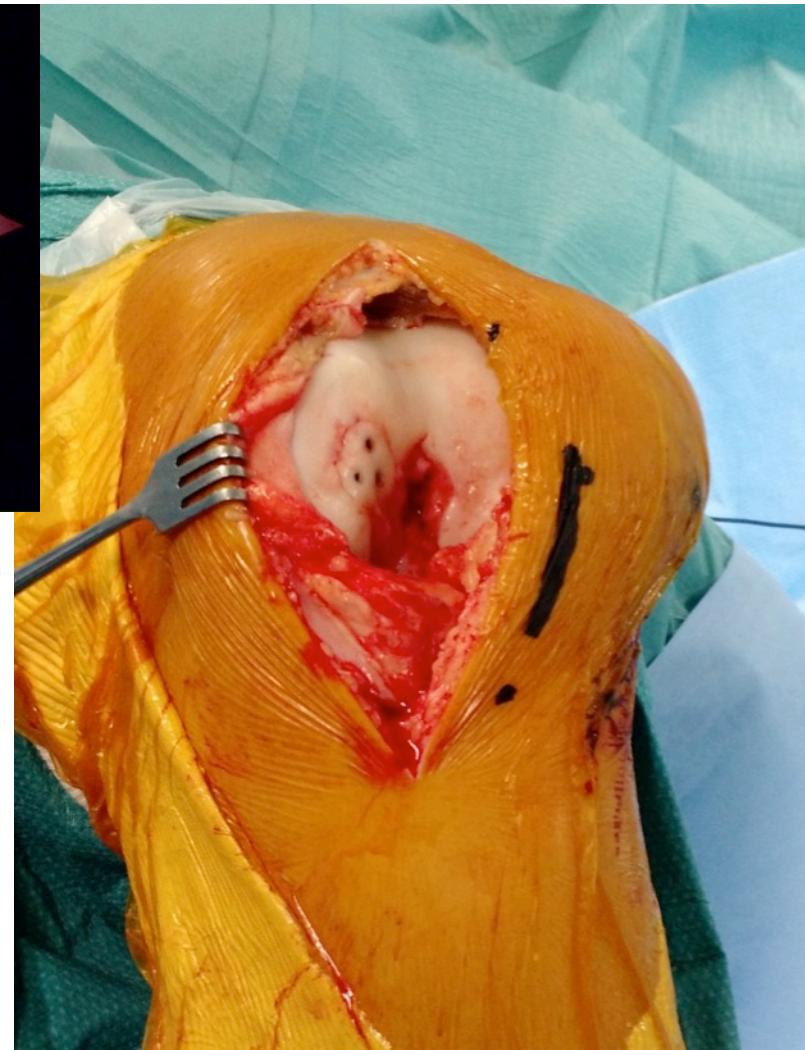
# Treatments

## ➤ Fixation



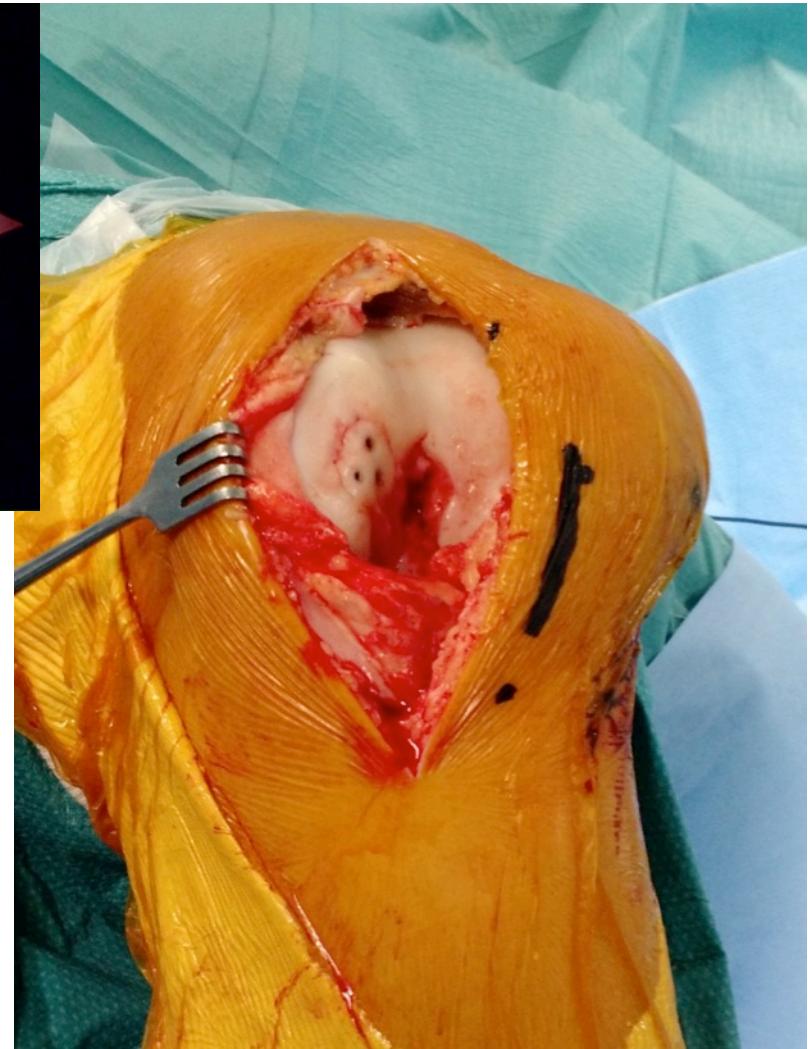
# Treatments

➤ Fixation



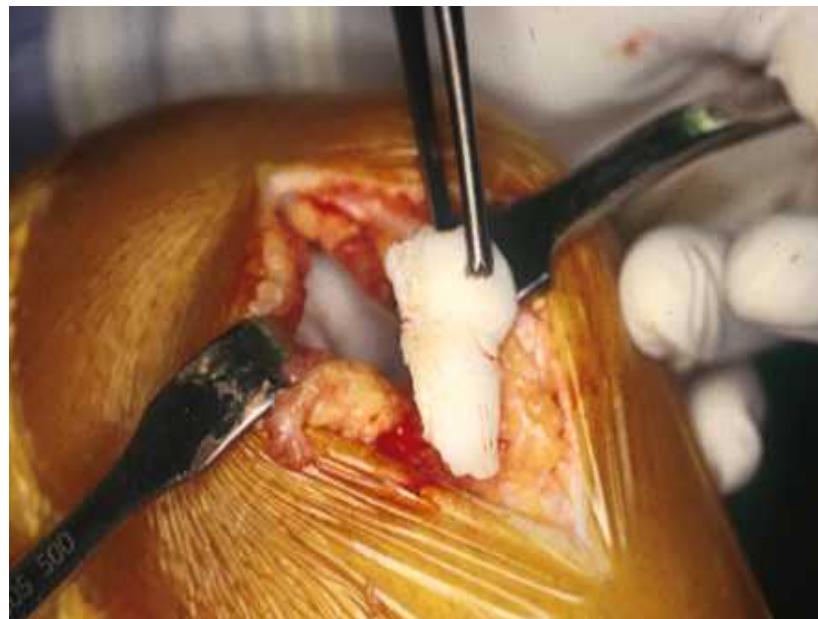
# Treatments

➤ Fixation



# Treatments

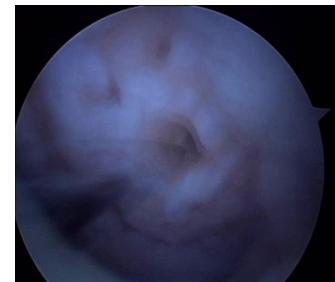
- Fixation vs ablation « debridment »



# Treatments ?

- Fixation
- Subchondral bone stimulation

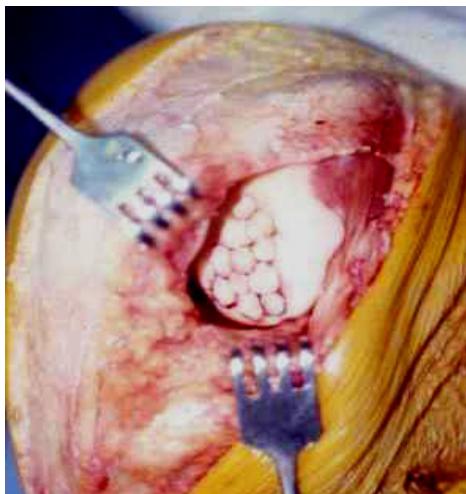
- **Perforations** (*Pridie*)
- **Microfractures** (*Steadman*)
- **Abrasions** (*Johnson*)



# Treatments ?

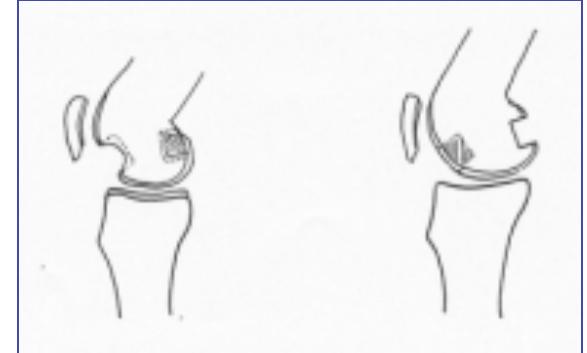
- Fixation
- Subchondral bone stimulation
- **Osteochondral Autografts**

« Mosaicplasty »



With R jakob in Lyon 1999

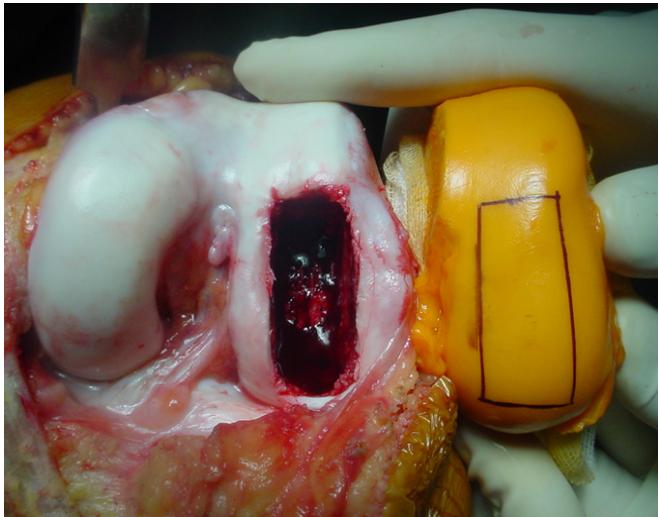
« bloc»



- Wagner (*Posterior condyle*)
- Outerbridge (*patella*)

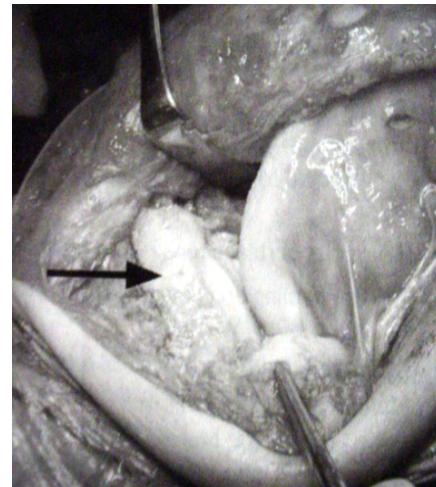
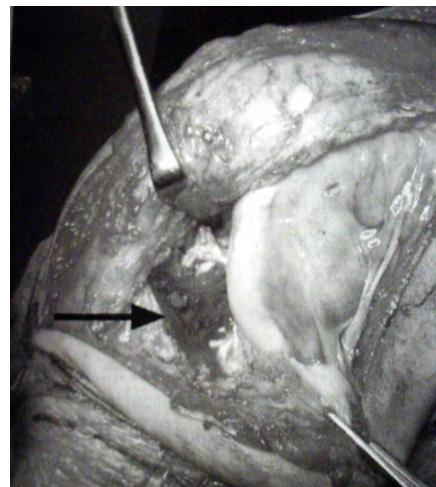
# Treatments

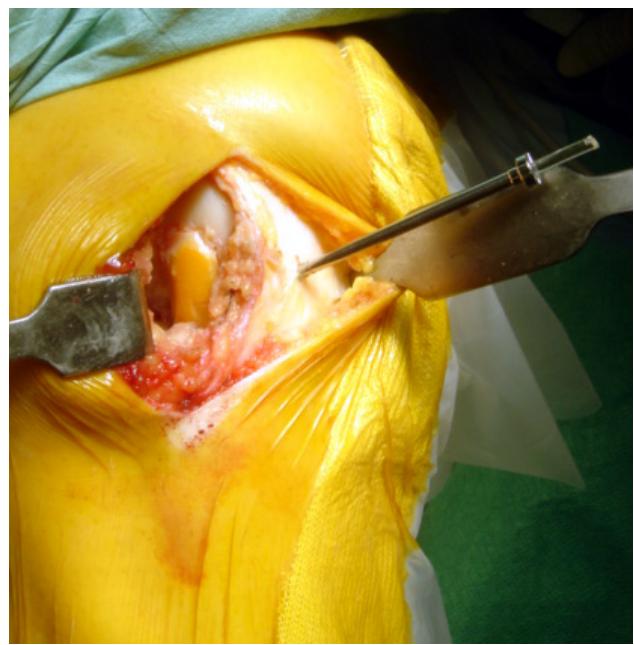
- Fixation
- Subchondral bone stimulation
- Osteochondral Autografts
- **Osteochondral Allografts**



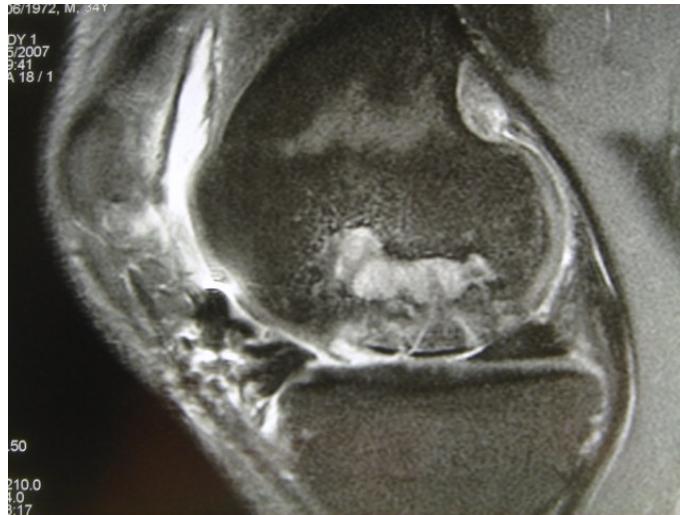
# Treatments

## ➤ Allograft (*tibia?*)





# 3y Follow up...



# Treatment

- Fixation
- Subchondral bone stimulation
- Osteochondral Autografts
- Osteochondral Allografts
- Chondral grafts
  - ACI

**ACI**  
*(Autologous Chondrocytes Implantation)*

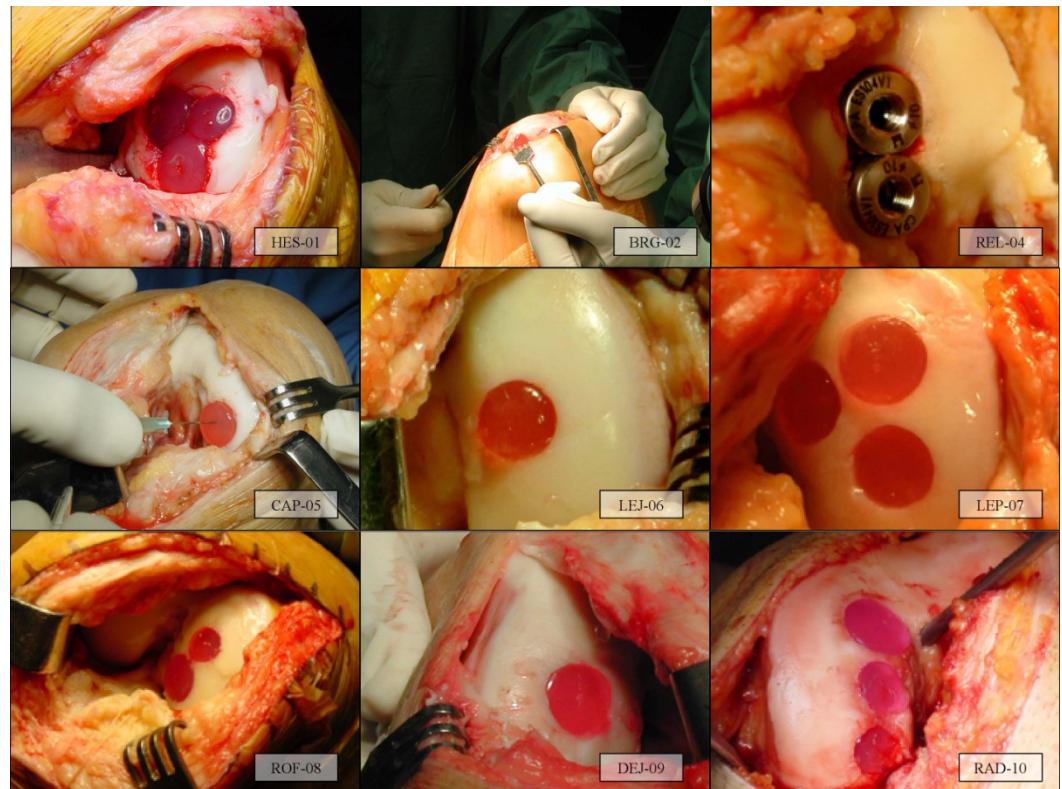


 **Culture** 

# MACI

- Fixation
- Subchondral bone stimulation
- Osteochondral Autografts
- Osteochondral Allografts
- Chondral grafts
  - ACI
  - MACI

*MACI*  
*(Matrix Autologous Chondrocytes  
Implatation)*





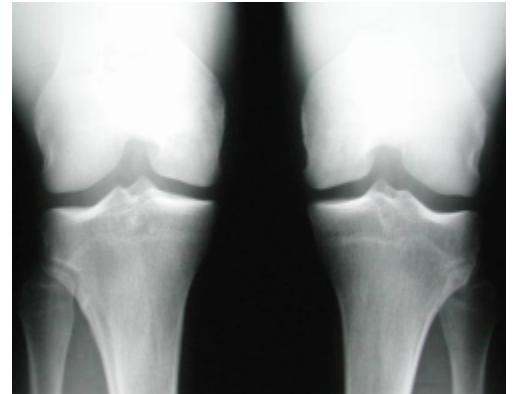
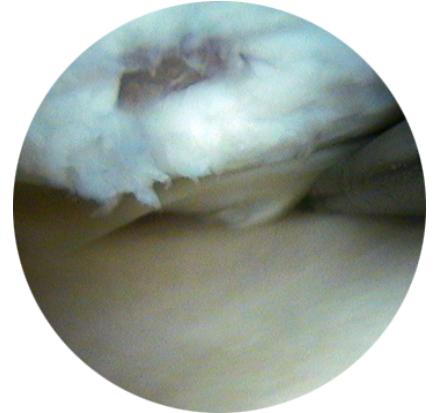
# Indications : Fixation

- OCD childhood ++
- Traumatic tears
- Stable synthesis
- «Mosaïc» fixation
- Associated tears



# Indications : Reparation

- Stage (3) 4
- Surface > 1 cm<sup>2</sup>
- Age < 40
- Condyle ++
- No mirror tears
- Safe meniscus
- Stable knee



# Indications : Technique

## ➤ Age

Reparation

40 y

Microfractures  
Osteotomy  
Arthroplasty

## ➤ Surface



Mosaicplasty

4 cm<sup>2</sup>

MACI  
Allograft  
Mosaic. Allog.



## ADVANCED COURSE: REVISION KNEE ARTHROPLASTY



20 - 22  
SEPTEMBER  
2018

LYON CONVENTION CENTRE



LYON KNEE  
SCHOOL SURGERY

### REGISTRATION: MCO CONGRÈS

Contact: Audrey MARTIN  
Email: audrey.martin@mcocongres.com  
Phone: +33 (0)4 95 09 38 00

### INTERACTIVE SESSIONS

SIMULTANEOUS TRANSLATION

[www.lyon-knee-congress.com](http://www.lyon-knee-congress.com)

