



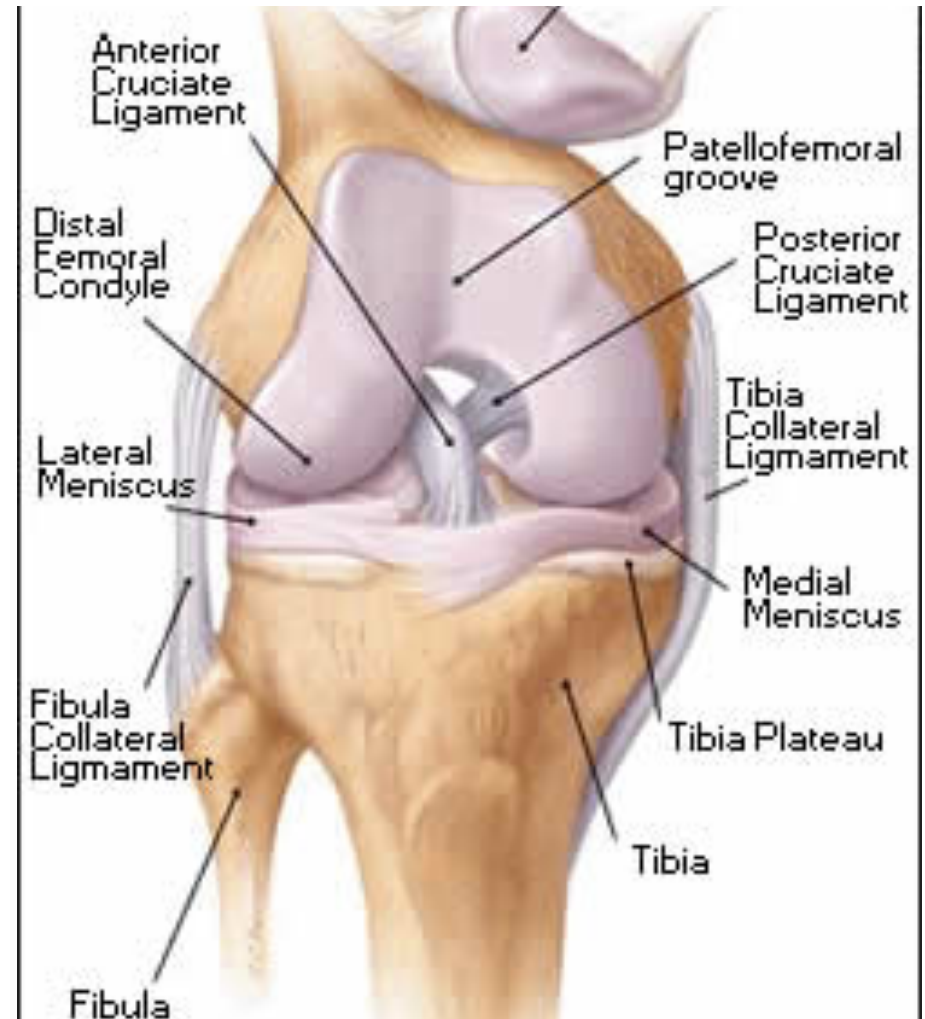
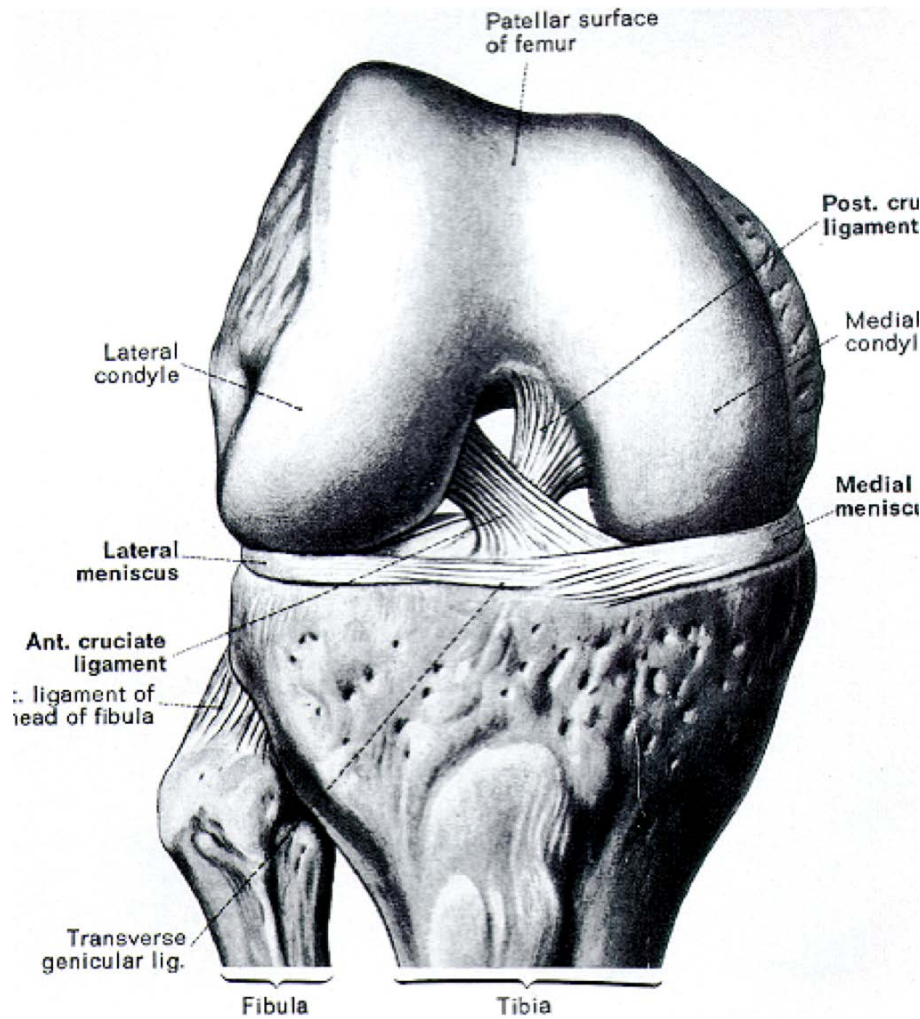
## **VisionScope Imaging: Transforming the Standard of Care**

The role of in-office direct visualization in the diagnosis & treatment of joint pain

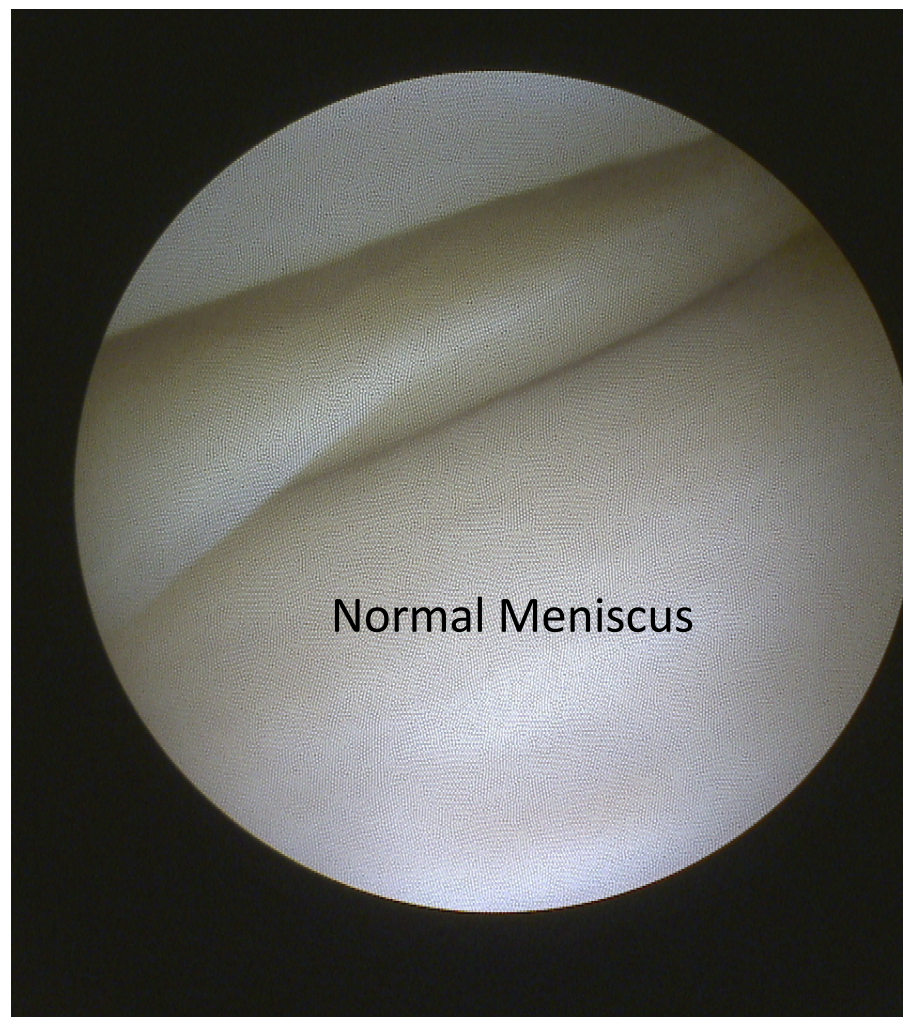
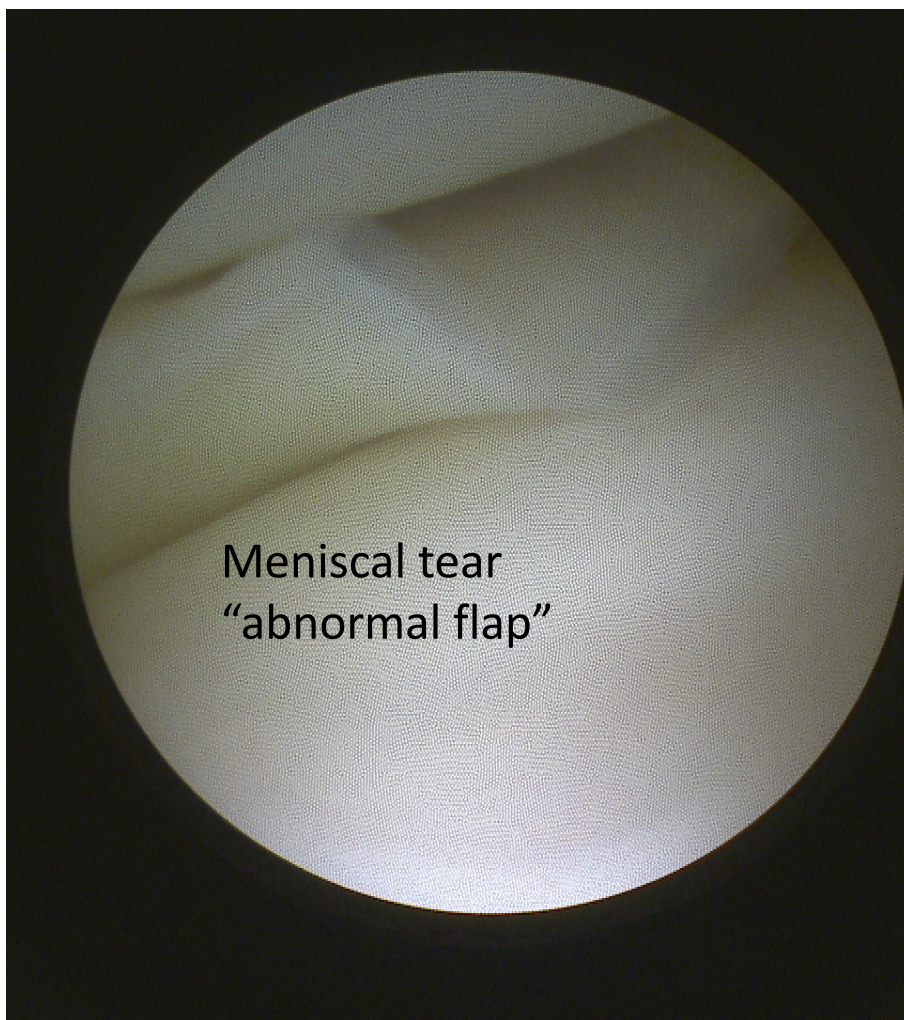
### **Knee Anatomy and Images**



# Knee Anatomy

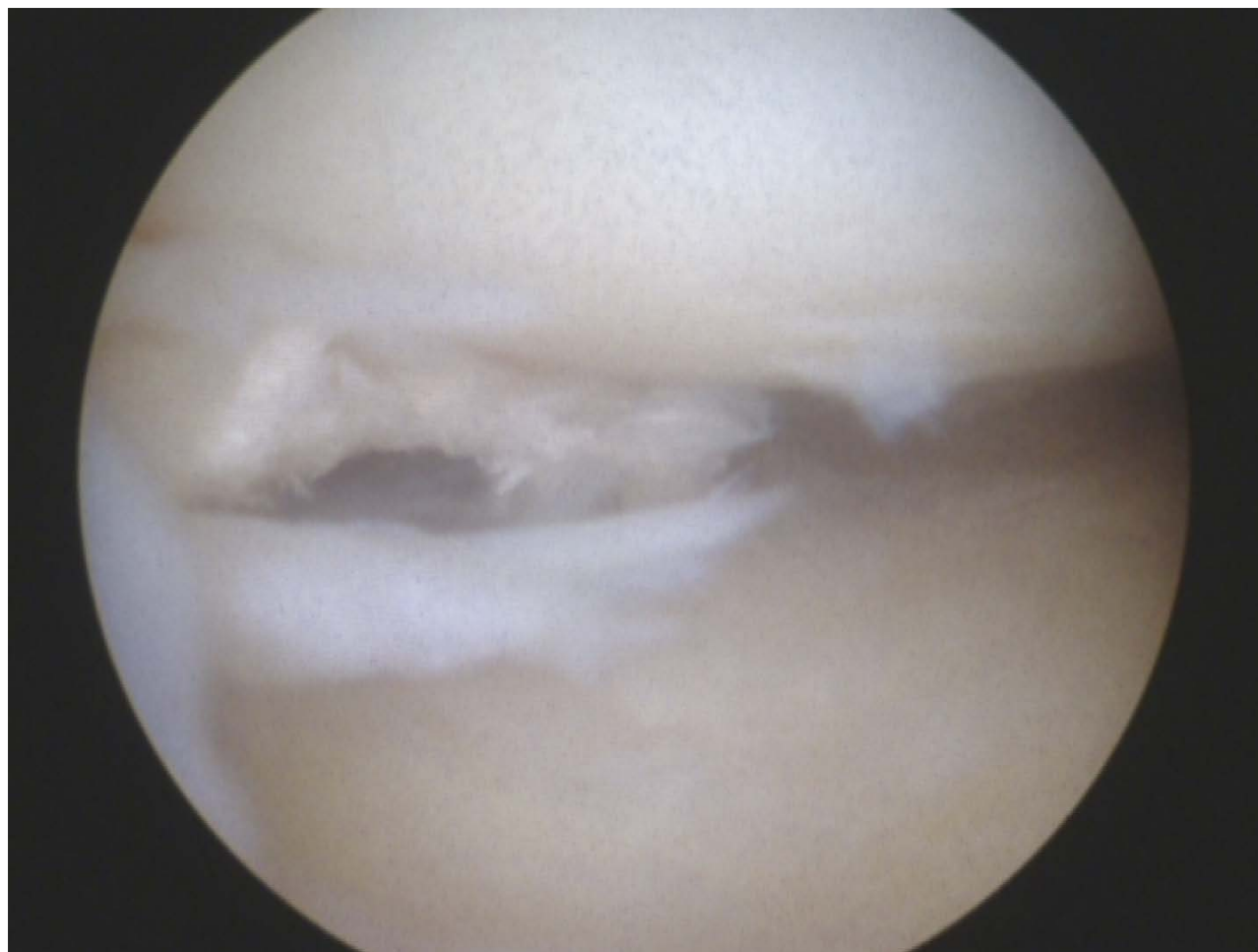


## Meniscal Tears



## Meniscal Tears

Femur



Meniscal  
Tear

Tibia

## CLINICAL BACKGROUND

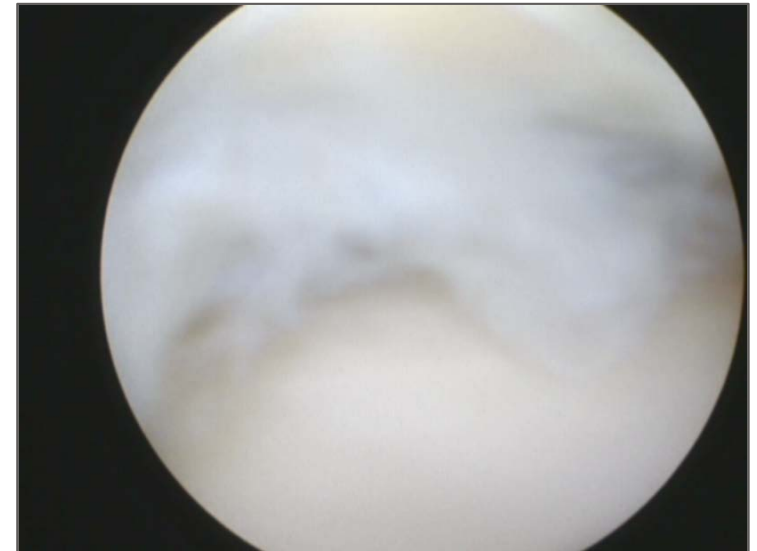
- 46-year old female
- Chronic knee pain with catching and locking
- Failed conservative treatment

## DIAGNOSIS

**VSI found a complex tear of the medial meniscus**

## VSI ADVANTAGE

Having failed conservative treatment, VisionScope definitively identified the problem – and the next steps were scheduled – all in one short visit. VisionScope shortened the care path for the patient.



VSI



OR Image

## Knee

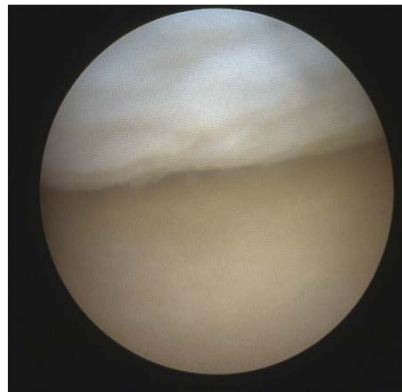
### CHONDRAL DEFECTS

#### HOW VSI HELPS

- Identify Microfracture vs Chondroplasty
- Eliminate a surgery (Grade I & II)
- Enhance pre-surgical planning
  - Procedure
  - Lesion location
  - Size & depth



Grade I



Grade II



Grade III



Grade IV

## Knee

### CHONDRAL DEFECTS

#### SYMPTOMS

- Catching or Locking
- Pain
- Swelling
- Single point of pain identification

#### MRI RESULTS

- Osteochondral defect identified
- Size and exact location hard to identify

#### TREATMENT

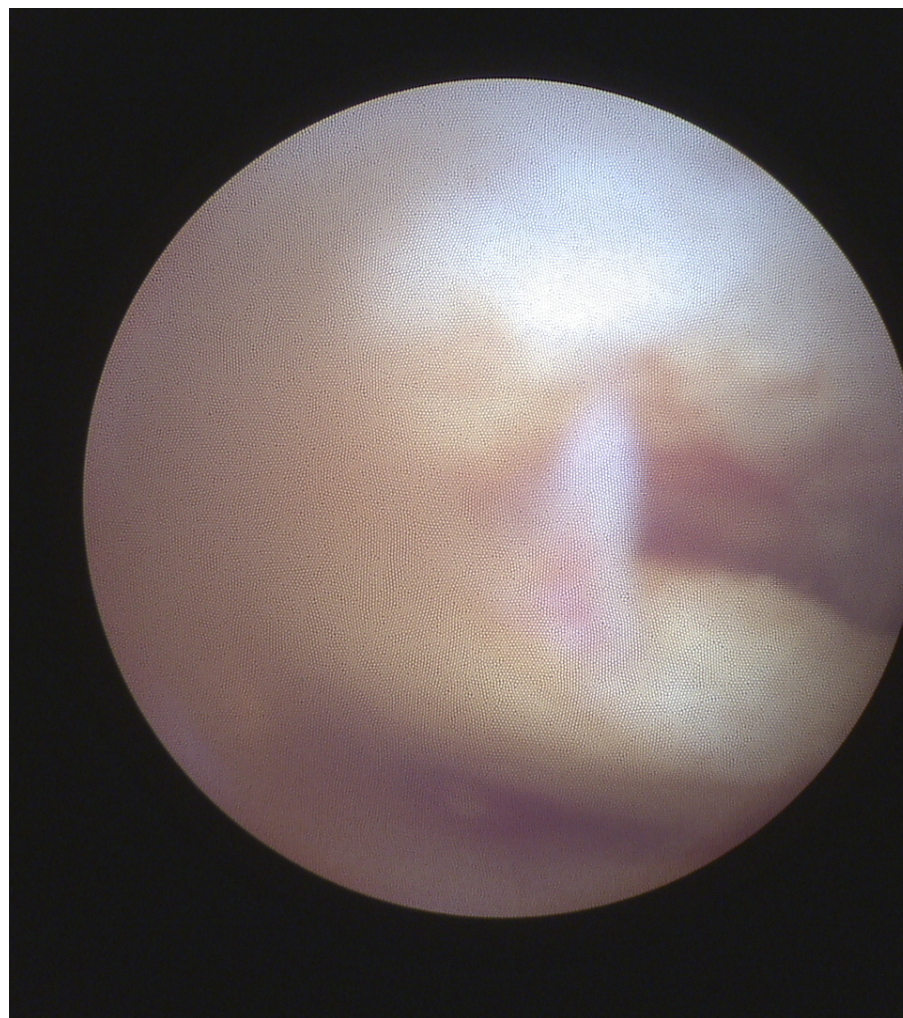
- Grade I and II: leave alone or chondroplasty
- Grade III and IV: resurfacing
  - Microfracture
  - ACI
  - Arthrosurface
  - Other



## Chondral Defects



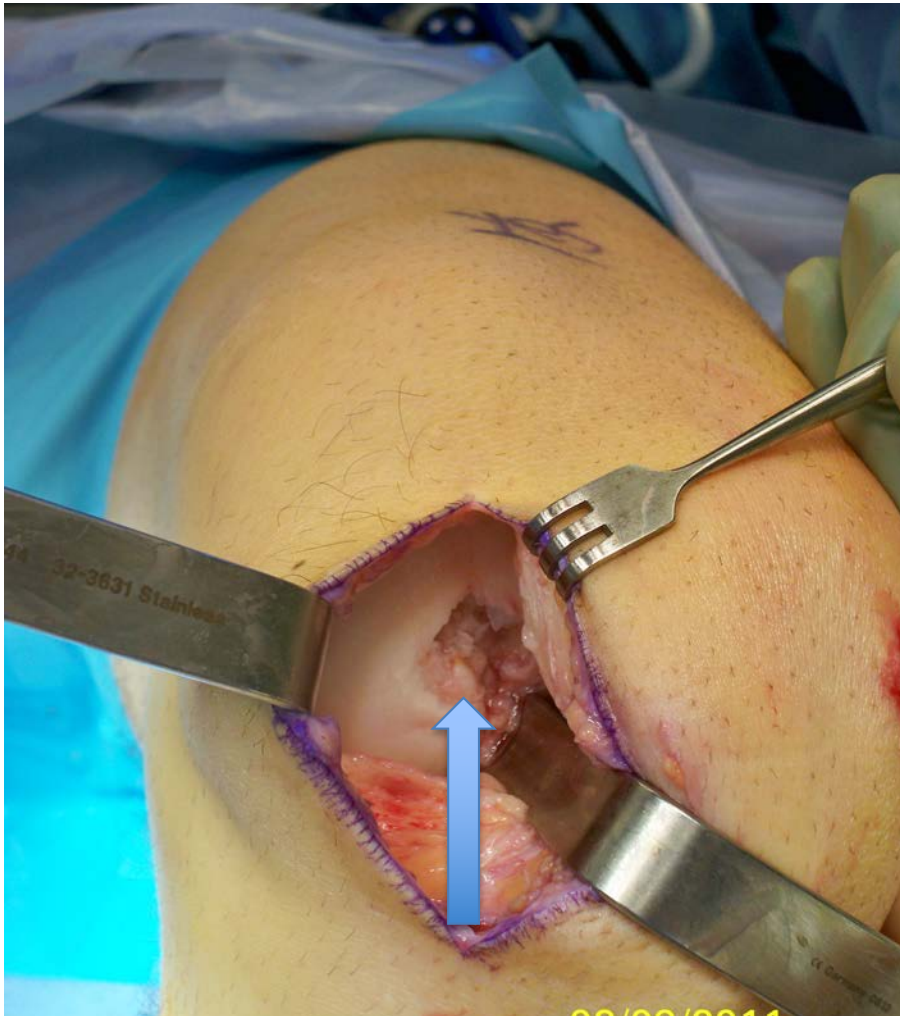
Grade IV Defect  
(on femoral condyle)





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VSI Direct Visualization in the Office  
Chondral Defect (Grade IV)



Grade IV Chondral lesion

Large defect when viewed via arthrotomy

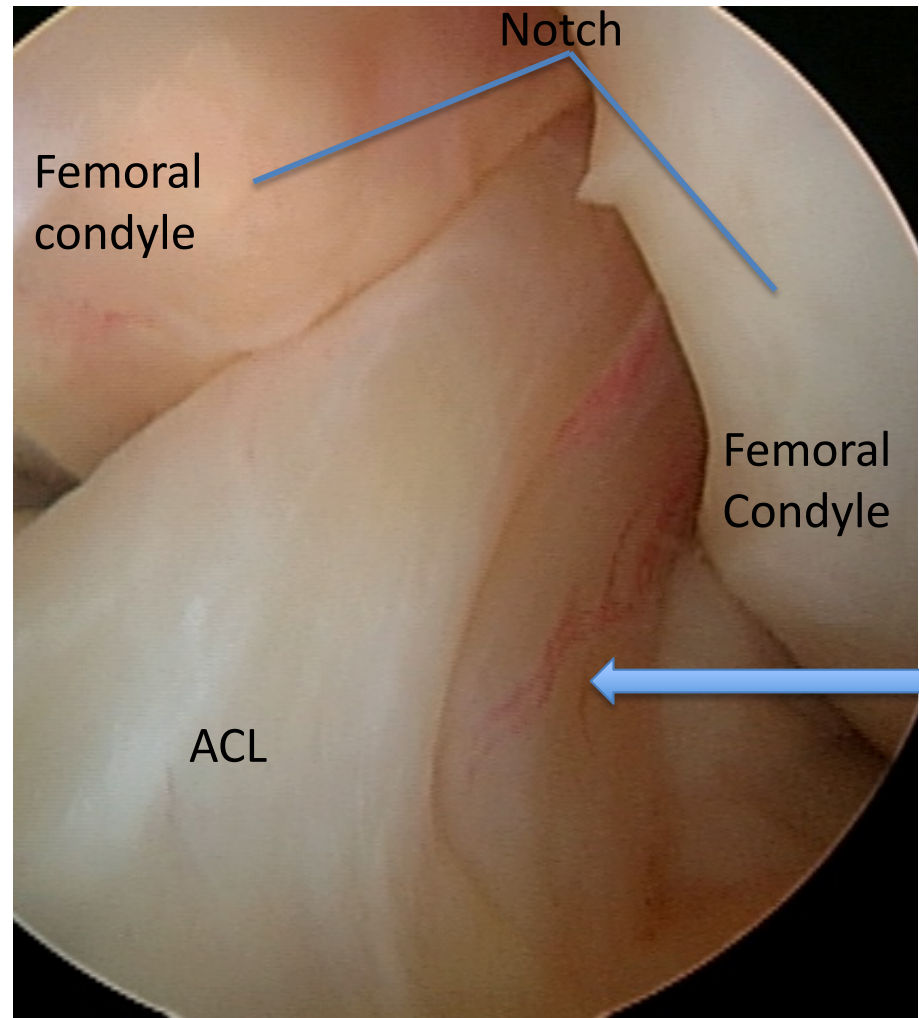
Unlikely to respond to OrthoBiologics

Surgical referral with ACI, Micro fracture, OATs or PKA

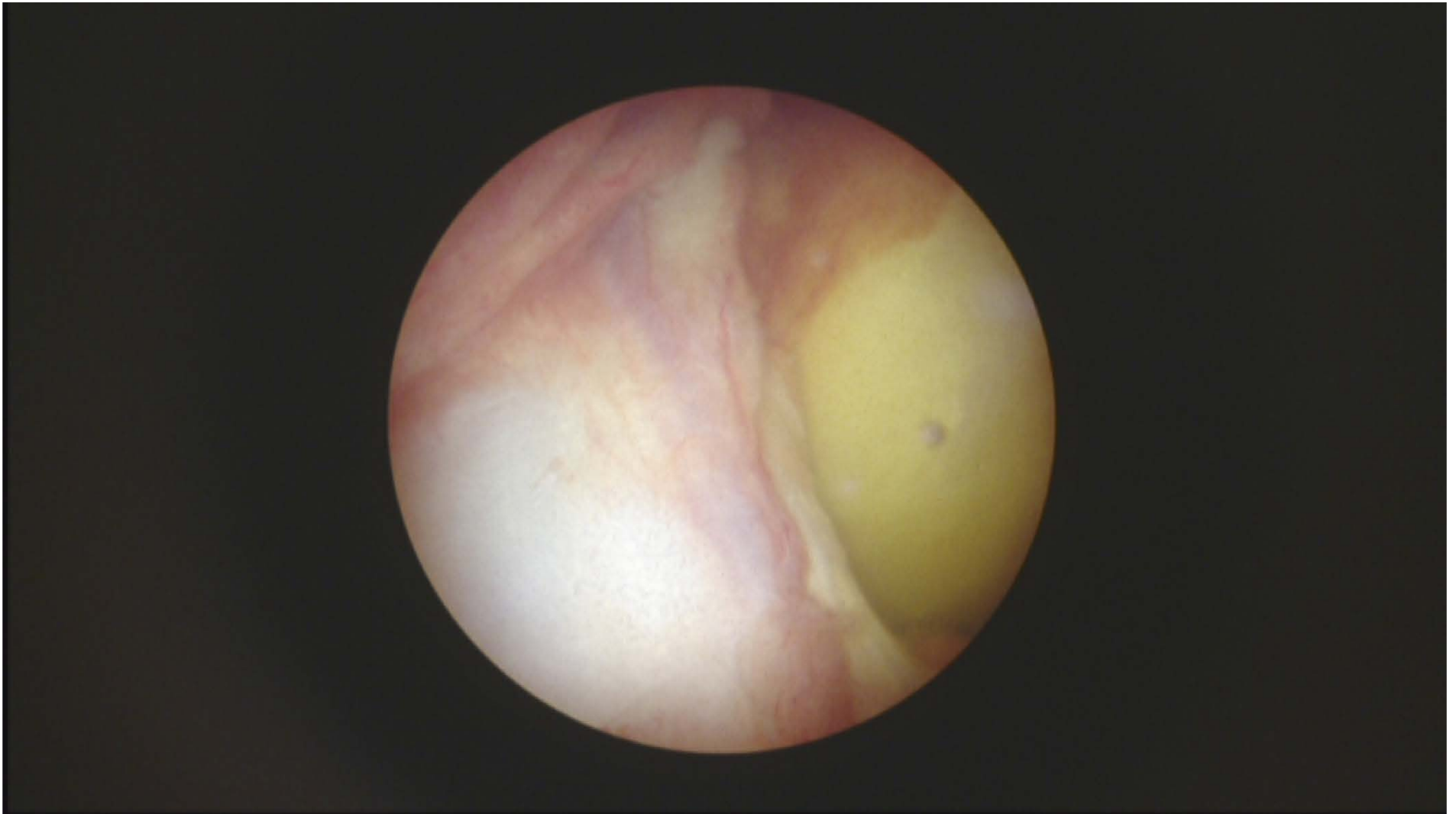
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VSI Direct Visualization in the Office

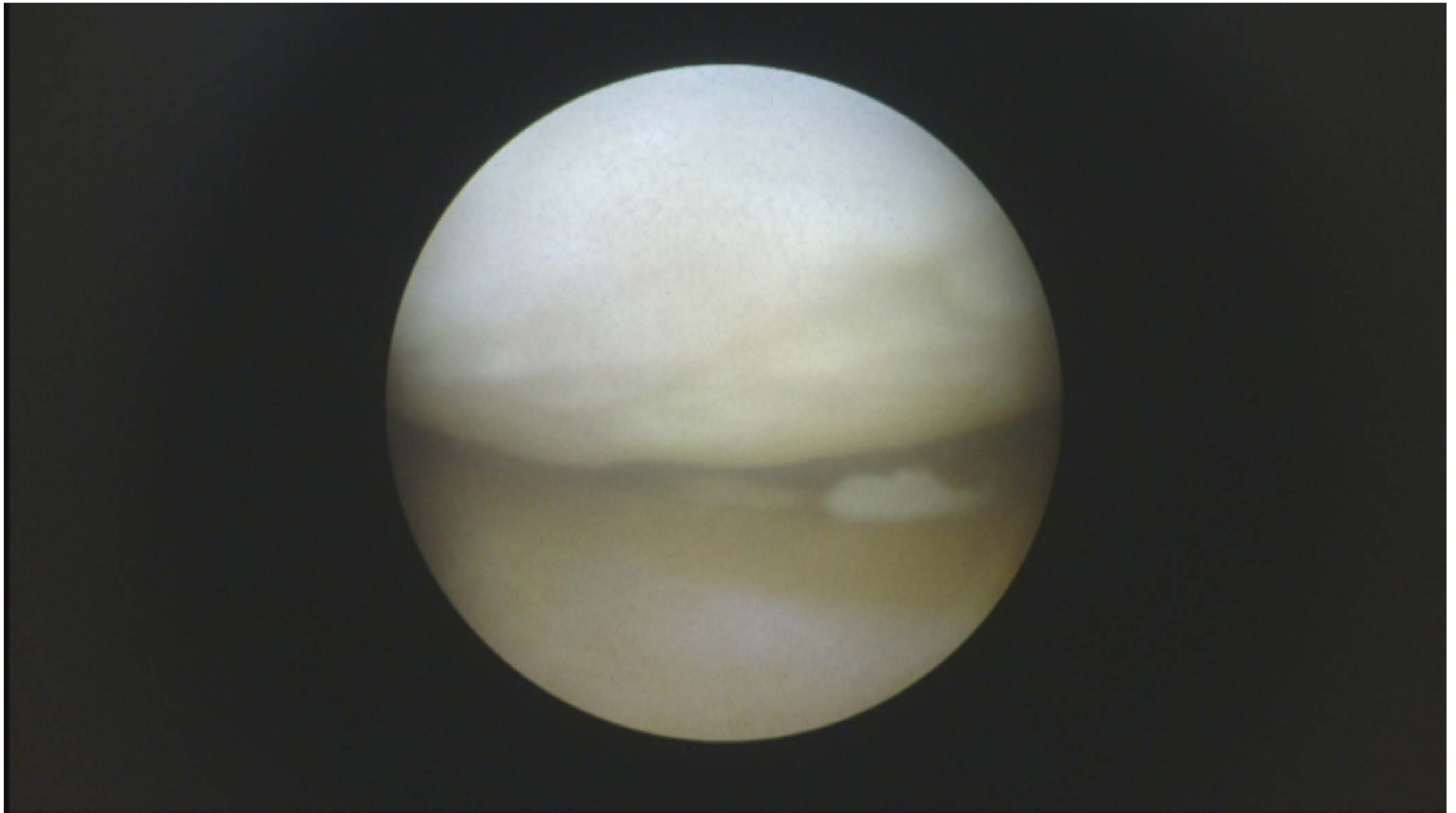
ACL- Anterior Cruciate Ligament



## Anterior Cruciate Ligament



## Chondral Defect (Type IIB) with Loose Body



### CLINICAL BACKGROUND

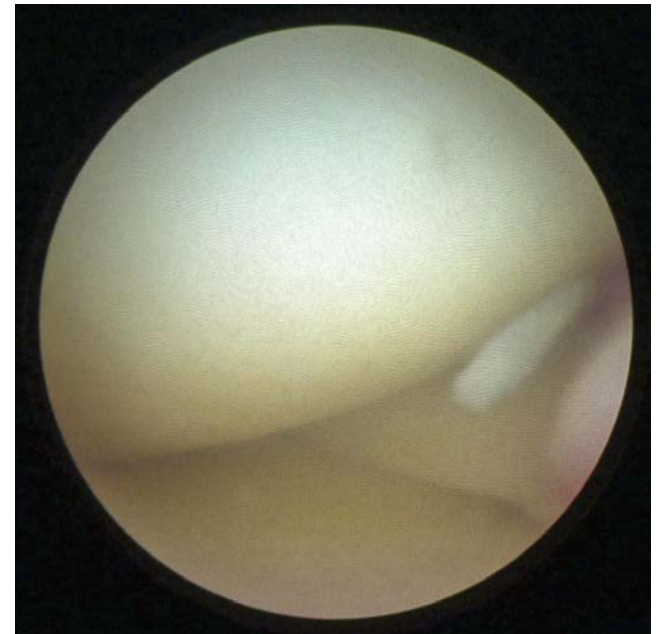
- 20-year old female, Division I soccer player
- Presented with catching and locking of knee
- MRI findings were negative

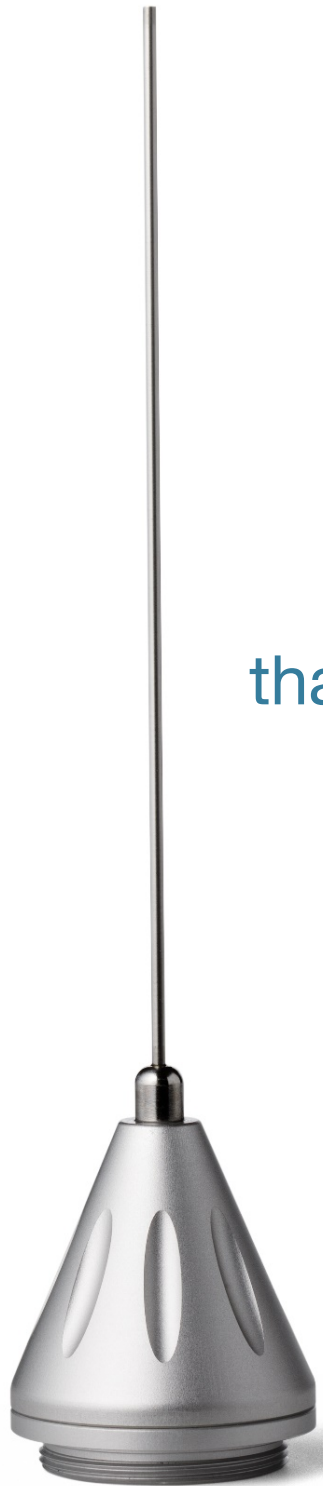
### DIAGNOSIS

**VSI identified loose bodies, no meniscus tear, a focal grade 4 chondral defect (likely donor site of loose bodies)**

### VSI ADVANTAGE

VSI over-turned MRI findings, providing clear insight to pathology and next steps.





thank you