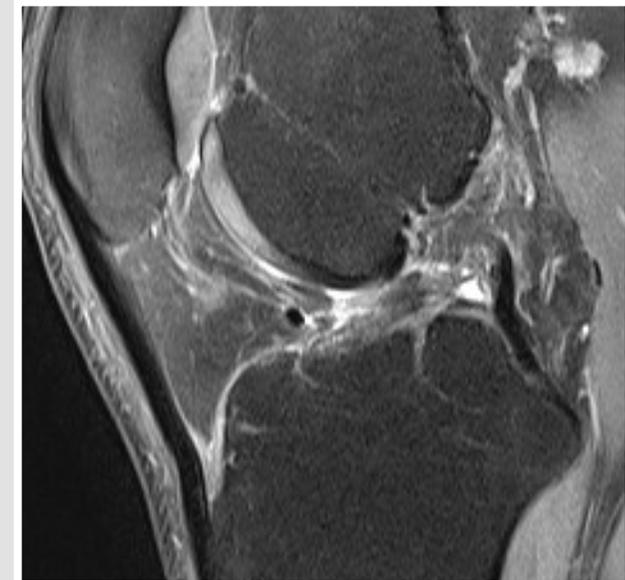


Traitements alternatifs LCA



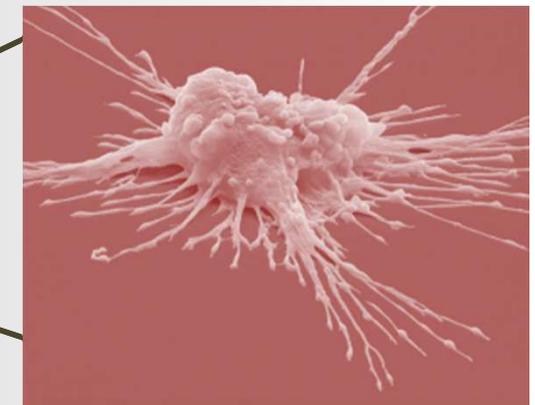
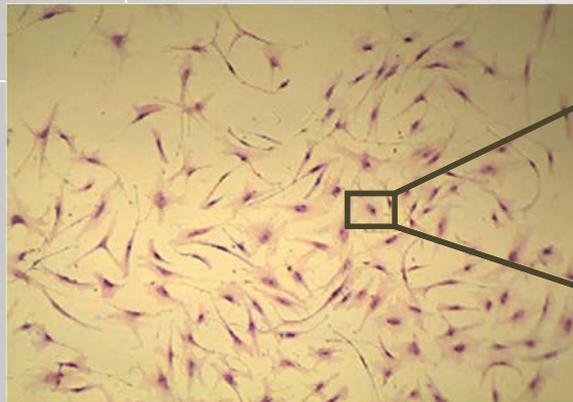
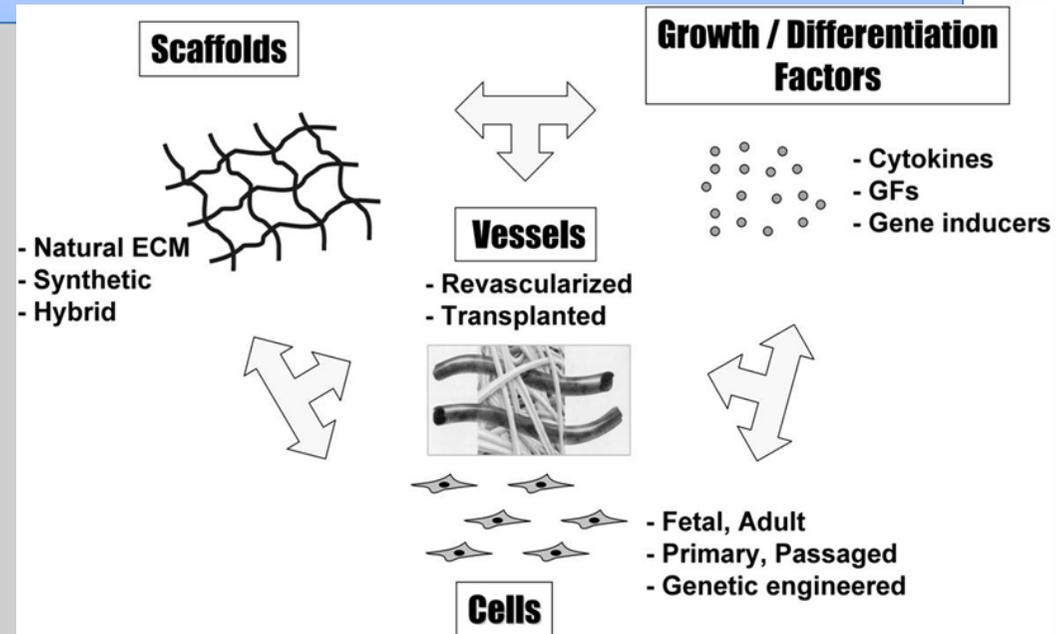
S Descamps
Clermont Ferrand

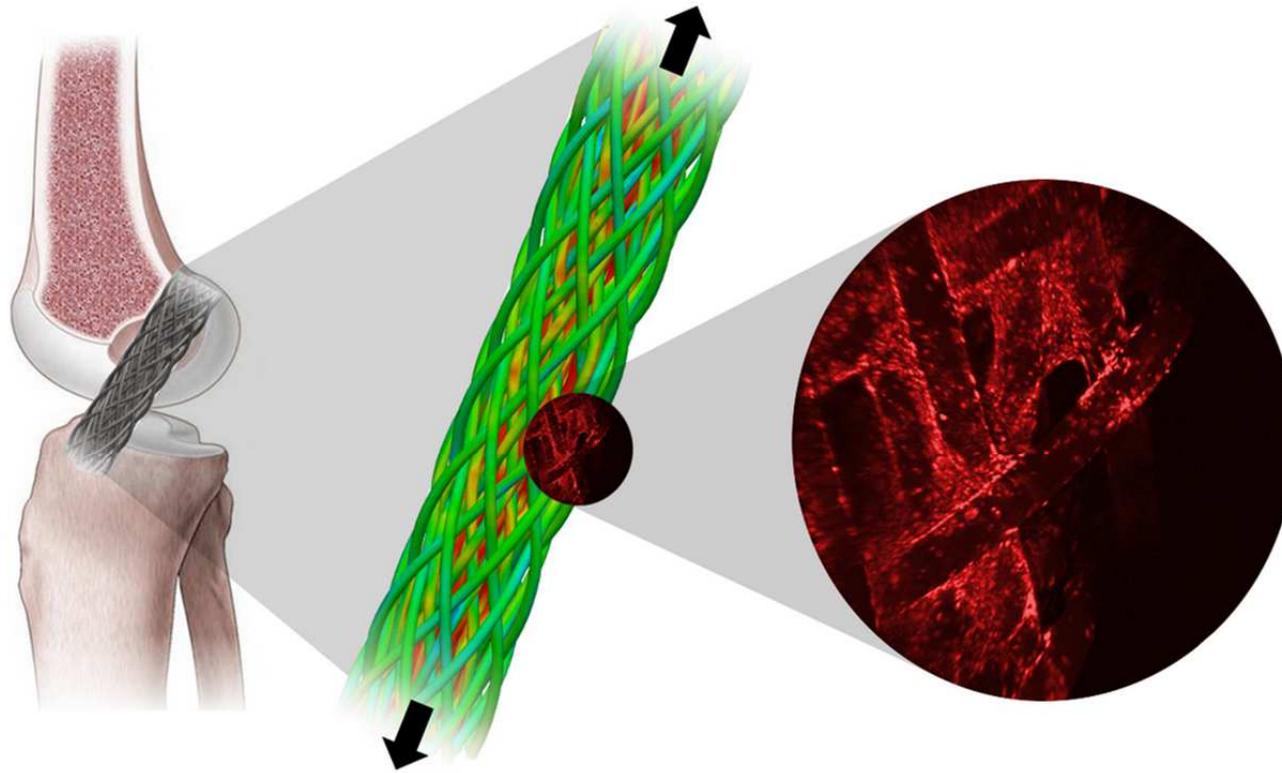
Alternative à la ligamentoplastie ?

- Un regain d'intérêt
- Pas mal de littérature
- Encore à évaluer !
- Qqs certitudes
- Historique : (80/90) bon résultats initiaux mais pas à moyen et long terme
- « Healing enhancement » / ingénierie tissulaire

Ingénierie tissulaire : polythérapie

- Polythérapie
 - Support
 - Stabilité
 - Cellules ostéocompétentes
 - Facteurs de croissance
 - Vascularisation

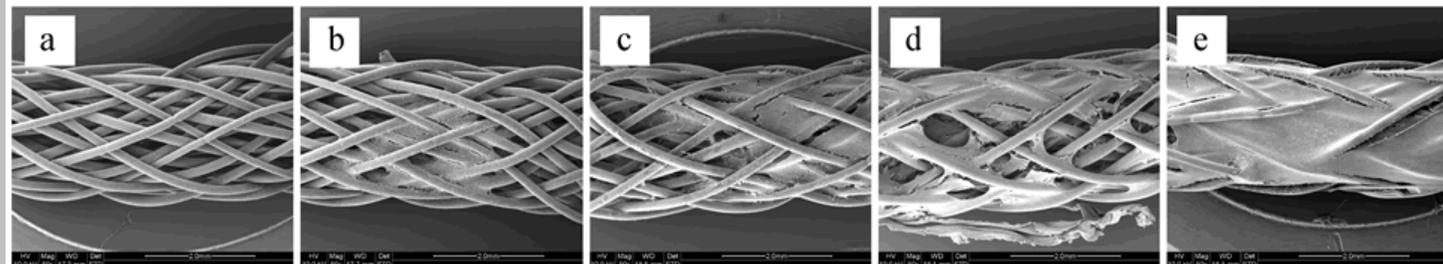




LEMMA, Nancy
IBMM Montpellier

Le ligament et sa structure tressée.

 Télécharger l'image originale

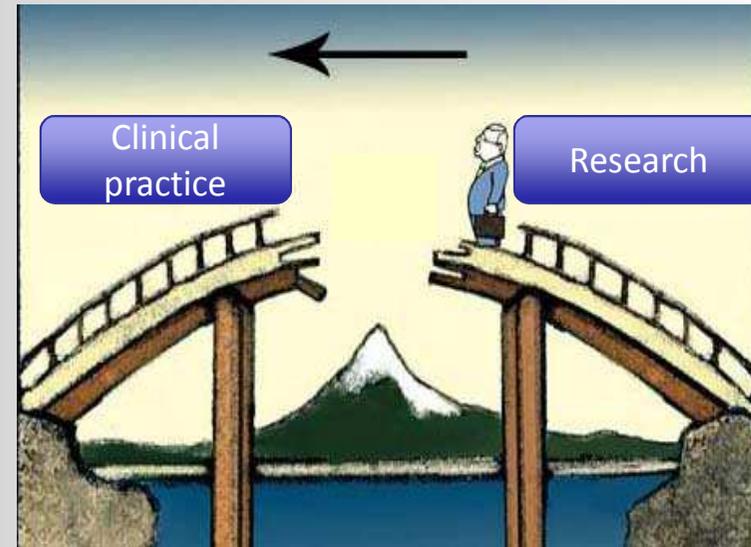


La prolifération de cellules sur une matrice de support.

 Télécharger l'image originale



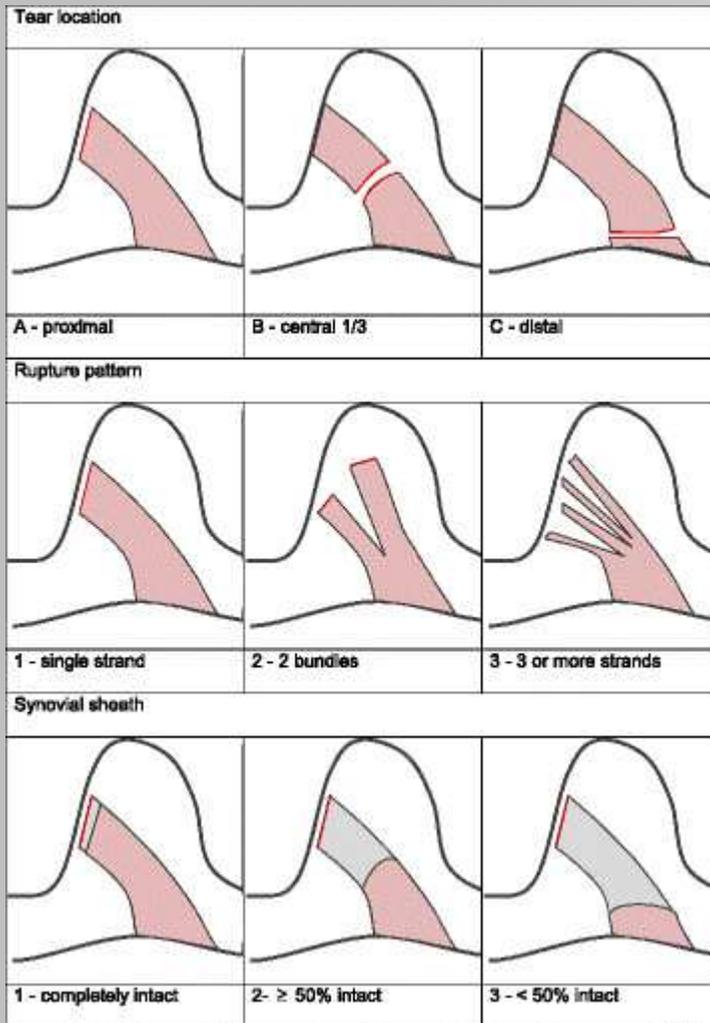
Techniques de cicatrisation au LCA



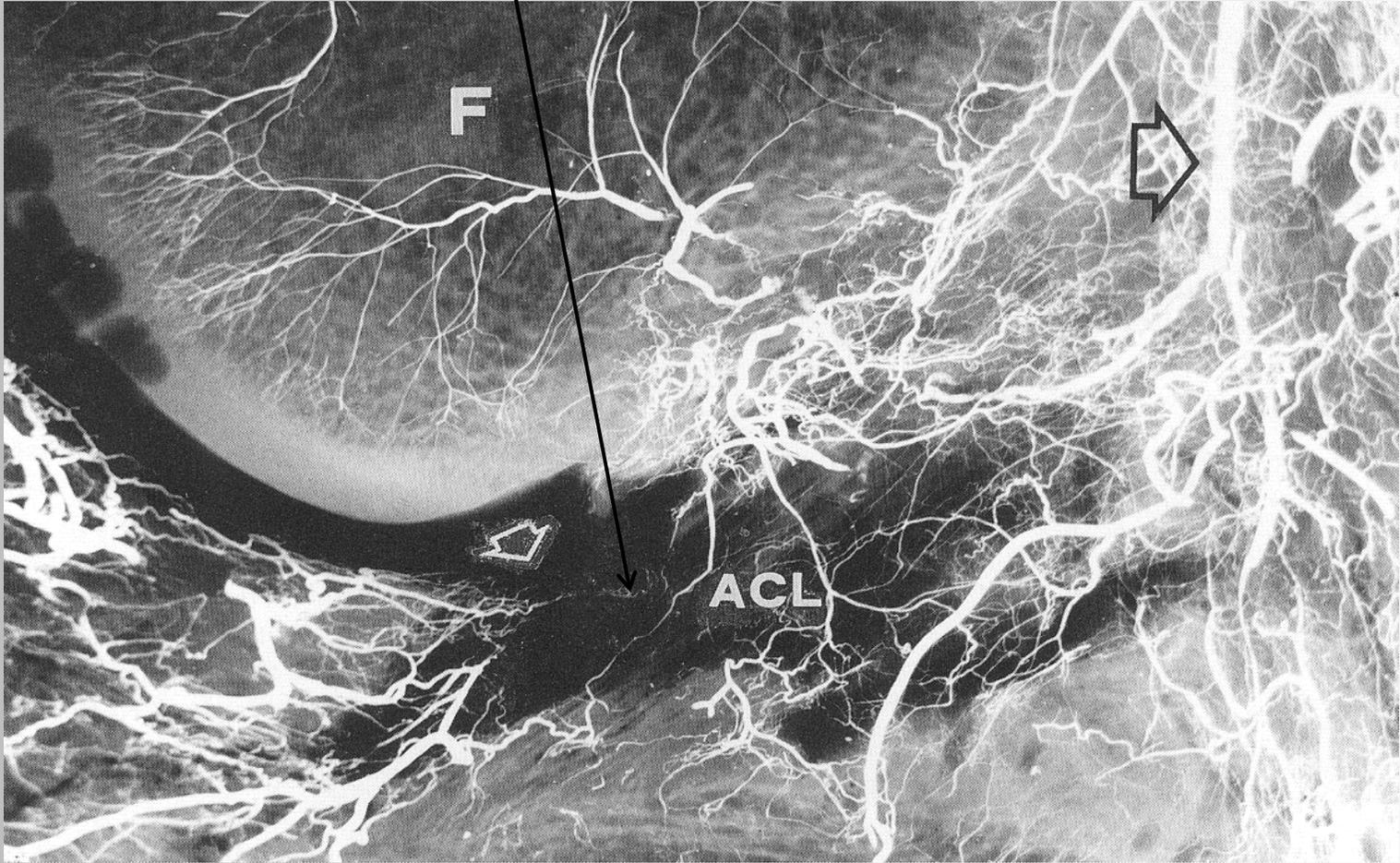
- Suture anchor repair (SAR)
- Bridge enhance ACL repair technique (BEAR)
- Suture pull-out repair
- Internal brace ligament augmentation repair (IB)
- Ligamys (DIS)

Sont basées sur

Classification de Shermann



Zone avasculaire



suture anchor repair (SAR)

Hoffmann et al. *Journal of Orthopaedic Surgery and Research* (2017) 12:171
DOI 10.1186/s13018-017-0678-9

Journal of Orthopaedic
Surgery and Research

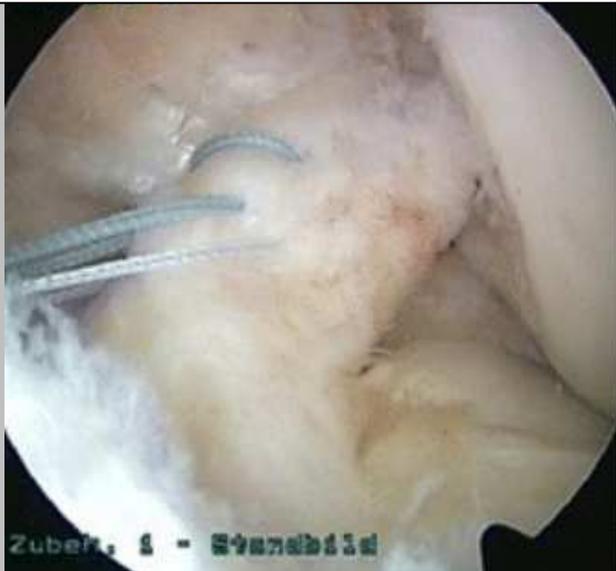
RESEARCH ARTICLE

Open Access

Primary single suture anchor re-fixation of anterior cruciate ligament proximal avulsion tears leads to good functional mid-term results: a preliminary study in 12 patients



Christof Hoffmann^{1,2*}, Jan Friederichs¹, Christian von Rueden^{1,2,3}, Christian Schaller⁴, Volker Bühren^{1,2} and Christoph Moesmer^{1,2}



bridge-enhanced ACL repair technique (BEAR)

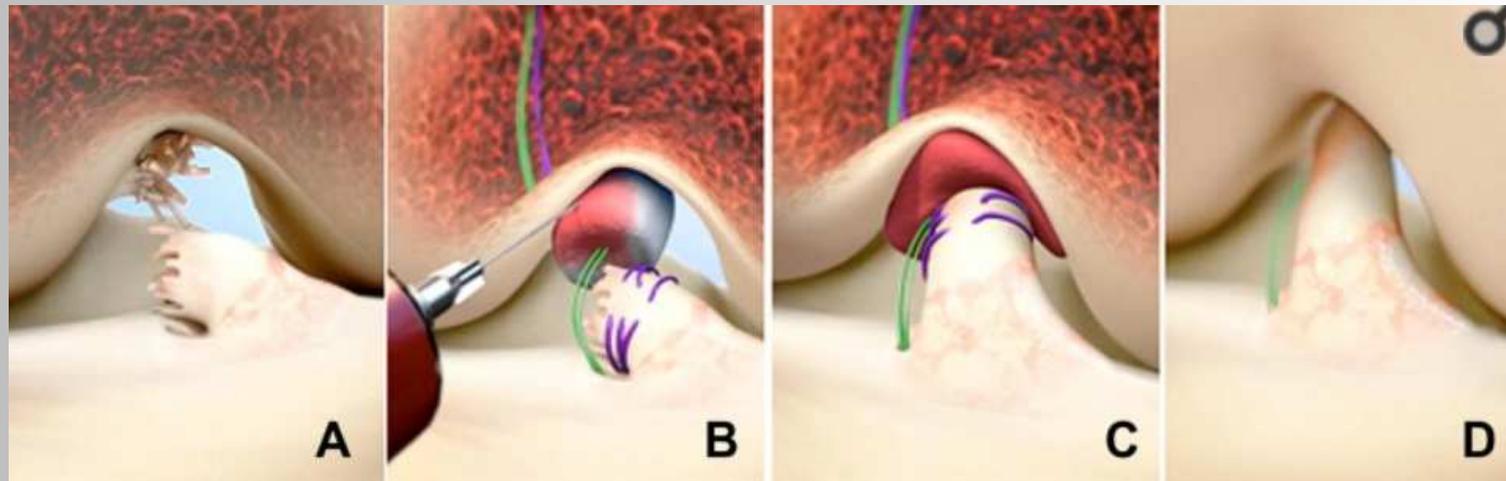
Bridge-Enhanced Anterior Cruciate Ligament Repair

The Orthopaedic Journal of Sports Medicine

Two-Year Results of a First-in-Human Study

Martha M. Murray,* MD, Leslie A. Kalish, ScD, Braden C. Fleming, PhD, BEAR Trial Team,

- Scaffold composed of extracellular matrix proteins, including collagen (bovin)



suture pull-out repair



Contents lists available at [ScienceDirect](https://www.sciencedirect.com)

Chinese Journal of Traumatology

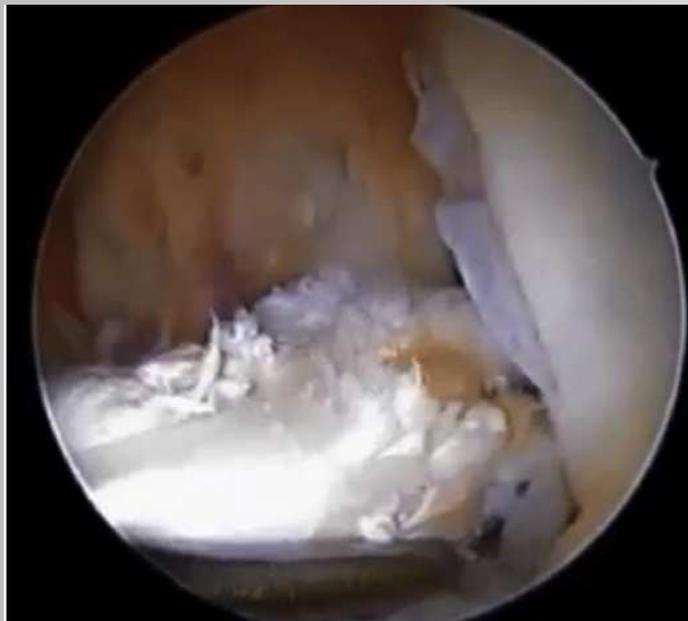
journal homepage: <http://www.elsevier.com/locate/CJTEE>



Original Article

ACL femoral avulsion repair using suture pull-out technique: A case series of thirteen patients

Reetadyuti Mukhopadhyay^{a,*}, Nishith Shah^b, Rohan Vakta^b, Jaymin Bhatt^b



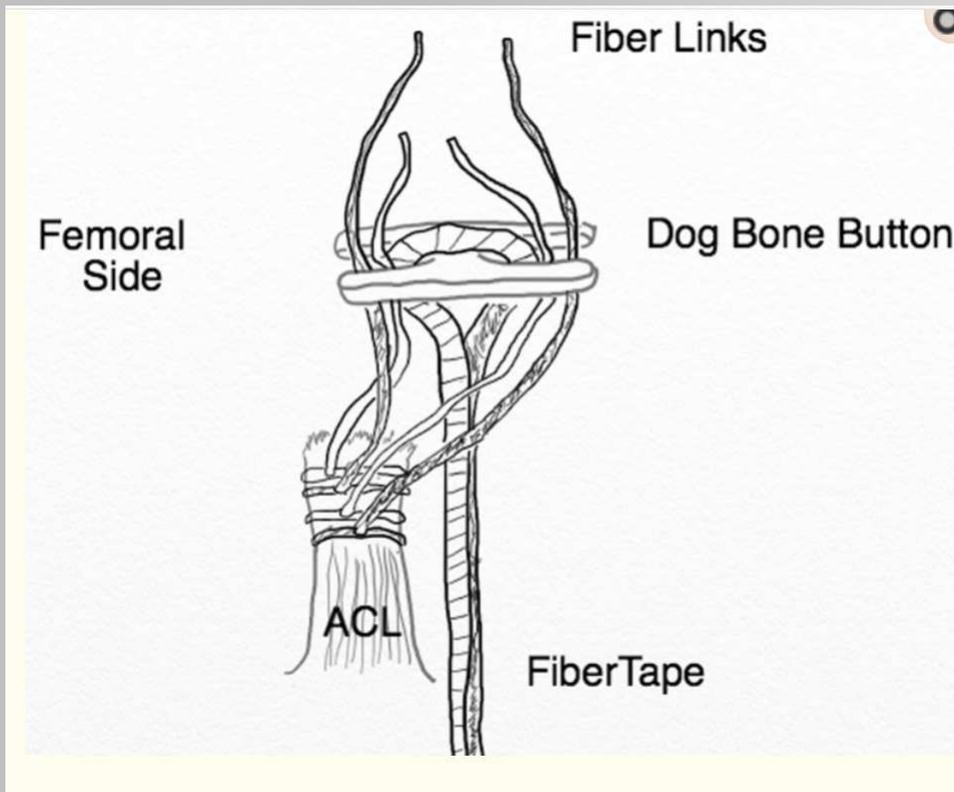
Internal Brace Ligament Augmentation Repair (IB)

Technical Note

Primary Anterior Cruciate Ligament Single-Bundle
Repair With Augmentation for a Partial Anterior
Cruciate Ligament Tear



Aaron Michael Gipsman, M.D., Nicholas Trasolini, M.D., and
George F. "Rick" Hatch III, M.D.



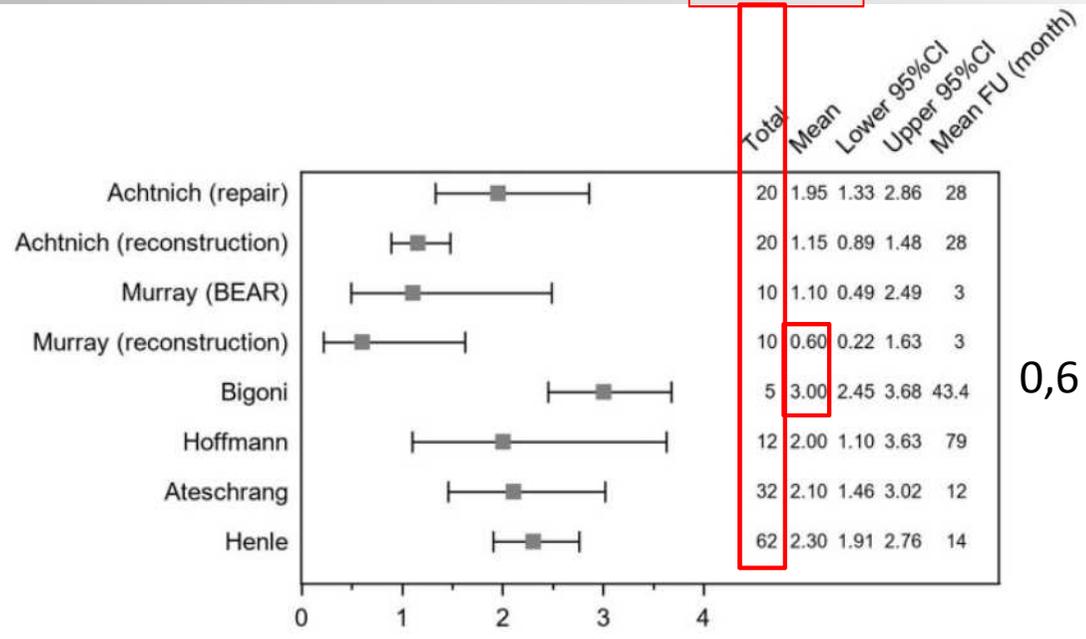
Systematic Review

Clinical Outcomes of Arthroscopic Primary Anterior Cruciate Ligament Repair: A Systematic Review from the Scientific Anterior Cruciate Ligament Network International Study Group



Vikram Kandhari, M.S., D.N.B., Thais Dutra Vieira, M.D., Hervé Ouanezar, M.D., Cesar Praz, M.D., Nikolaus Rosenstiel, M.D., Charles Pioger, M.D., Florent Franck, M.D., Adnan Saithna, M.D., and Bertrand Sonnerly-Cottet, M.D.

n=171



0,6 à 3 mm

[Download : Download high-res image \(171KB\)](#) [Download : Download full-size image](#)

Fig 5. Forest plot illustrating mean differential anteroposterior laxity in each of the included studies that reported this outcome along with the 95% CI. (BEAR, bridge-enhanced anterior cruciate ligament repair technique; CI, confidence interval; FU, follow-up.)

Si le sujet vous intéresse :

Mahapatra *et al.* *Journal of Experimental Orthopaedics* (2018) 5:20
<https://doi.org/10.1186/s40634-018-0136-6>

Journal of
Experimental Orthopaedics

REVIEW

Open Access

Anterior cruciate ligament repair – past, present and future

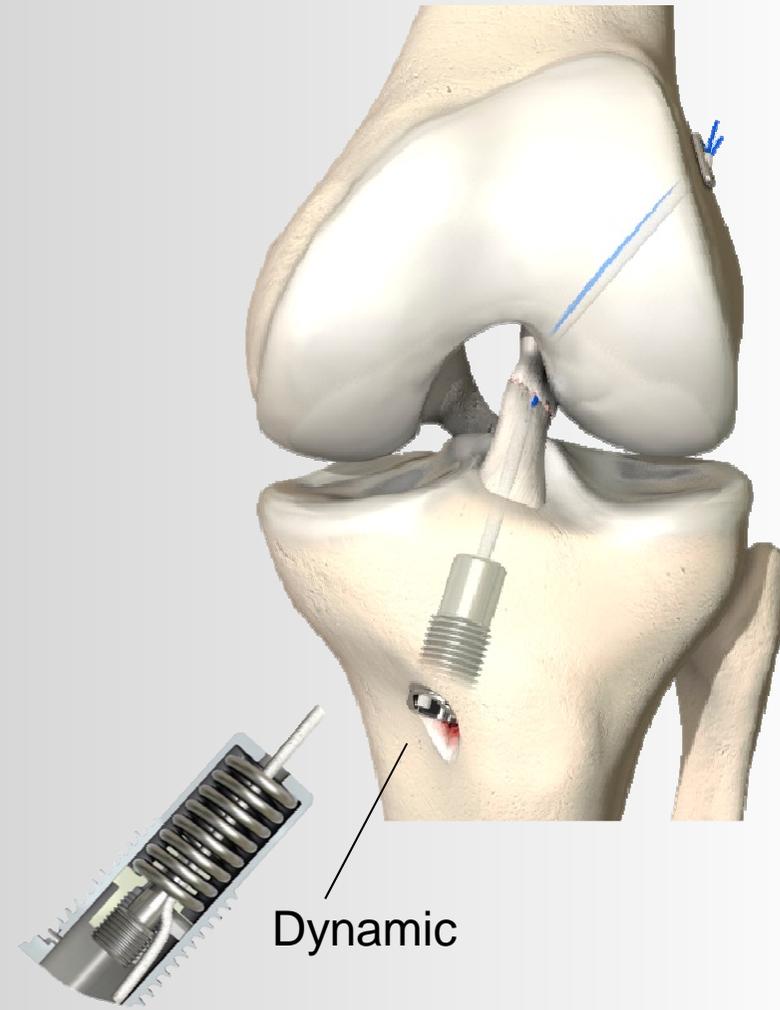


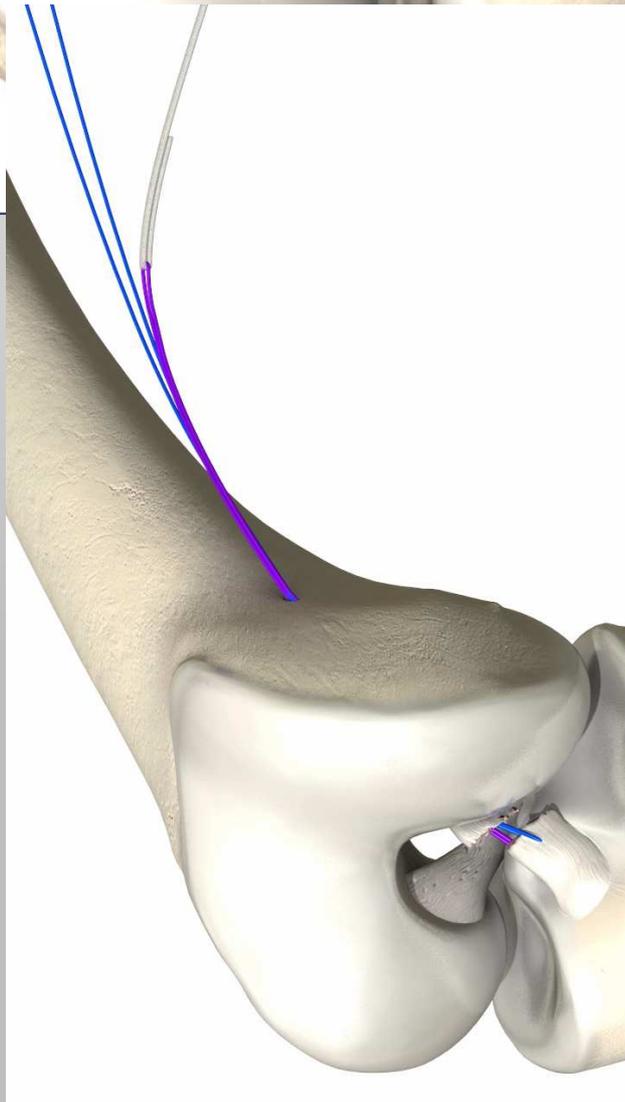
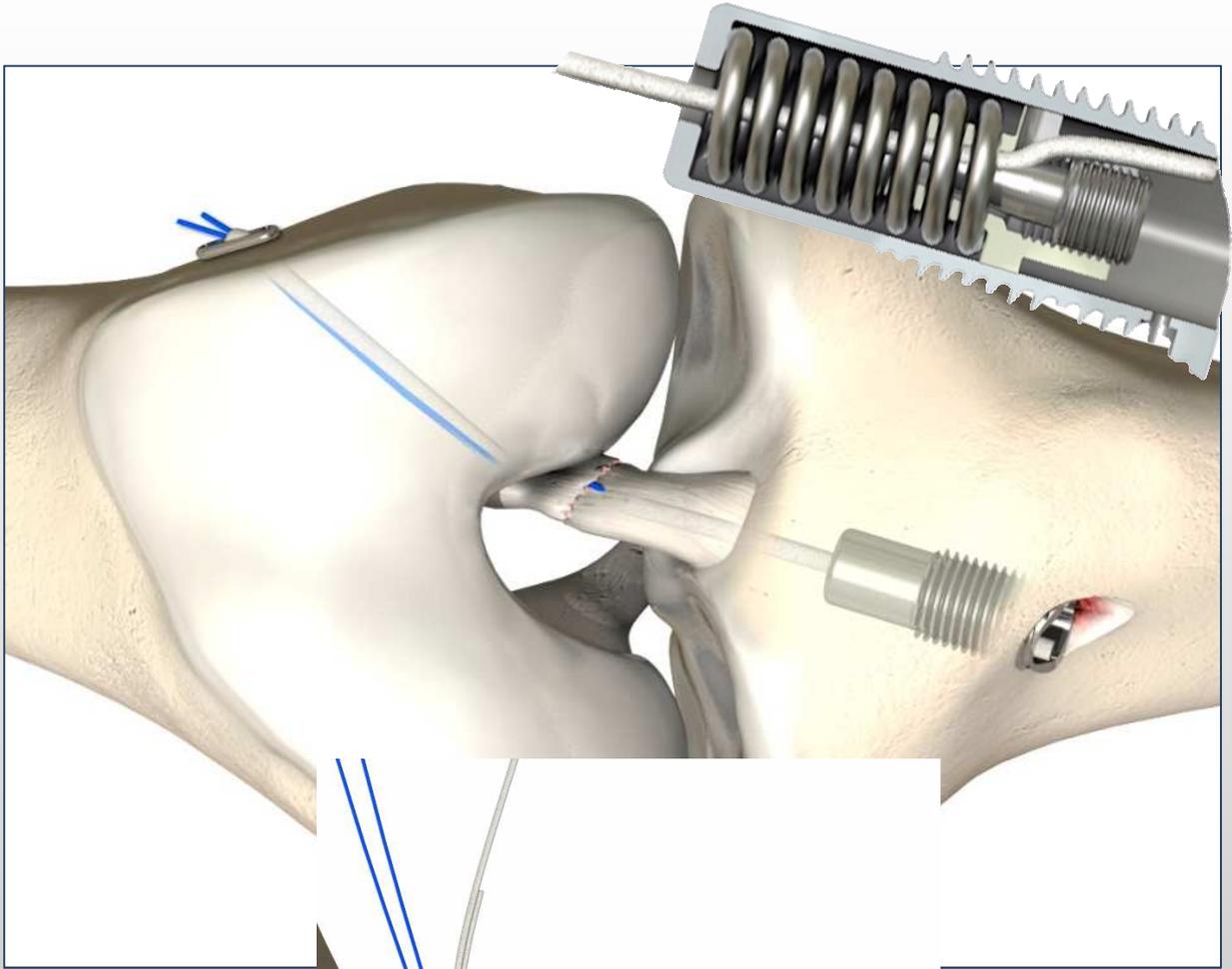
Piyush Mahapatra , Saman Horriat and Bobby S. Anand

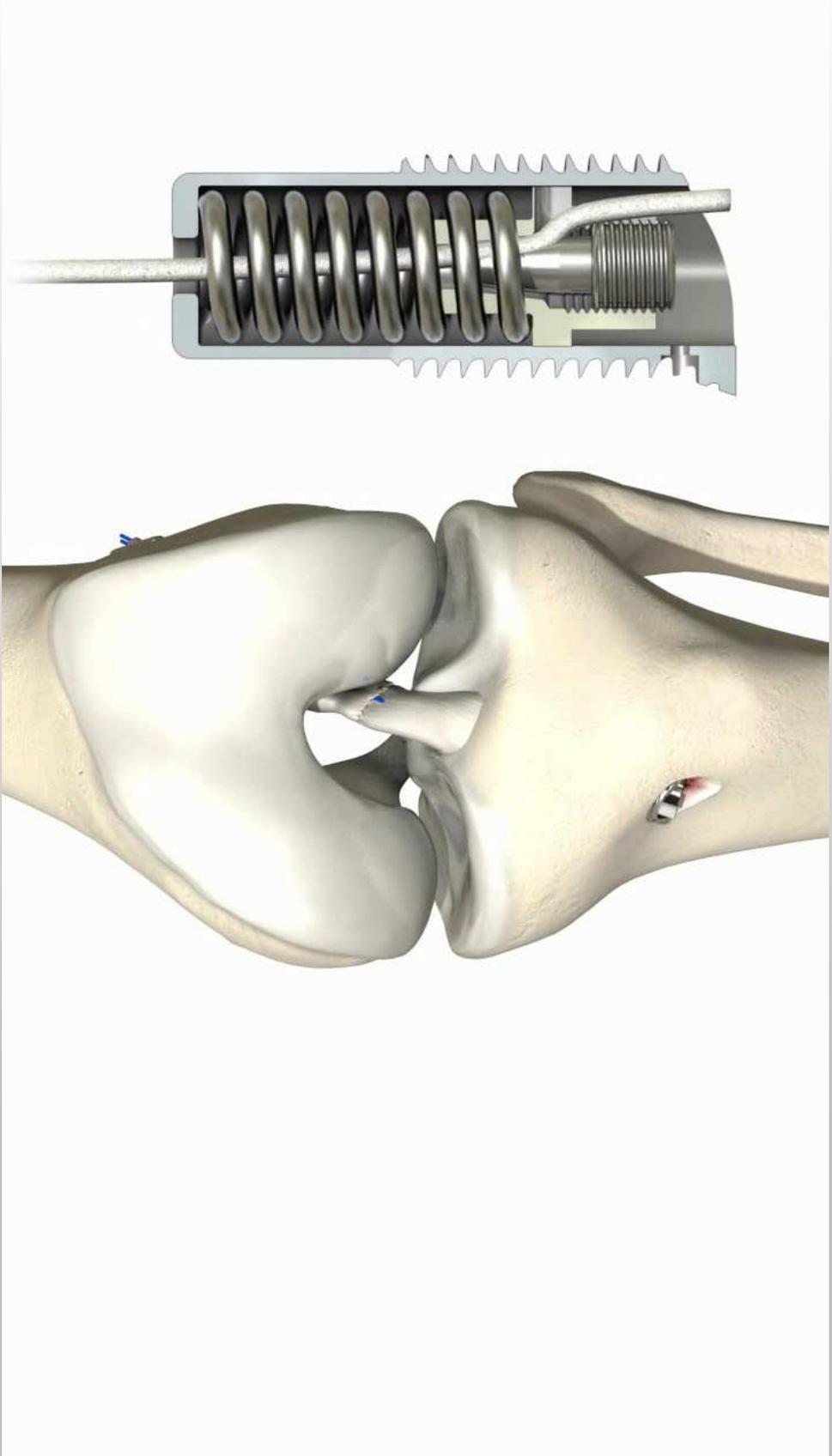
«Dynamic augmentation» with 2 implants



- Monobloc
- Braid with Button







Étude « ligamys »

Objectifs :

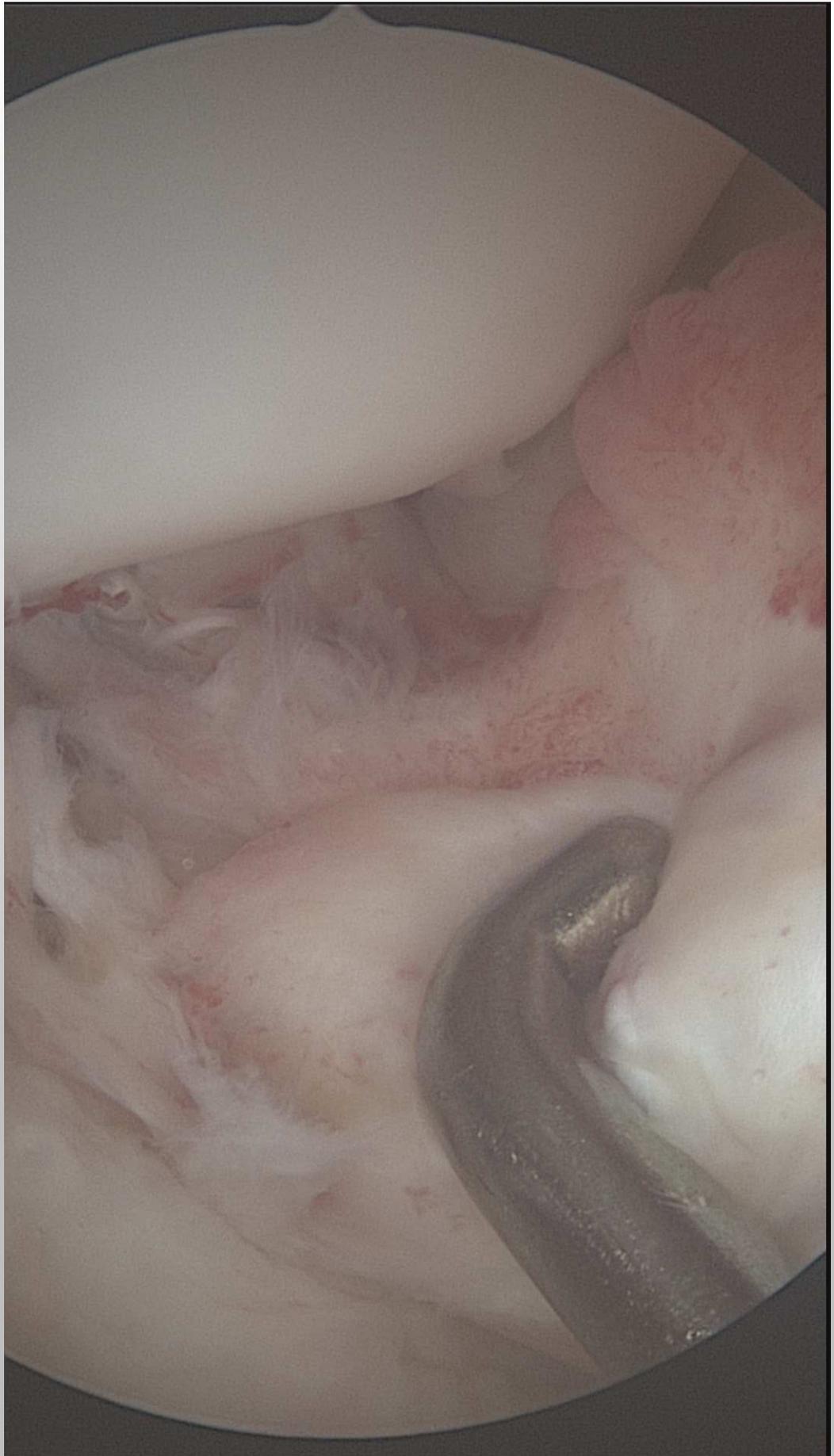
Principal : Comparer l'impact d'une réparation chirurgicale du ligament croisé antérieur par la technique de cicatrization Ligamys® à la technique standard, sur l'instabilité résiduelle du genou.

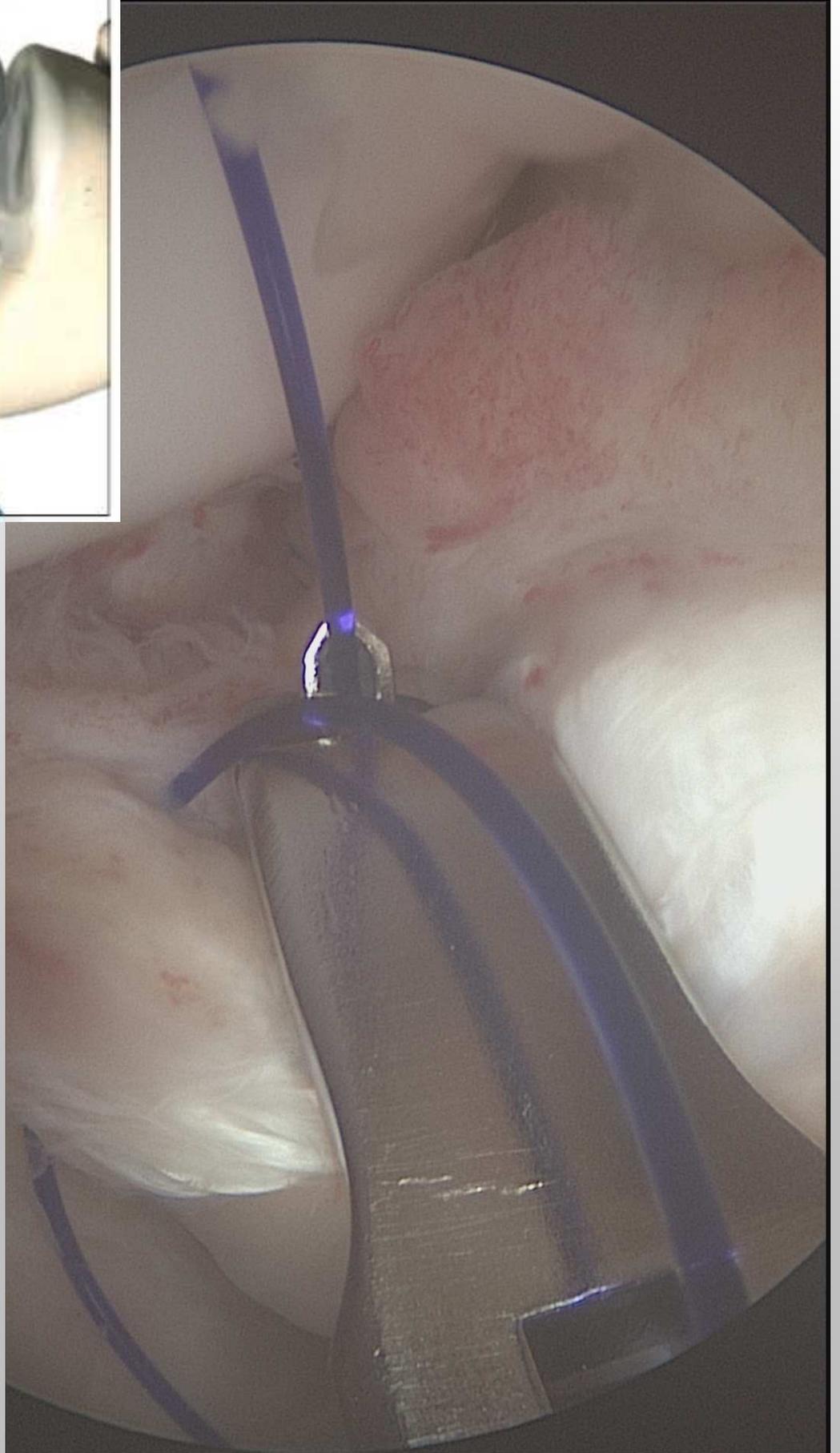
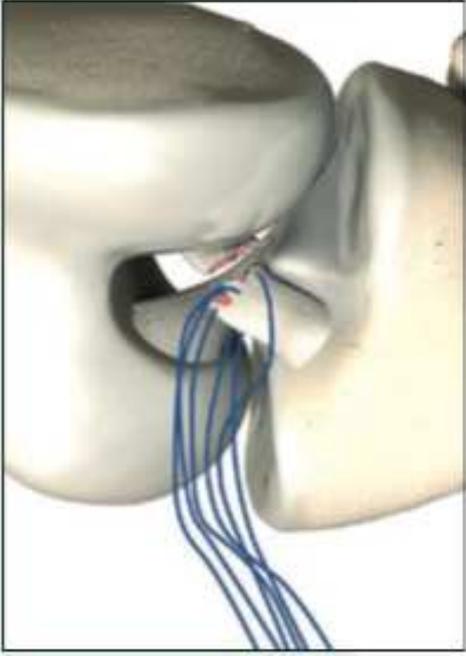
Secondaires :

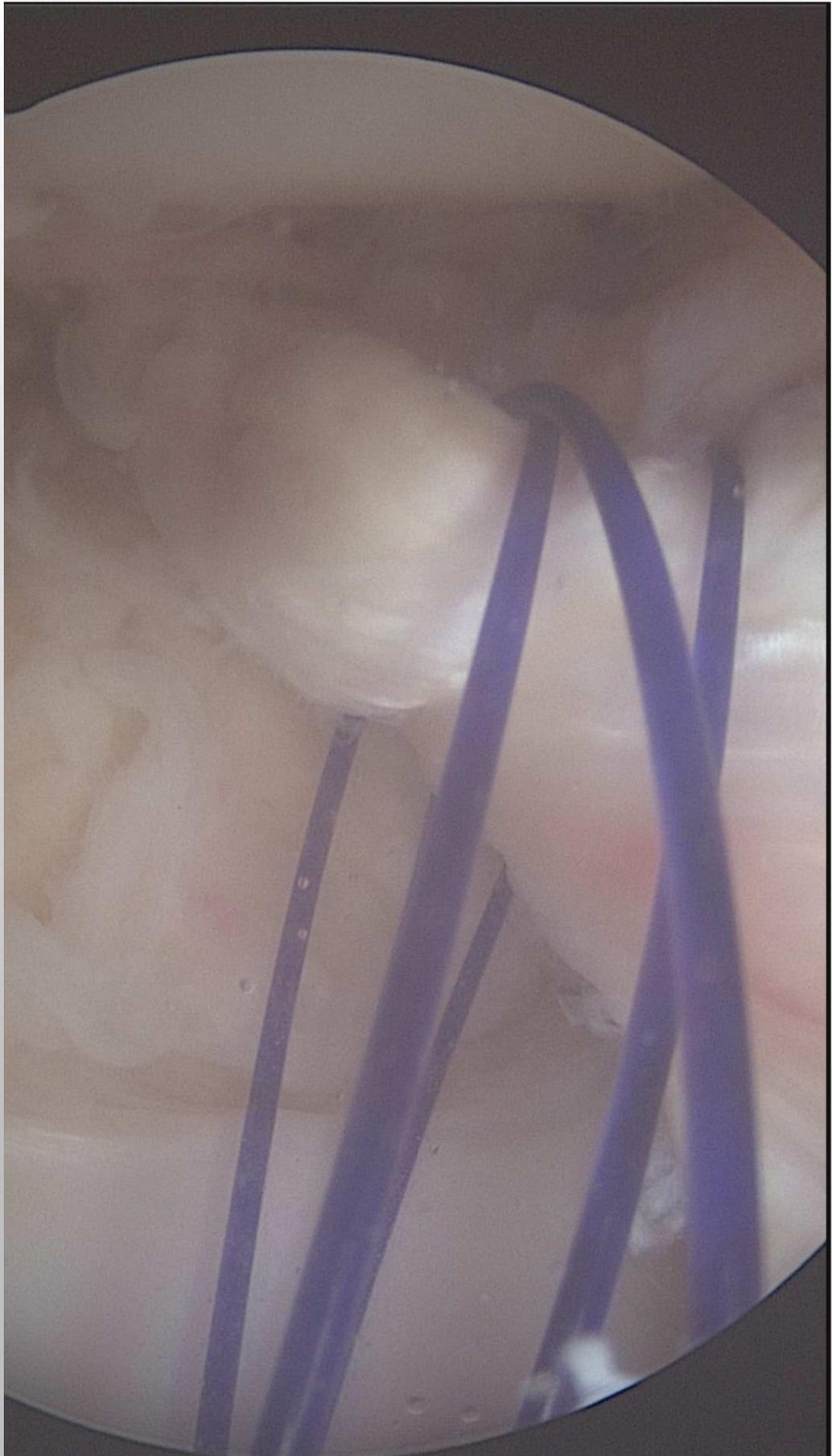
- Comparer l'impact d'une réparation chirurgicale du ligament croisé antérieur par technique de cicatrization Ligamys® à la technique standard sur :
 - L'évaluation clinique,
 - Le risque de récurrence de rupture ;
 - Des critères subjectifs d'efficacité (douleur, activité sportive, scores de Tegner, Lysholm et IKDC présentés en *Annexe 6*).
- Evaluer l'impact médico-économique des techniques étudiées à partir des critères suivants : durée hospitalisation, temps opératoire, durée d'arrêt de travail, nombre d'heures de rééducation, délai de reprise d'activité sportive.

Type d'étude : Etude thérapeutique prospective randomisée à deux bras parallèles, multicentrique, ouvert, comparant deux techniques chirurgicales.









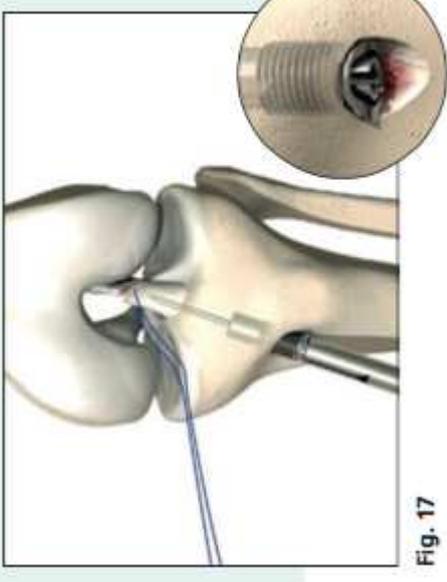
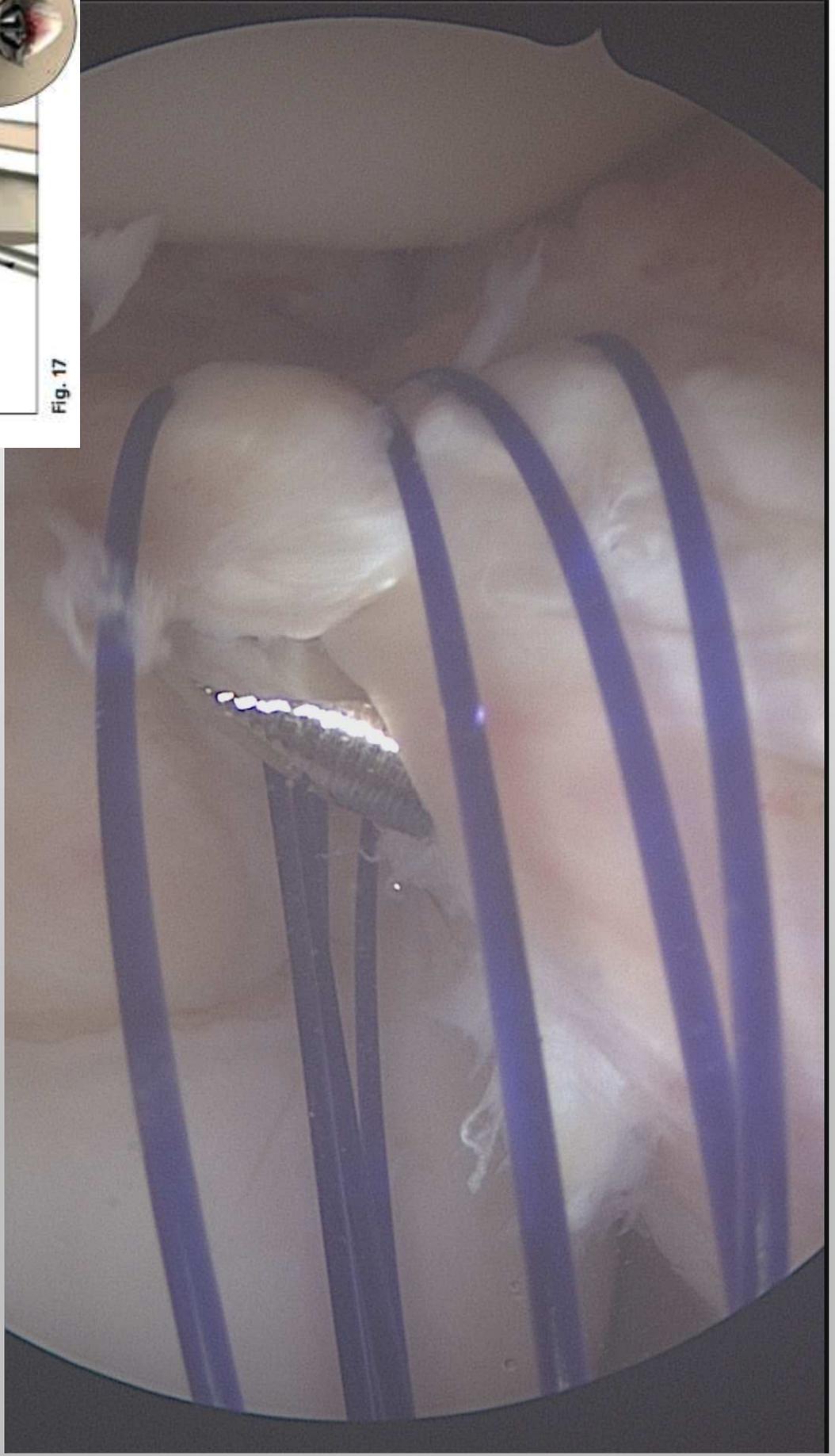
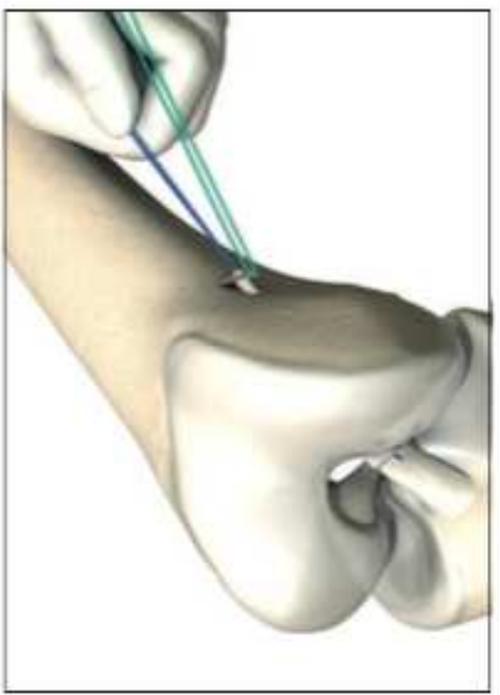
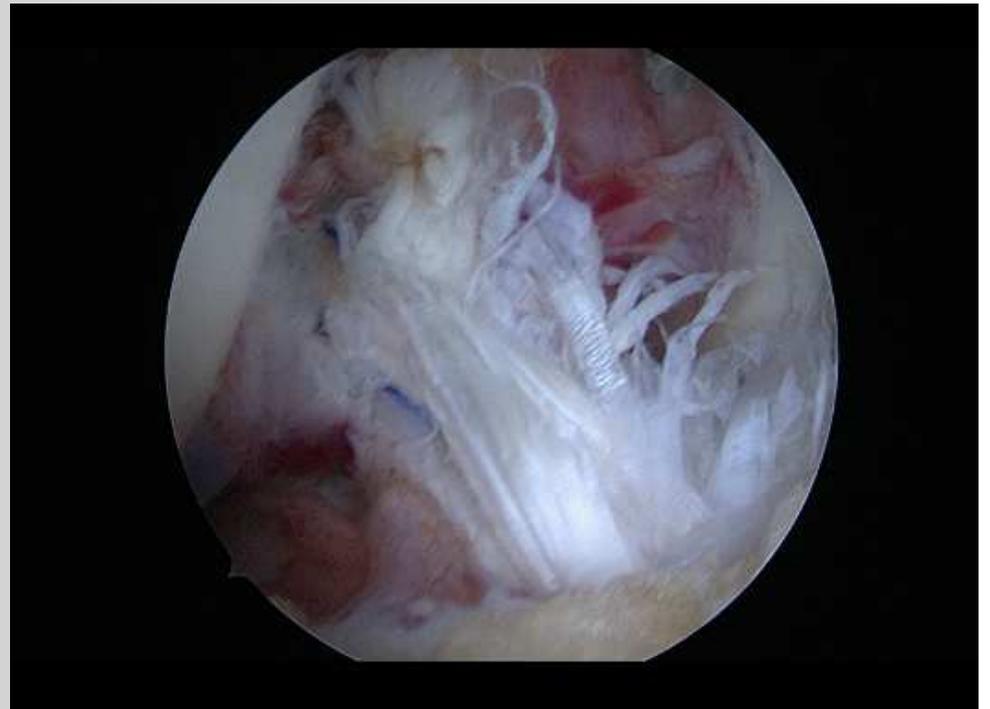


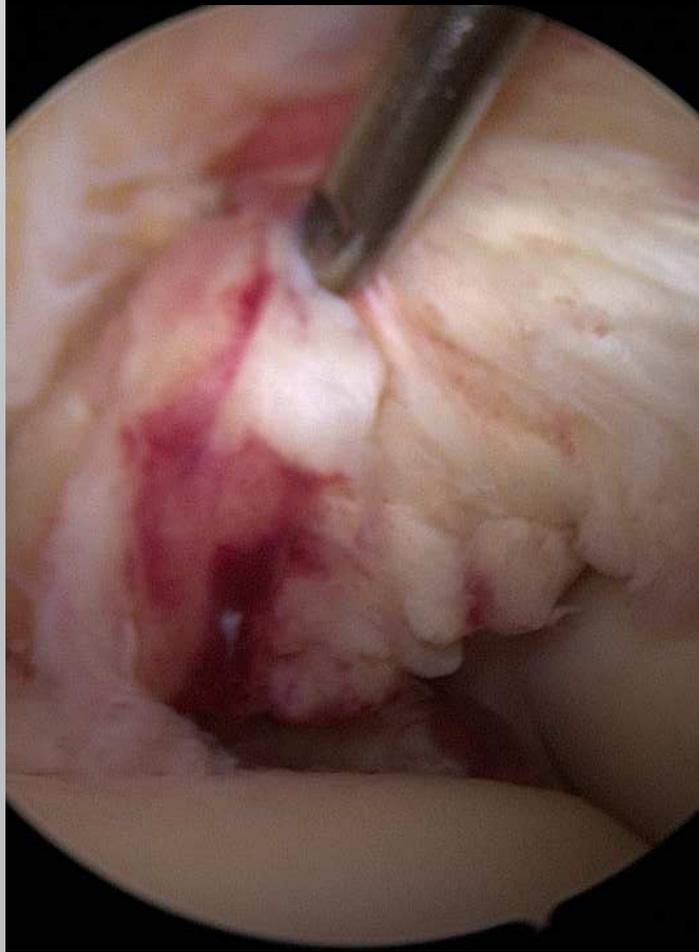
Fig. 17







6 mois : second look





- C'est de la traumato
- < J21
- Lecture IRM



Merci !

<http://iccf.univ-bpclermont.fr/>

Influence of Age on Healing Capacity of Acute Tears of the Anterior Cruciate Ligament Based on Magnetic Resonance Imaging Assessment

Hidetoshi Ihara, MD and Tsutomu Kawano, MD

