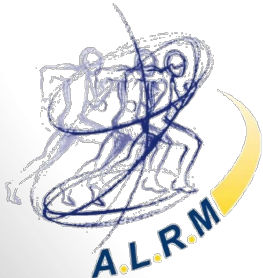
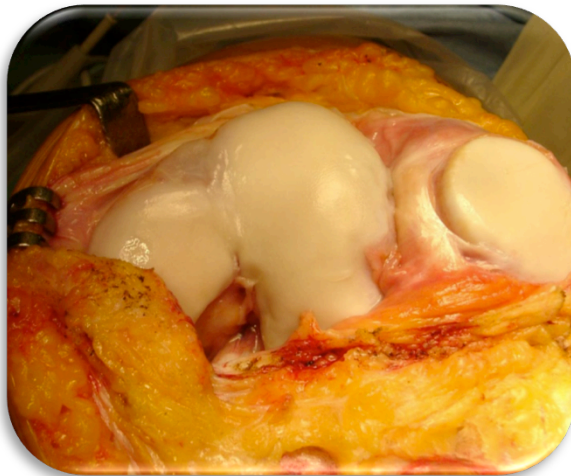


Trochleoplasty

The surgical technique...

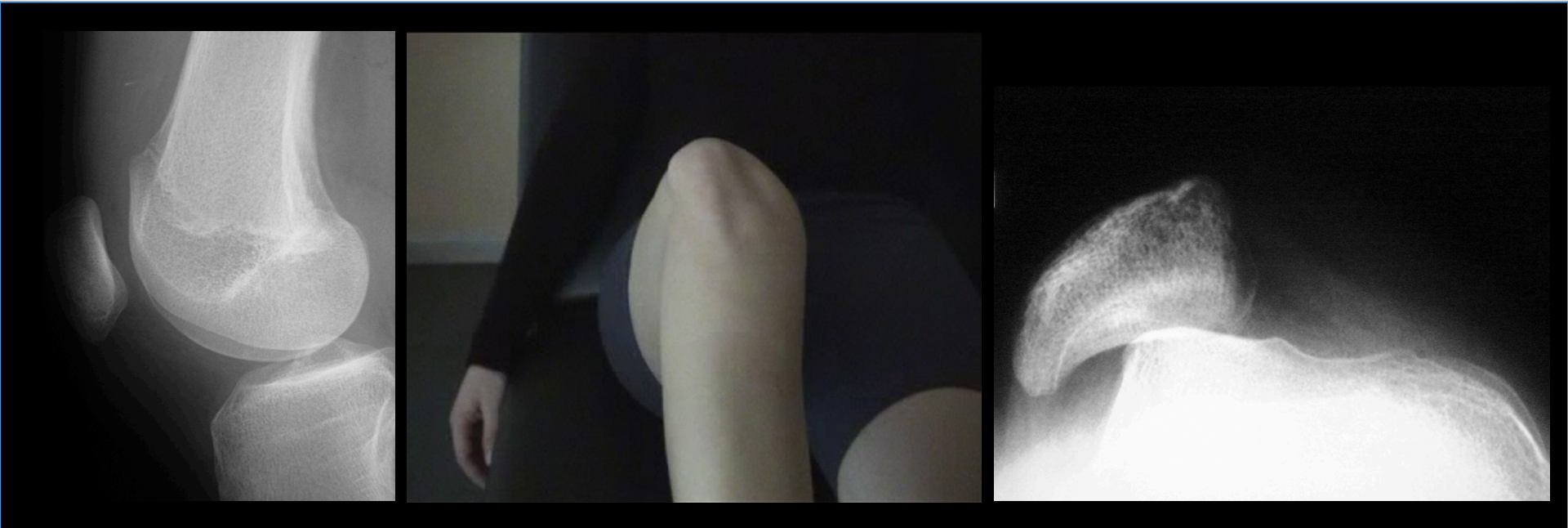


David DEJOUR
LYONORTHOCLINIC
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Why doing a Trochleoplasty ?

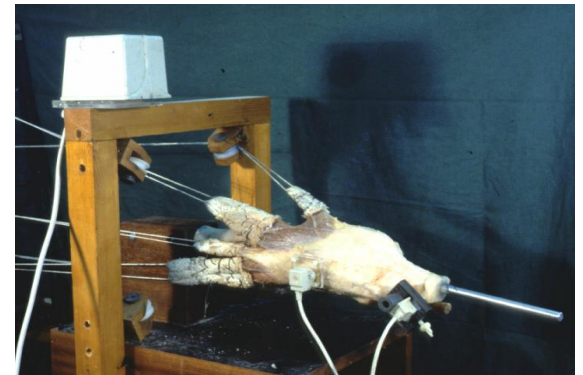
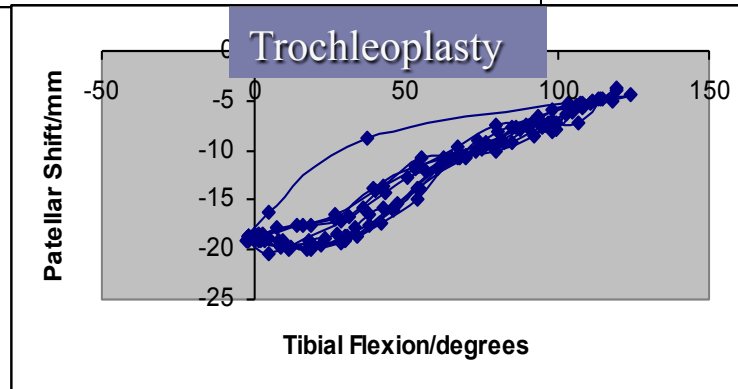
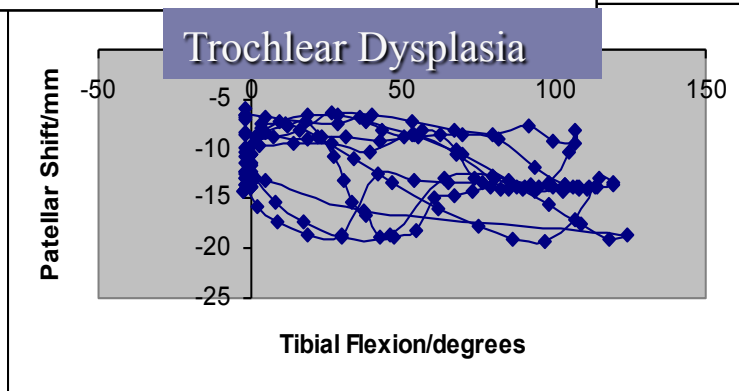
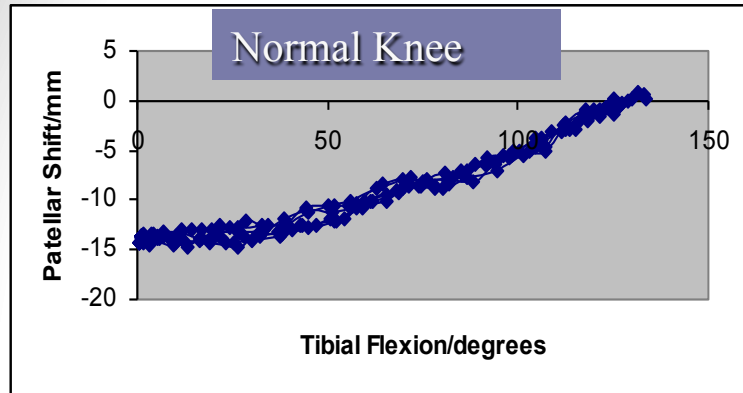


How doing a Trochleoplasty ?

Patellar medio-lateral tracking

*A A Amis, C Oguz , A M J Bull, W Senavongse, D Dejour
JBJS 2008*

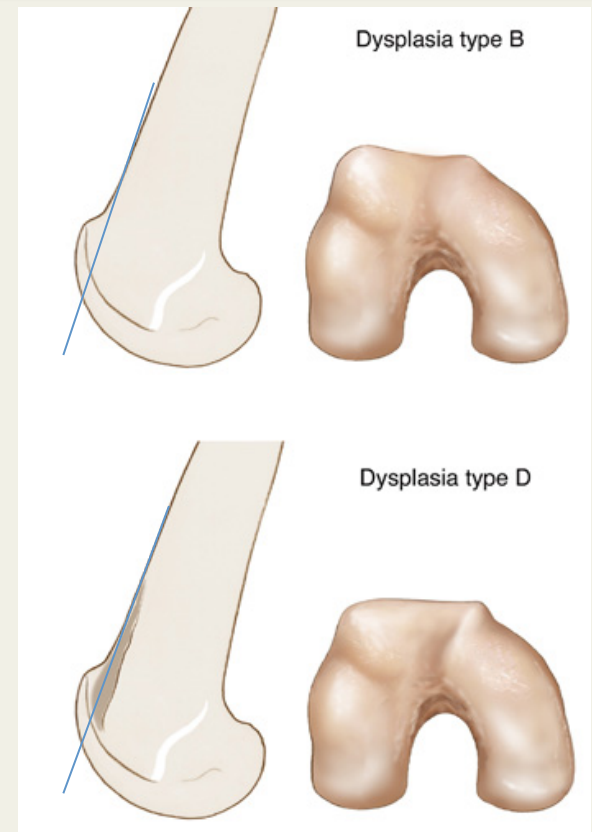
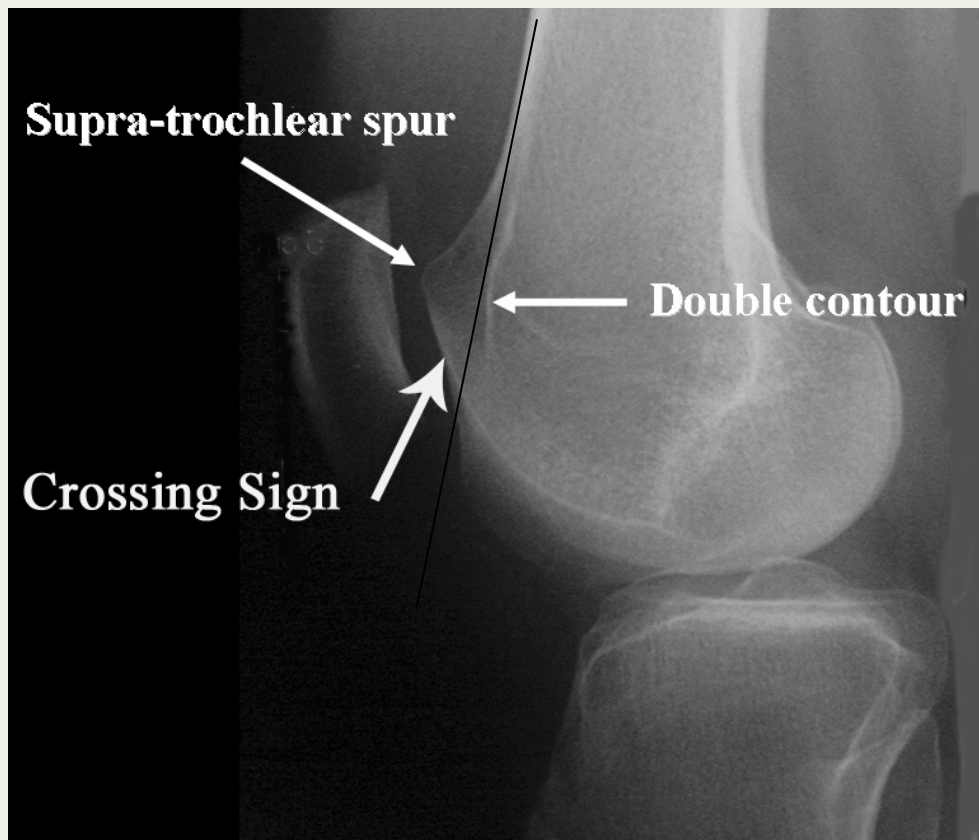
Biomechanical effect on patellar tracking



*A Amis : Imperial College
London (UK)*

Only for **dislocation** !!!!

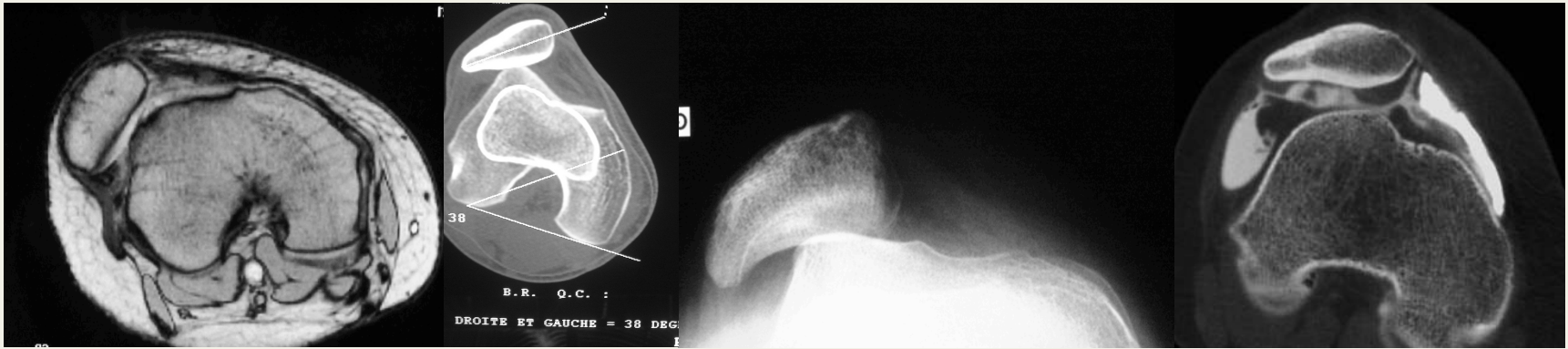
Trochlear Dysplasia Type B and D



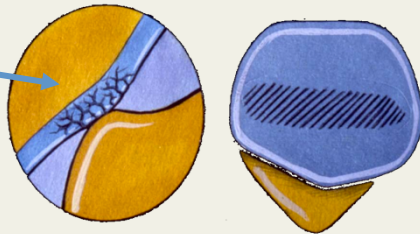
Trochlea Bump +++ impingement with Patella

High grade Trochlear dysplasia

Maltracking : Horizontal plane



Impingement : Sagittal plane

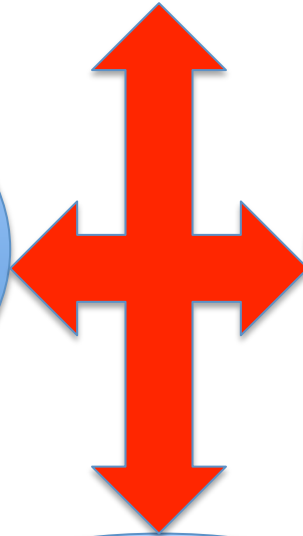


Trochleoplasty

**Elevation
Lateral Facet**

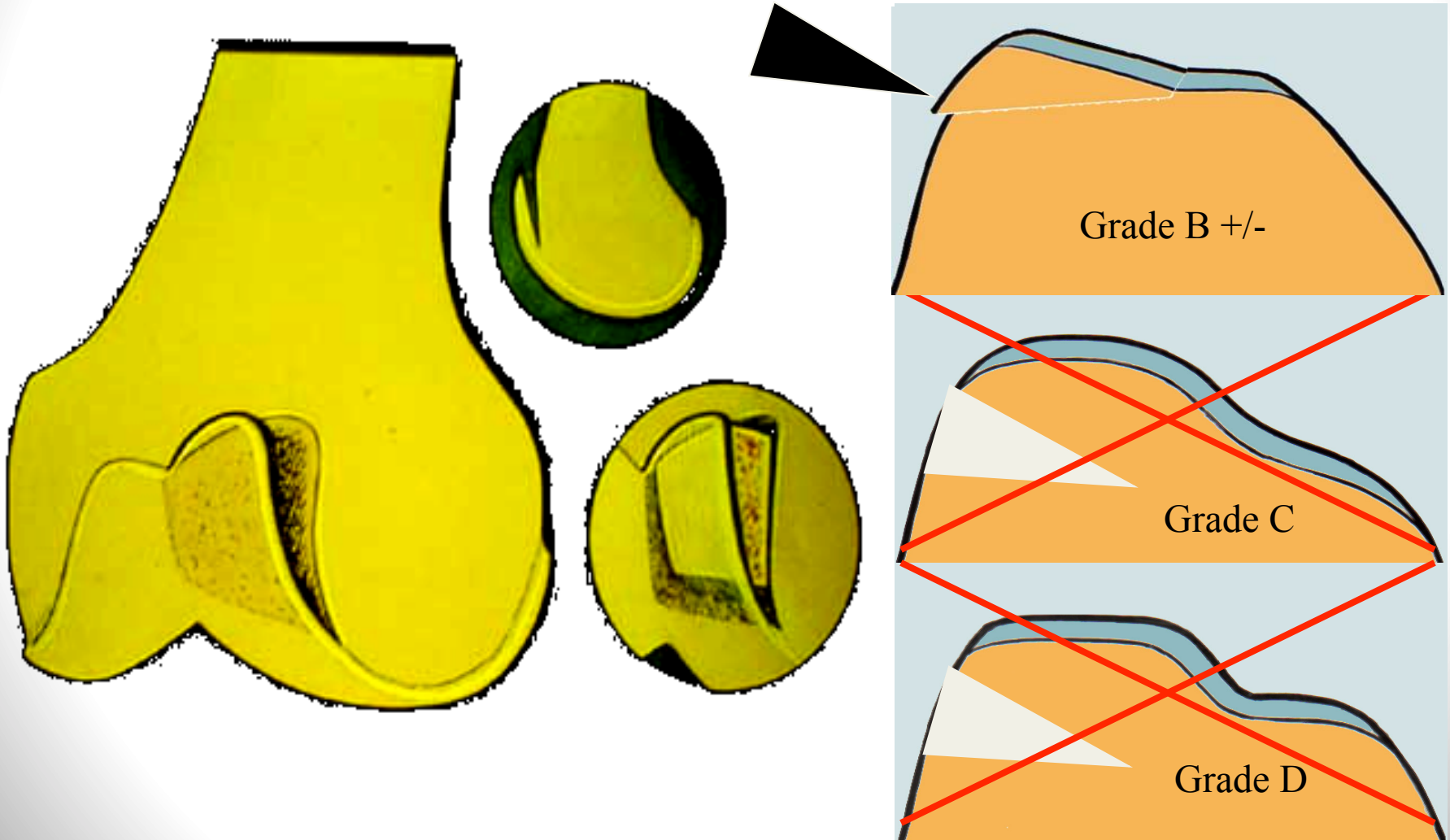
**Closing wedge
trochleoplasty**

**Deepening and
create a groove**



ALBEE Procedure

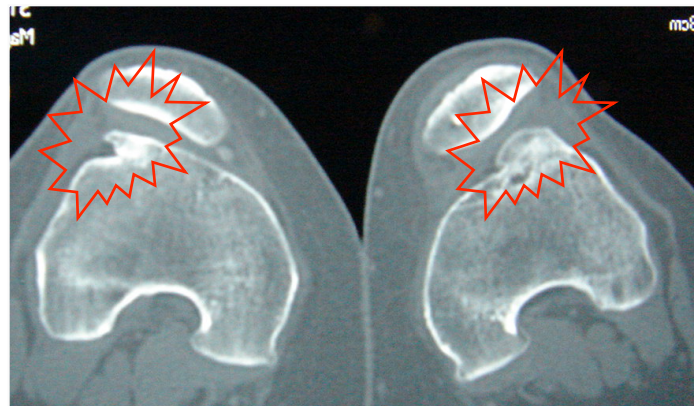
Elevating trochleoplasty



ALBEE Procedure

- **Very efficient : Stability**
- **Good if no proeminence, if short trochlea (Biedert)**
- **Increase lateral pressure**
- **Increase trochlear proeminence**

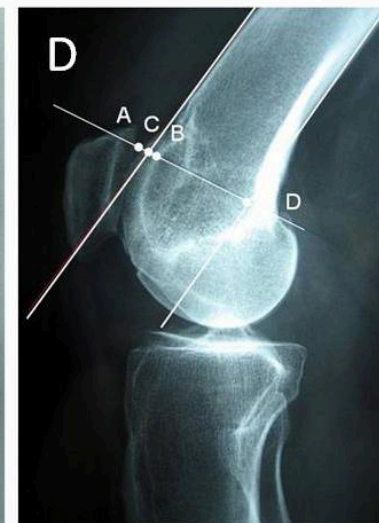
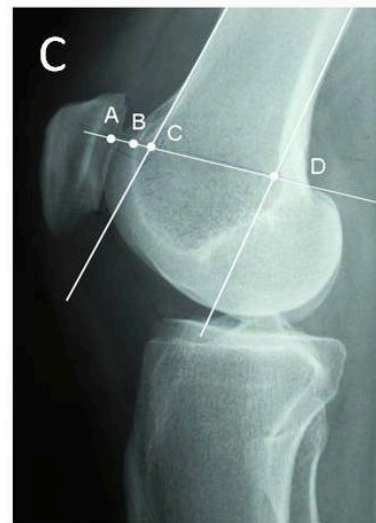
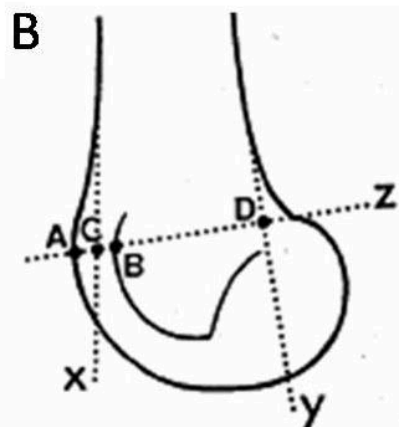
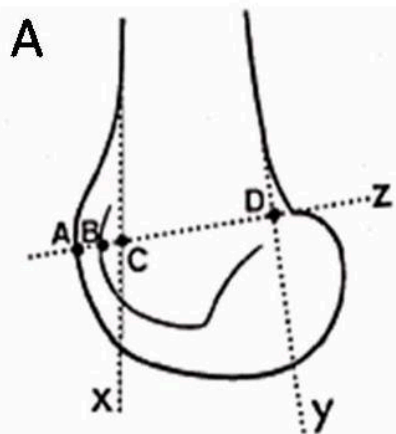
Pain ?? Future arthritis ?? Medial Tilt !!!



Closing Wedge trochleoplasty

Reduce the bump

No change of the trochlear shape

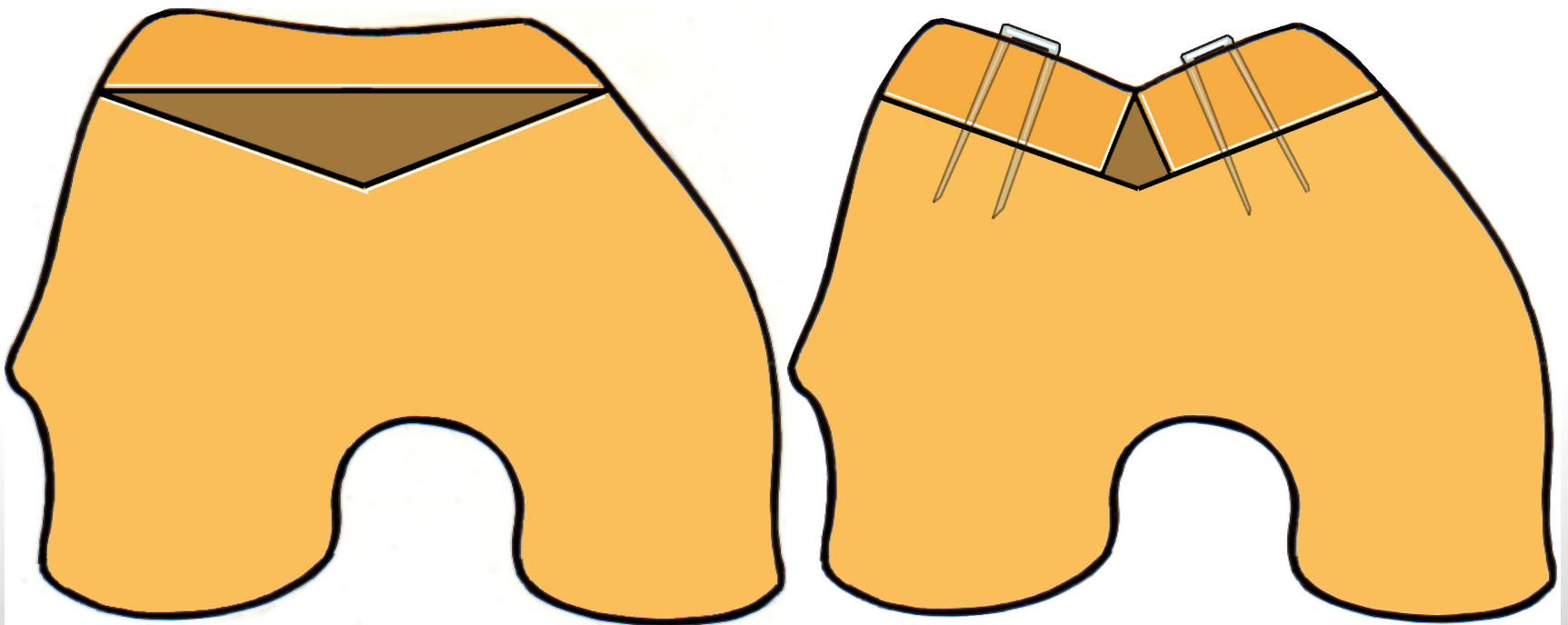


Ph Beaufils

Deepening TROCHLEOPLASTY

H. Dejour 1987 (Masse 1978)

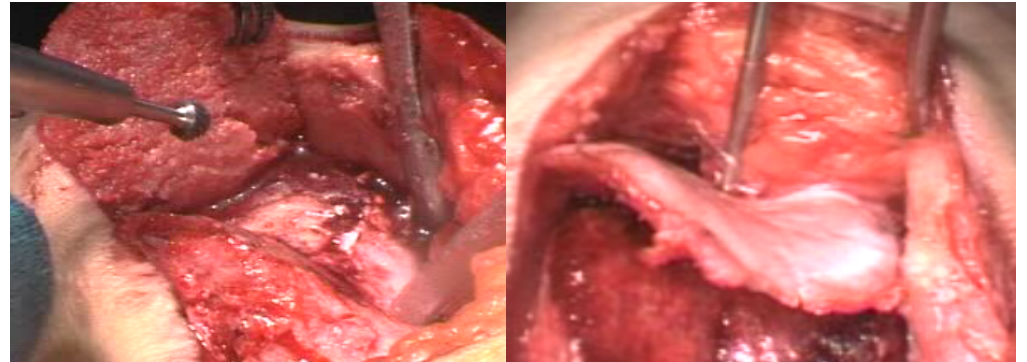
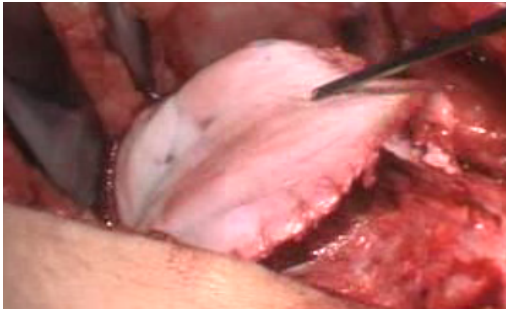
Create a new groove – remove the prominence +++



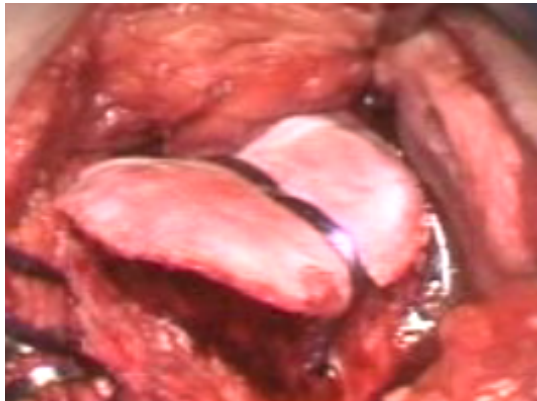
Deepening TROCHLEOPLASTY

H Bereiter technique

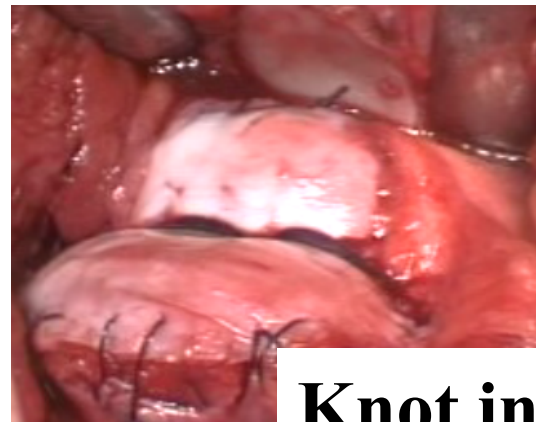
Total Trochlear Flap



Cancellous bone modelling (burr)



PDS Band in the groove



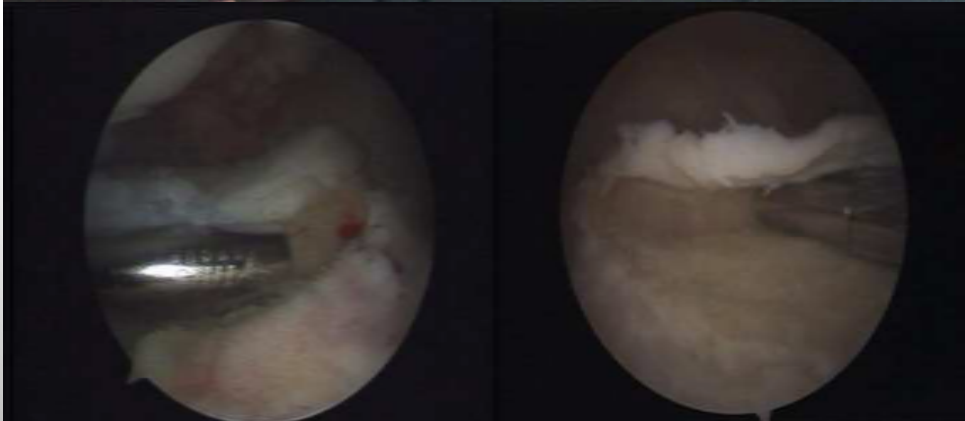
Knot in the gutter under the synovium

Deepening TROCHLEOPLASTY

Arthroscopic Technique Blond-Schottle technique

Blønd L, Schöttle PB.

Knee Surg Sports Traumatol Arthrosc. 2010

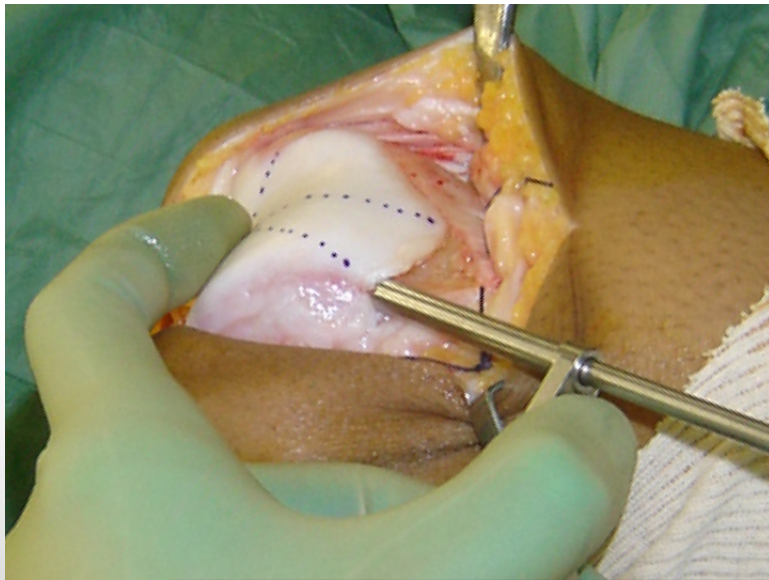


Deepening TROCHLEOPLASTY

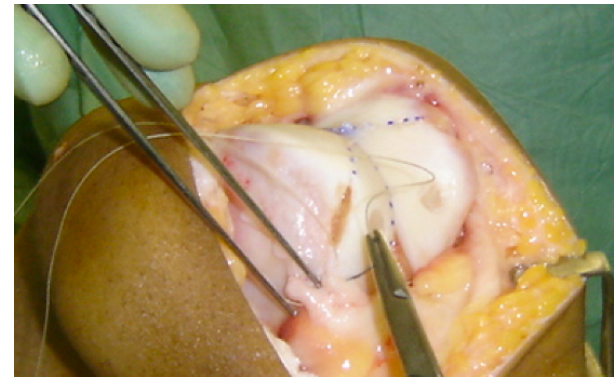
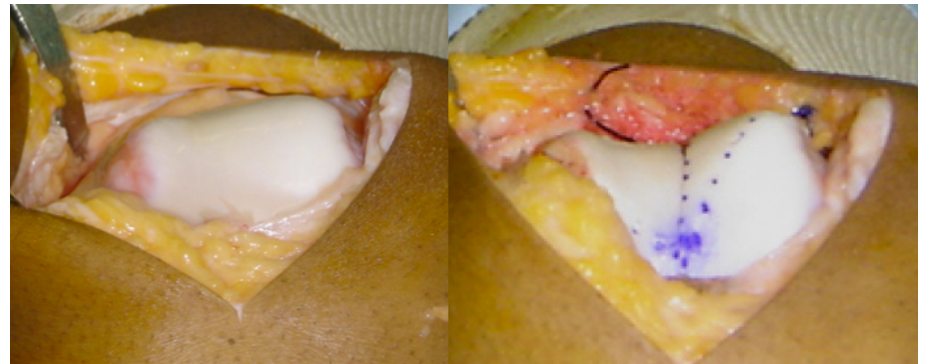
S. Donell technique

[Modified Dejour trochleoplasty for severe dysplasia: operative technique and early clinical results.](#)

Donell ST, Joseph G, Hing CB, Marshall TJ.
Knee. 2006



Arthroscopic control of the bone resection



Courtesy Of S. Donell



Deepening TROCHLEOPLASTY

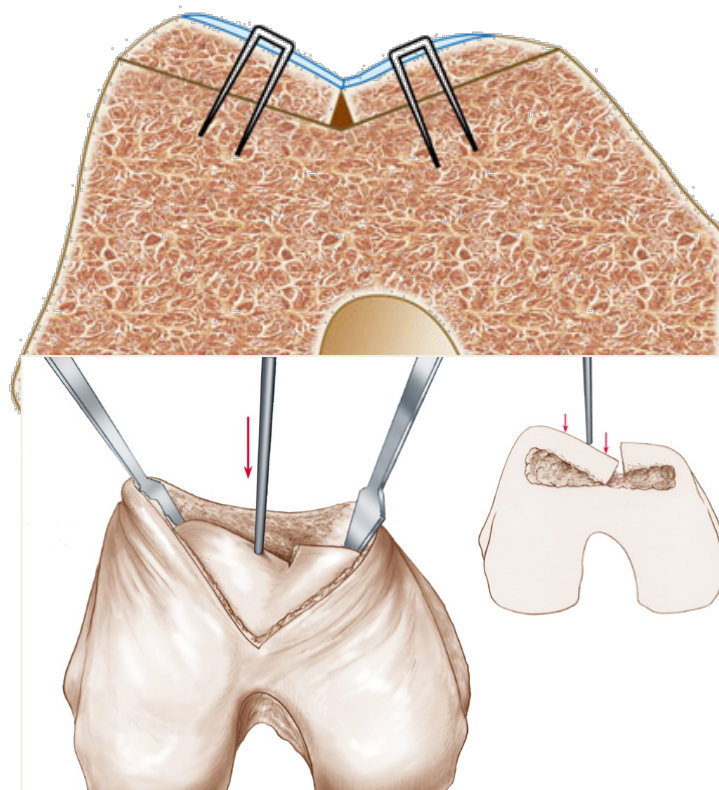
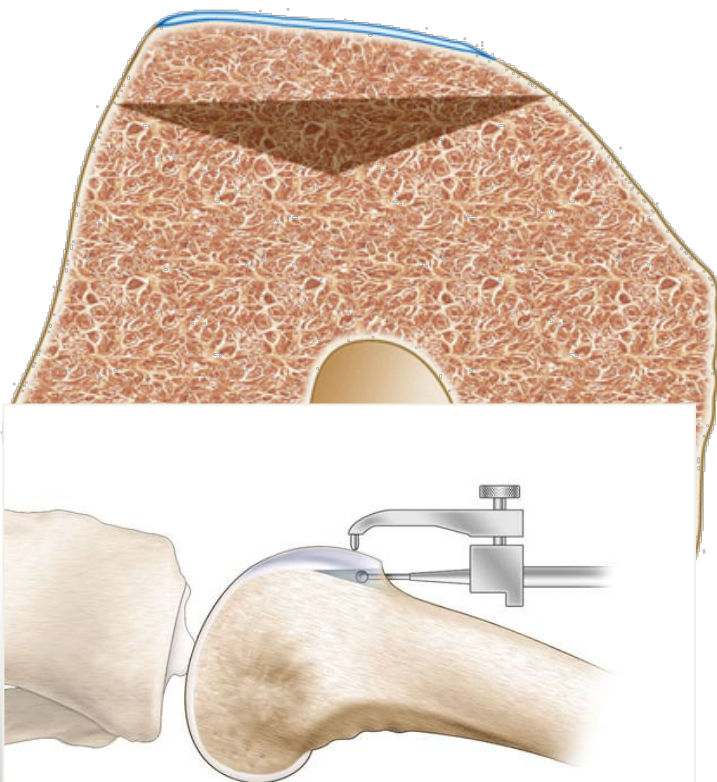
Lyon' Procedure (H. Dejour) 1987

The sulcus deepening trochleoplasty-the Lyon's procedure. Dejour D, Saggin P.

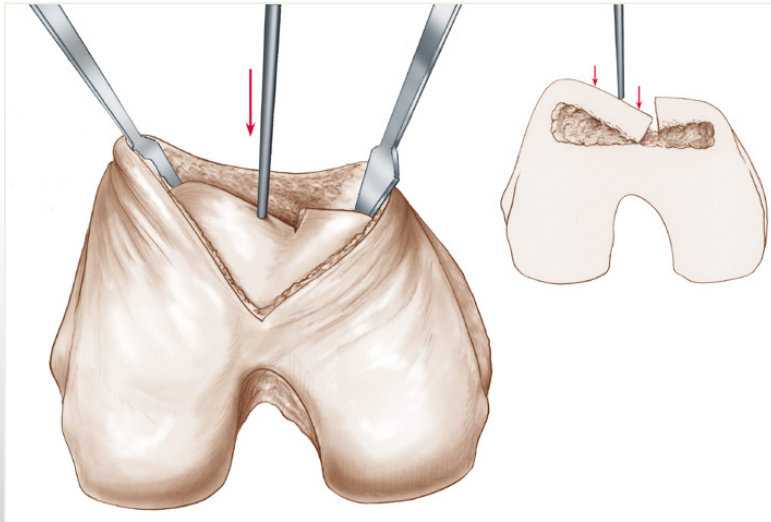
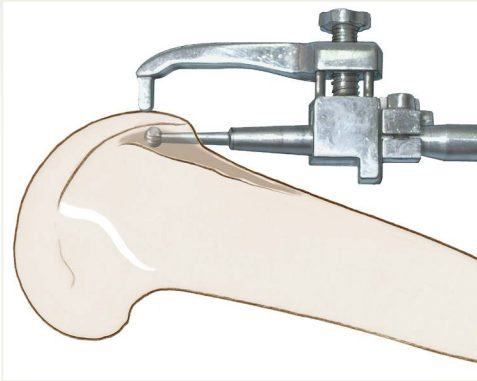
Int Orthop. 2010

Osteotomies in patello-femoral instabilities. Dejour D, Le Coultre B.

Sports Med Arthrosc. 2007



Deepening Trochleoplasty



H. Dejour
1987

The Deepening Trochleoplasty Surgical Procedure

David DEJOUR, MD

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France
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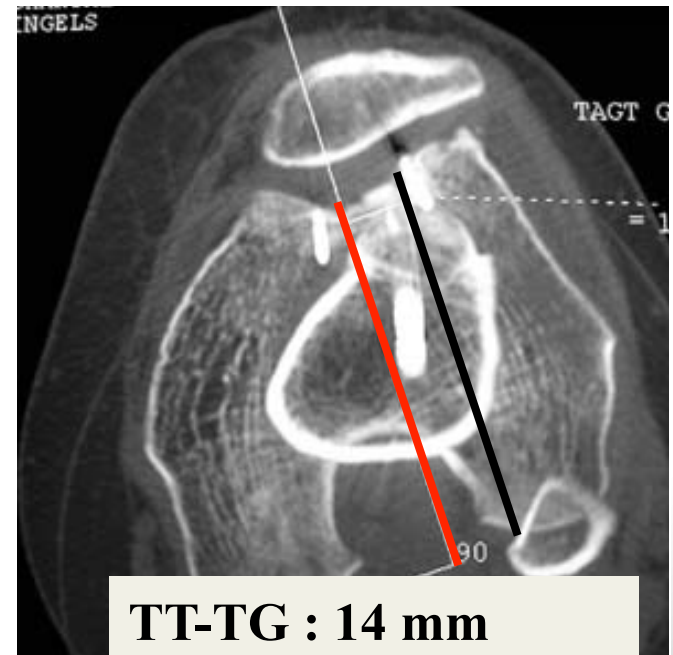
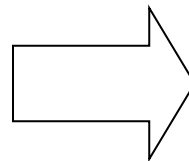
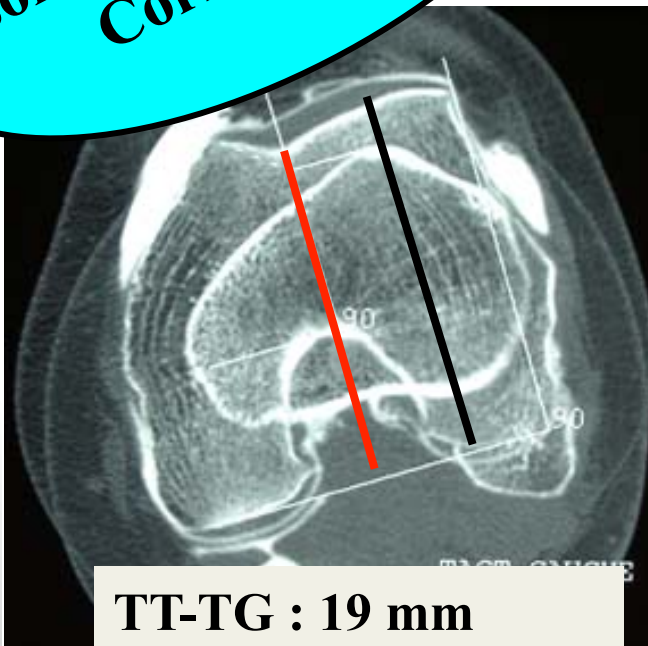


Trochleoplasty effect

Decrease the TT-TG value

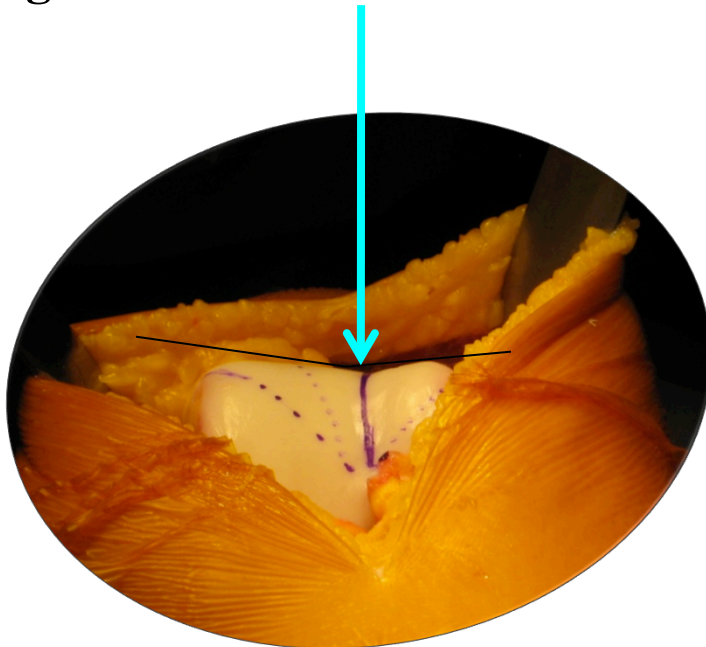
“Trochlear Groove Lateralisation”

Isolated Trochleoplasty
Correct 9 mm



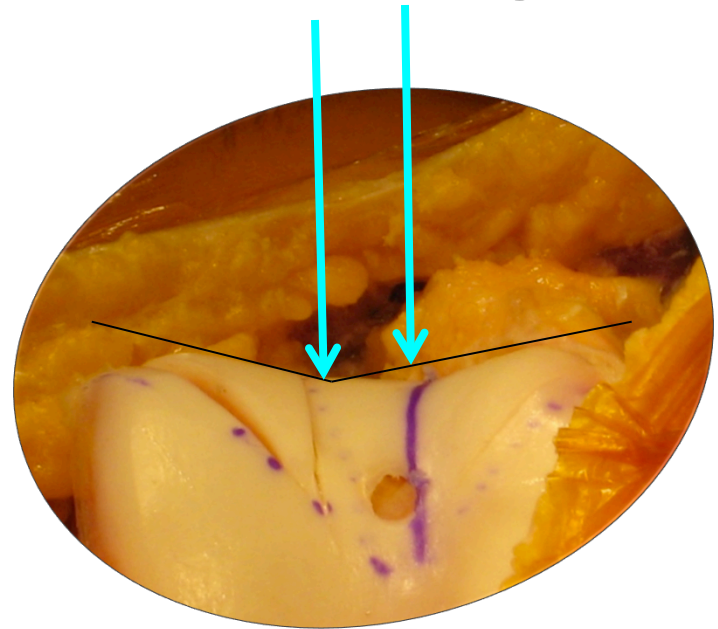
Proximal Re-Alignment

Original Groove



Lateralization of the Groove

Reduce the TT- TG



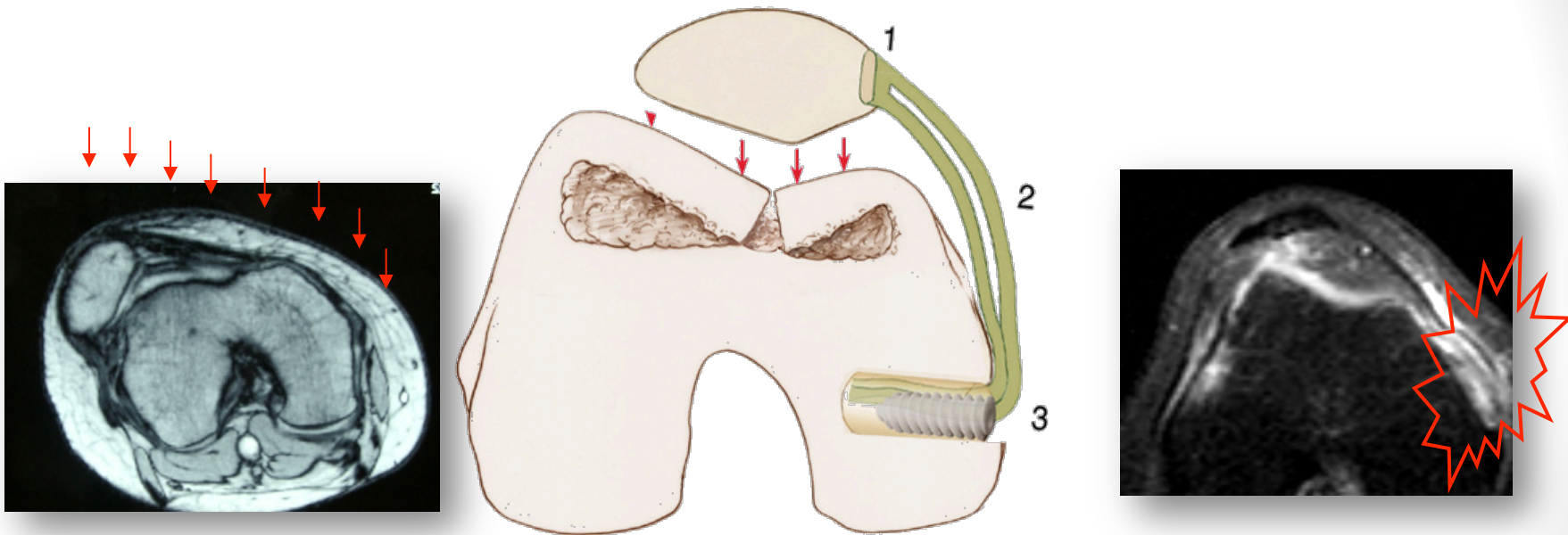
Sulcus angle 172°

Sulcus angle 155°



MPFL has to be repaired !!!

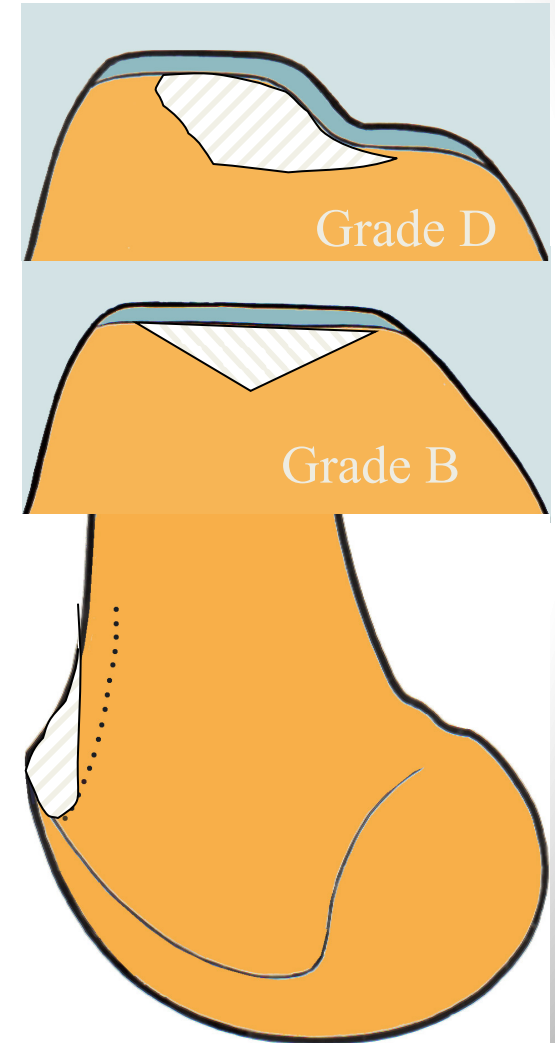
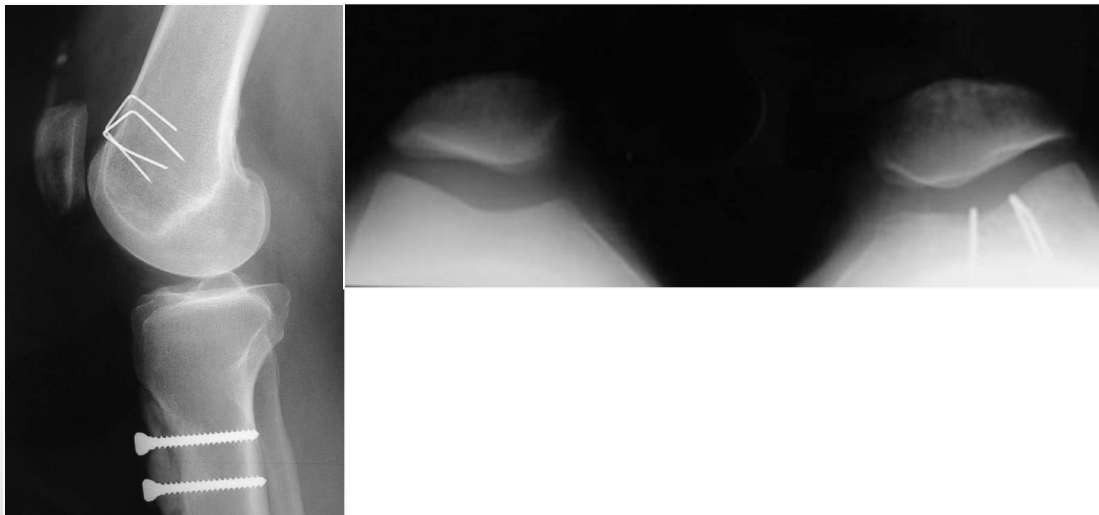
VMO plasty shouldn't be done !!!



As a combined procedure

Indication for Deepening TROCHLEOPLASTY

- Rare & high demanding
- Very efficient on the stability
- Aetiologic
- Indicate for **Type B et D**



FAQ about trochleoplasty ?

- **Cartilage viability ?**

No influence “Shoettle KSSTA 2007”

- **Congruence with the patella ?**
- **Associated instability factors ?**

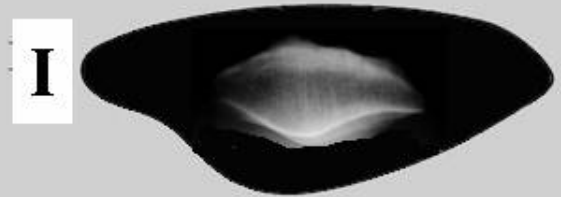
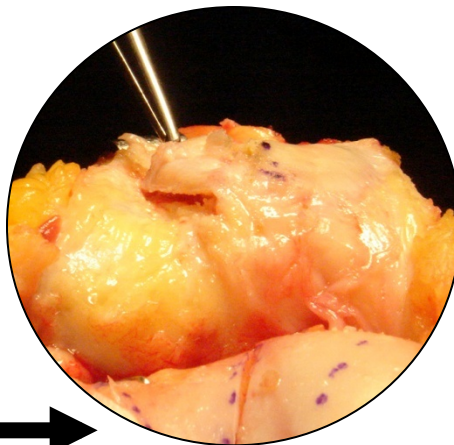
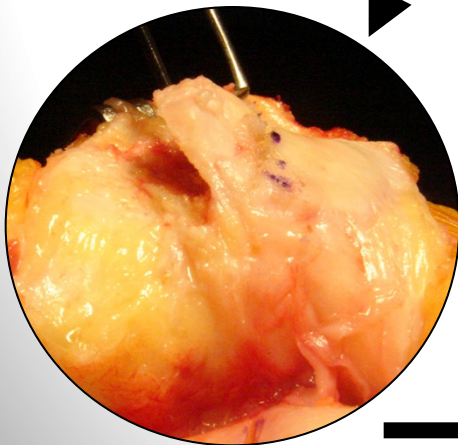
MPFL rupture or distention ++++

Congruence with patella ?

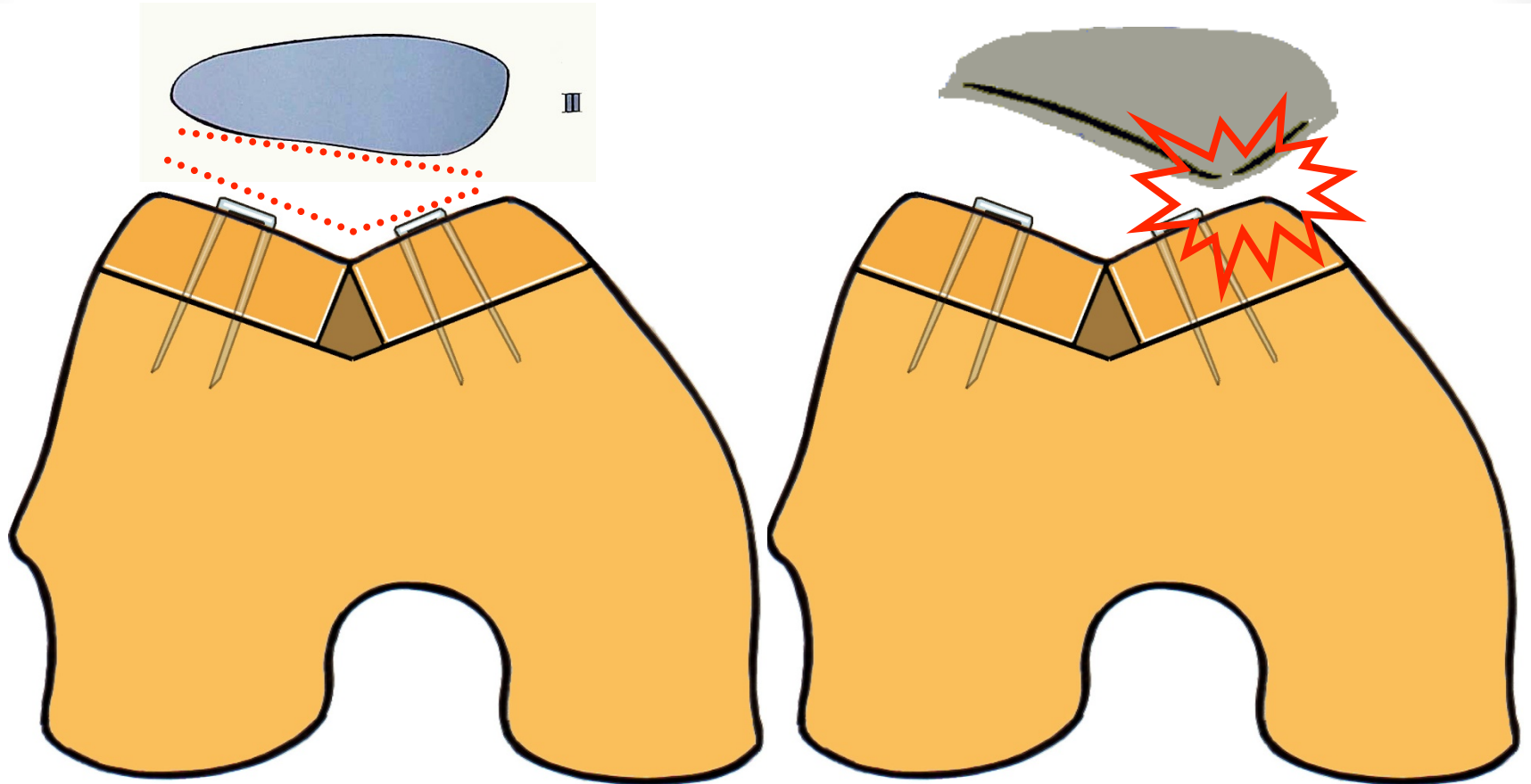
Patellar Dysplasia ?



Patella Osteotomy : **Rare !!!**



Congruence Trochlea - Patella



Be aware of a hypermedialisation !!!!!

Deepening Trochleoplasty

Salvage procedure +++

Difficult population

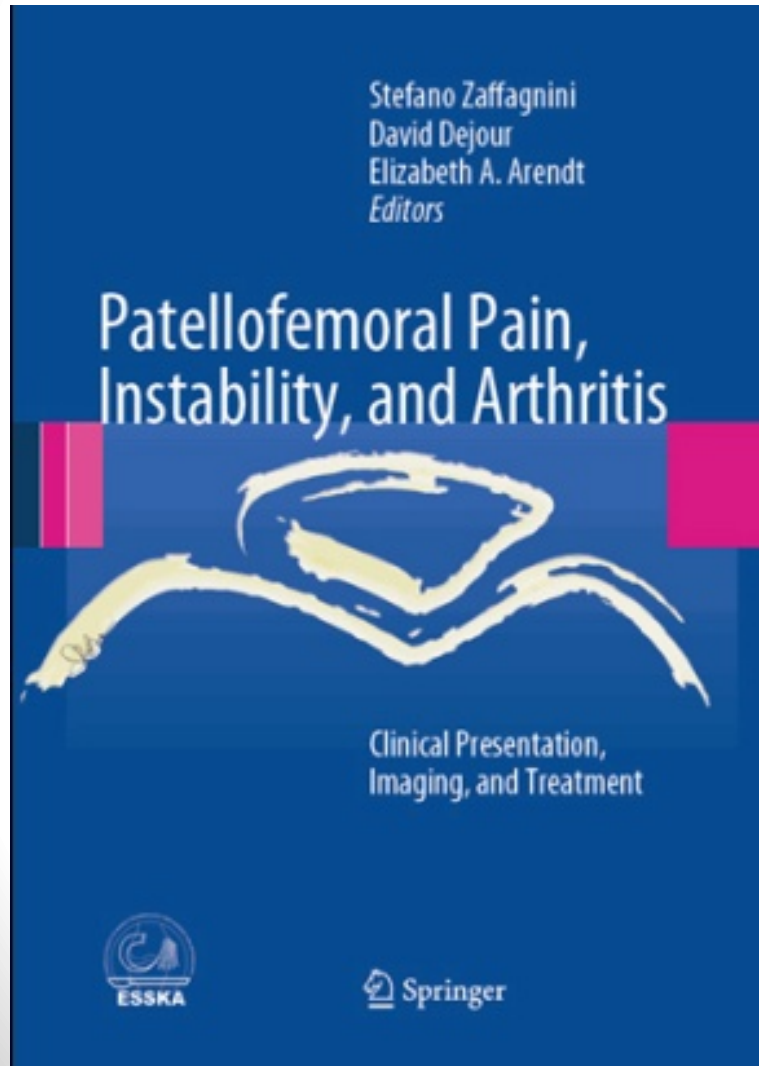
Very efficient on stability +++

Good correction of patellar tilt &



Good and difficult indication dedicated to
very special patients

TWO ways to Know more about...



15⁰ JOURNEES LYONNAISES
DE CHIRURGIE DU GENOU

Scientific Committee : ALRM

La
Patella

LYON 2022
20-22 september
Convention Centre

www.lyon-genou.com

Organization : MCO Congress
27, rue du Four à Chaux - F-13007 Marseille
Contact partenaires : Fabrice GUEZ - fabrice.guez@mcocongres.com
Registration: Viviane Barbarisi - viviane@mcocongres.com
Phone +33 (0)4 95 09 38 00 - Fax +33 (0)4 95 09 38 01

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