

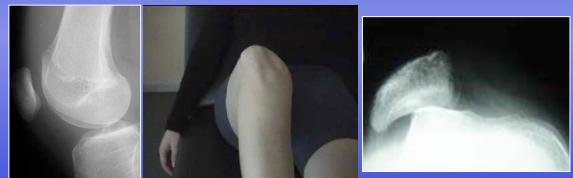
How I do a Trochleoplasty ?



David DEJOUR
COROLYON - FRANCE

Why I do a Trochleoplasty ?

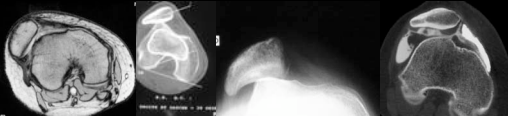
THAT is the question !!!



David DEJOUR
COROLYON - FRANCE

High grade Trochlear dysplasia

Maltracking : Horizontal plane

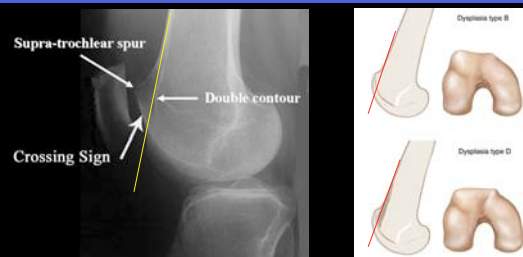


Impingement : Sagittal plane



High Grade Abnormalities

Trochlear Dysplasia Type B and D

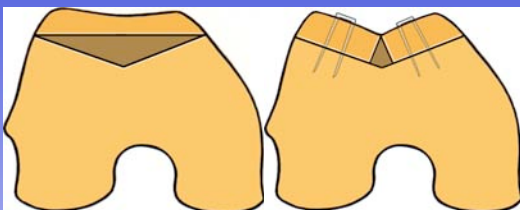


Trochlea Bump +++ impingement with Patella

Deepening TROCHLEOPLASTY

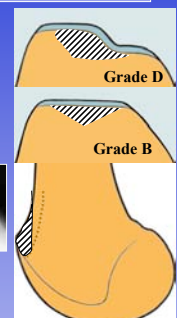
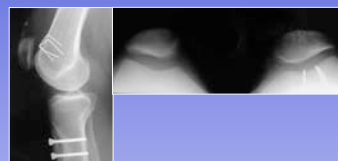
H. Dejour 1987 (Masse 1978)

Create a new groove – remove the prominence +++



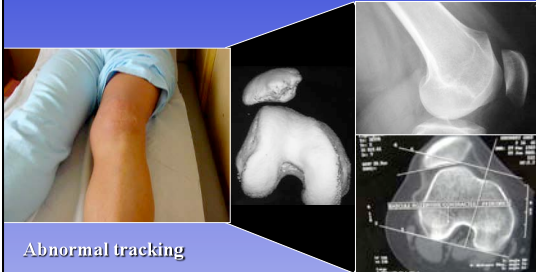
Indication for Deepening TROCHLEOPLASTY

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



High Grade Abnormalities

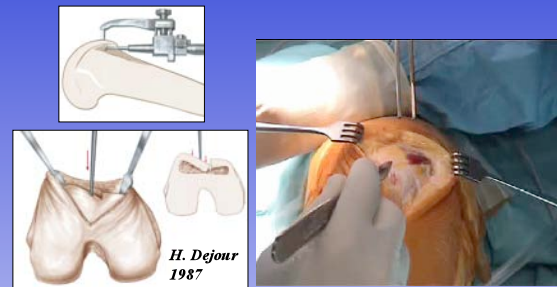
Trochlear Dysplasia Type B and D : Prominence +++



Abnormal tracking

Deepening Trochleoplasty

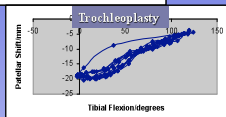
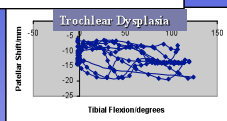
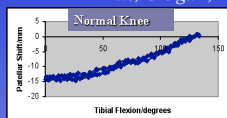
Trochlear Dysplasia Type B and D



H. Dejour
1987

Patellar medio-lateral tracking

A A Amis, C Oguiz, A M J Bull, W Senavongse, D Dejour



Biomechanical effect on
patellar tracking

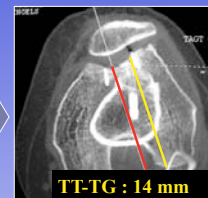
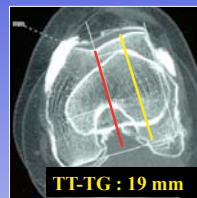


A Amis - Imperial College
London (UK)

Trochleoplasty effect

Decrease the TT-TG value
"Trochlear Groove Lateralisation"

Proximal re-alignment



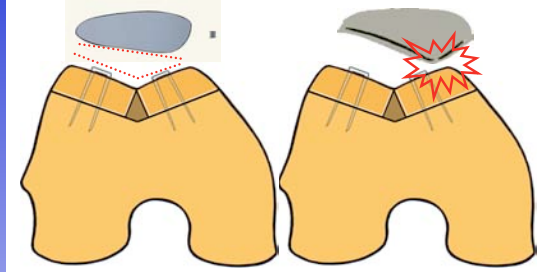
FAQ about trochleoplasty ?

- **Cartilage viability ?**
No influence "Shoettle KSSTA 2007"
- **Congruence with the patella ?**
- **Associated instability factors ?**
MPFL rupture or distention ++++

Congruence with patella ? Patellar Dysplasia ?

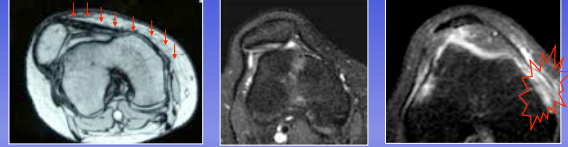


Congruence Trochlea - Patella



Be aware of a hypermedialisation !!!!!

MPFL rupture or distension



Is a constant data in Patellar dislocation

It allows recurrent dislocation...

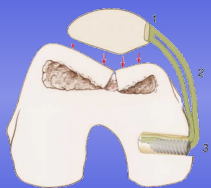
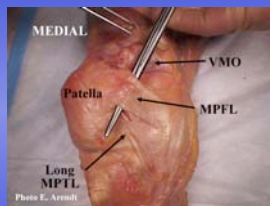
BUT ... It is **ONLY** a dislocation consequence
It is **NOT** a initial instability factor

D. Fithian, A. Amis, E. Arendt, P. Erasmus, J. Fulkerson ...



MPFL has to be repaired !!!

VMO plasty shouldn't be done !!!



As a combined procedure !!!