Slide 1

Patello Femoral Arthritis
PFP How I do ?
Constraint for the treatment

David DEJOUR
LYON FRANCE

ALRM

Slide 2

PF   Arthritis

Aetiology ?

Wear

- Indications
- Technical procedure
- Implant design

Alignment

PF Anatomy

Slide 3
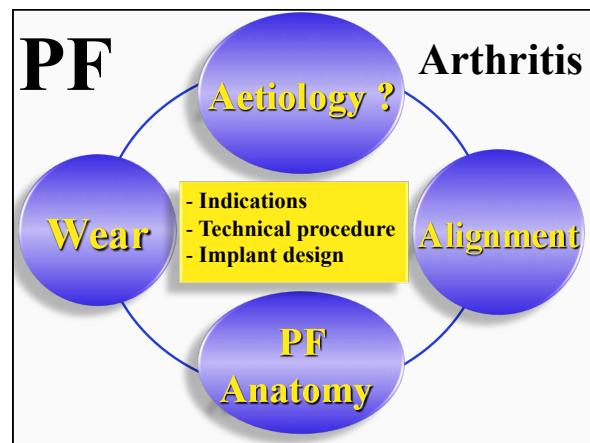
Anatomical factors

Isolated PF Arthritis

D.Dejour, J. Allain & All
French Journal Orthop 2003

Trochlear dysplasia 78 %
$P<0,0059$

Anti Maquet effect

Dysplasia type D

SPR
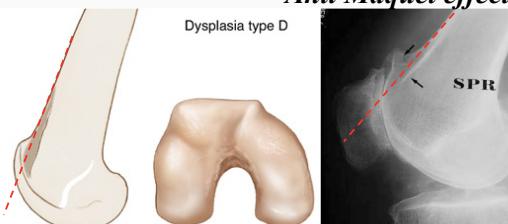
Note : Control population 3 % Patellar instability pop. 96 %

Slide 4

Anatomical factors

Patello Femoral Anatomy
Alignment or Mal alignment

Antero medialisation
(Fulkerson osteotomy)

But TT – TG decrease in elderly people and in PF arthritis…

?

Excessive TT -TG

*Goutallier
French J. Orthop. 1990*

Slide 5
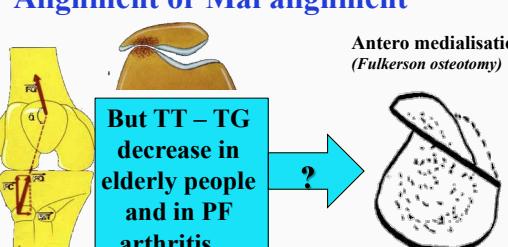
Anatomical factors

Patella Height – Patella Alta

Impingement
lower part of patella and trochlear bump

Slide 6

Anatomical factors

Patella Height – Patella Alta

Lowering Tibial tubercle ?
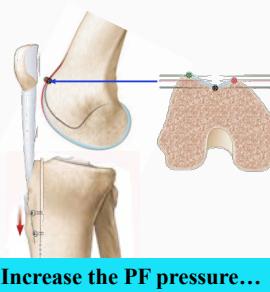
Increase the PF pressure…

1

Technical procedure
General guidelines

Isolated Patello Femoral Arthritis
Guidelines for PFP implant
David Dejour

Patellar Side
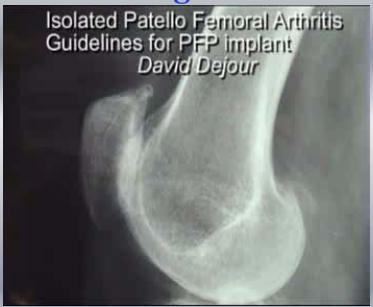
Technical Procedure

What is the right Thickness ?

Be aware of patellar fracture
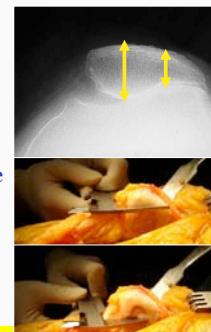
Technical Procedure

Patellar component
Sizing & Positioning

**Medial position
+
Facetectomy**
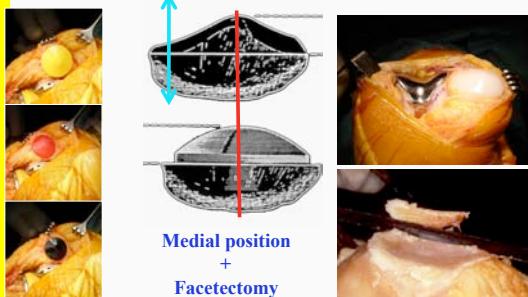
Anatomical factors

Patella Height – Patella Alta
**For PFA
Change position patellar component**

Anatomical factors

No PF Dysplasia

135°
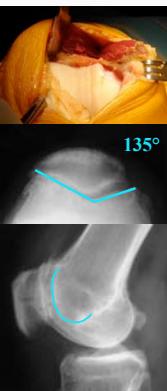
Anatomical dysplasia

165°

Anatomical factors

No dysplasia	Dysplasia
• None implant treatment possible	• None implant treatment hazardous ???
• Patellar balancing easy	• Patellar balancing tough !
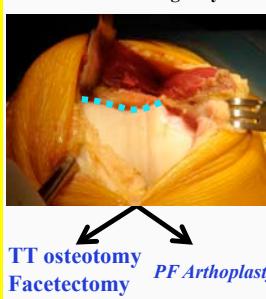
**TT osteotomy
Facetectomy**   *PF Arthoplasty*
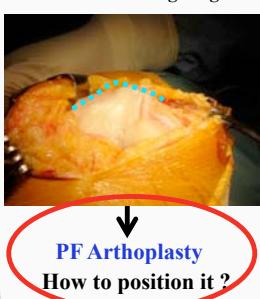
**PF Arthoplasty
How to position it ?**

Technical Procedure

Remove the bump and correct the trochlear dysplasia

Proximal realignment Decrease the TT – TG

PF Arthoplasty (metallic trochleoplasty)

Technical Procedure

Lateral PFcompartment

Should we do lateral release ?

Decrease the lateral retinaculum tension

?

Lateral facetectomy
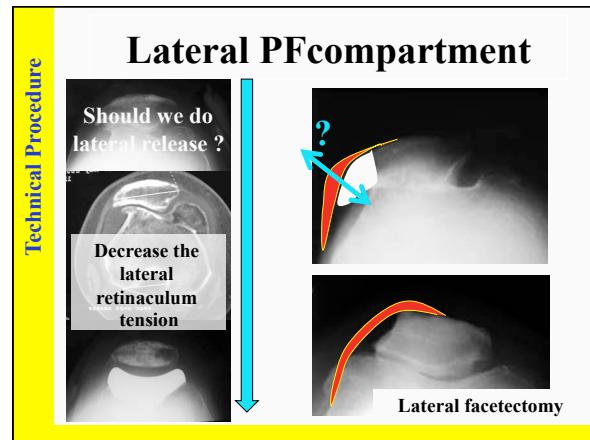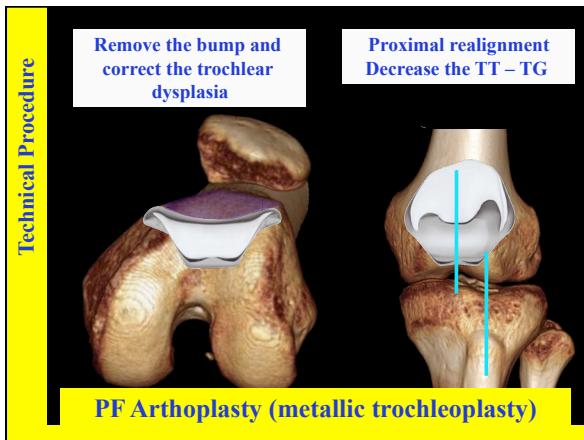
P F   A R T H R I T I S

The Two principal data's May Influence…

Indication

Technical procedure

if patellar dislocation history

Less global arthritis

Good indication for partial treatment
Conservative or PFA

1 / Correct malalignment

Proximal   Distal

Trochlea orientation

Tibial T. Medialisation

2 / Correct Trochlear dysplasia

High grade → Replacement

D.DEJOUR