



Lateral approach to the valgus knee

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A good exemple ...

- 65 yo
- Septic history : tibial abcess when she was child.

Was treated with ATB and surgical drain.

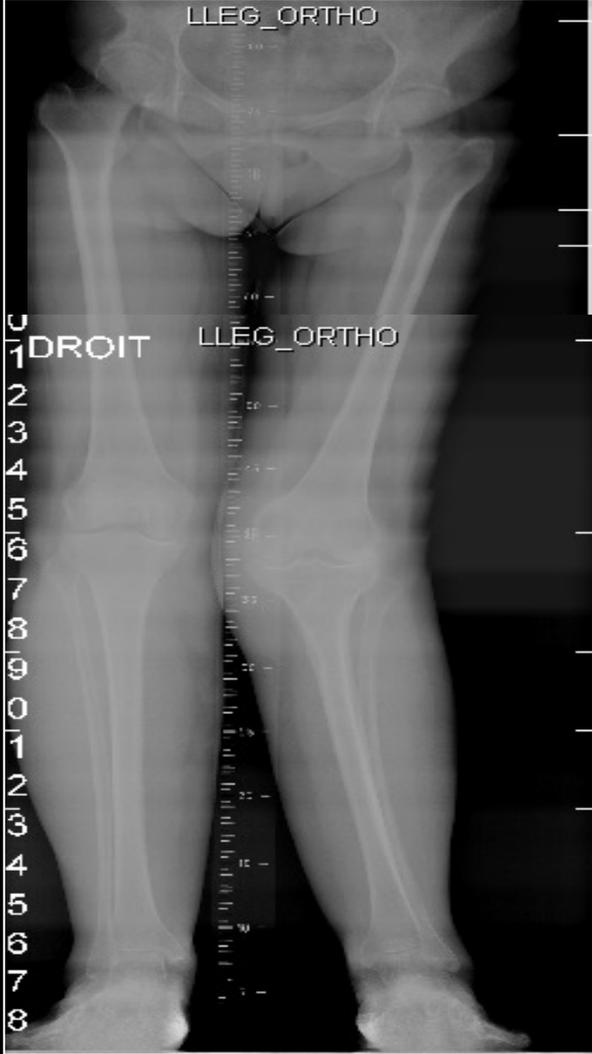
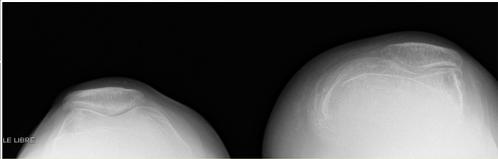
- Has always been limping and walking with valgus alignment of her left leg.
- Severe pain since 3 years.

PHYSICAL EXAMINATION

- BMI 27
- ROM: 0/0/120
- Asymmetrical valgus
- No reducibility
- No sagittal or frontal laxity

- CRP and ESR normal

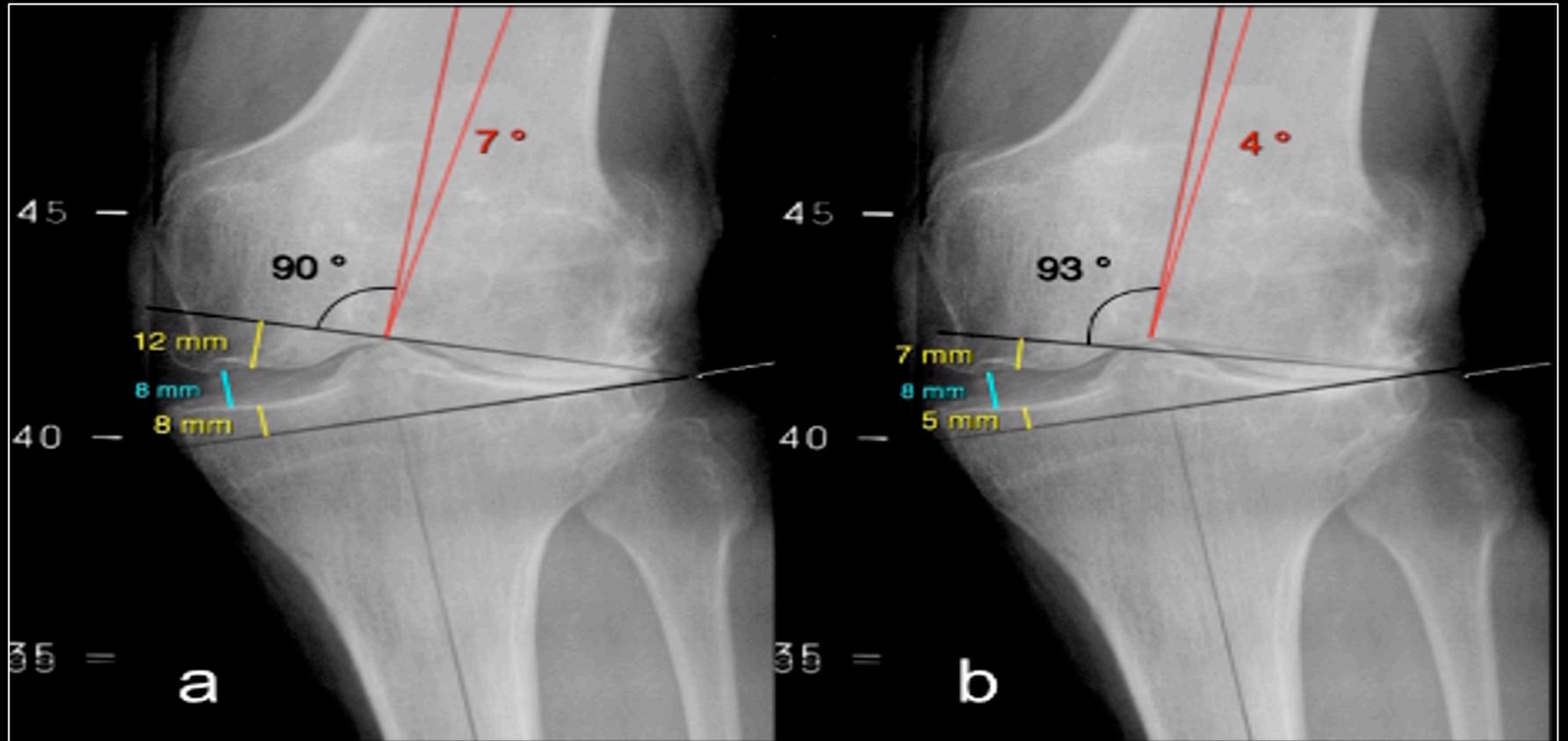
PREOPERATIVE XRAYS



STRESS XRAYS - NO REDUCIBILITY



The problem ?



Soft Tissue Balancing in Total Knee Arthroplasty

Shuichi Matsuda
Sébastien Lustig
Willem van der Merwe
Editors



Clin Orthop Relat Res. 1991 Oct;(271):52-62.

The lateral approach to the valgus knee. Surgical technique and analysis of 53 cases with over two-year follow-up evaluation.

Keblish PA¹.

Peter Keblish



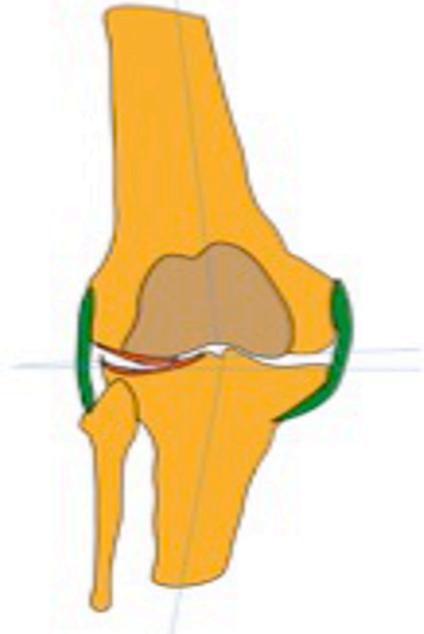
Valgus Knee: Severe Cases Included

10

Jaroslav Czekaj, Timothy Lording, and Sébastien Lustig

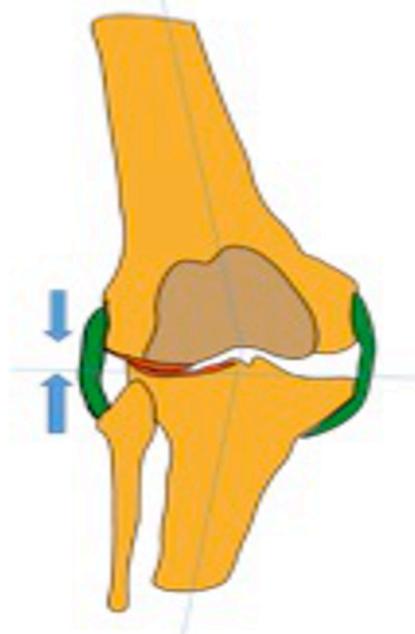
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Different stage of Valgus



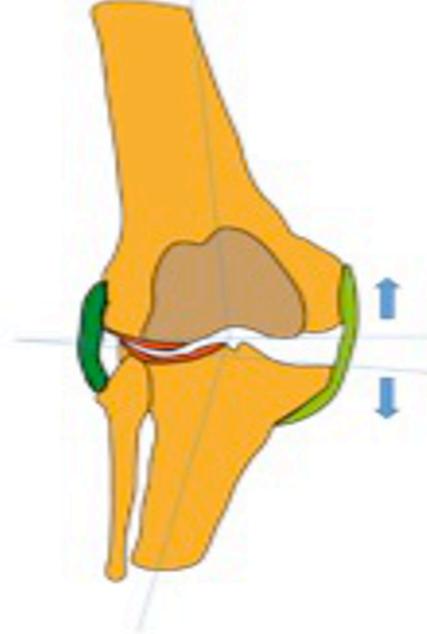
Stage I

Without retraction of lateral structures



Stage I

With retraction of lateral structures



Stage II

Distention of MCL



Stage III

Extraarticular deformation

Valgus Knee

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graph TD; A[Valgus Knee] --> B[Medial Approach]; A --> C[Lateral Approach]; B --> D[Stage I]; D --> E[Correctible deformity]; D --> F[No fixed flexum]; C --> G[Stage I]; G --> H[Rigid deformity]; G --> I[Fixed flexum]; C --> J[Stage II]; J --> K[Major deformity]; J --> L[Medial Laxity];
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Medial Approach

Stage I

Correctible deformity
No fixed flexum

Lateral Approach

Stage I

Rigid deformity
Fixed flexum

Stage II

Major deformity
Medial Laxity

ORIGINAL PAPER

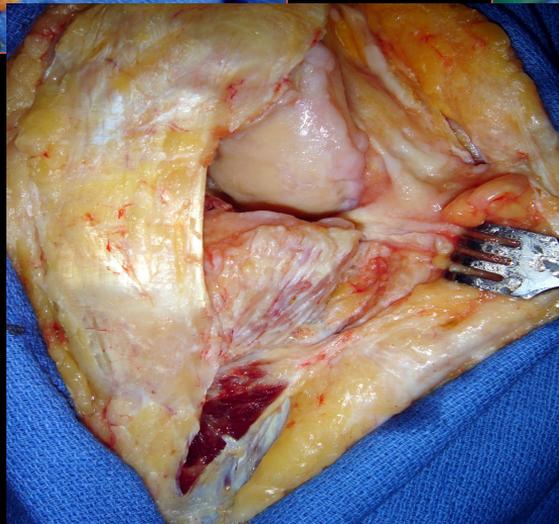
Equivalent results of medial and lateral parapatellar approach for total knee arthroplasty in mild valgus deformities

Stanislas Gunst¹ • Vincent Villa¹ • Robert Magnussen² •
Elvire Servien¹ • Sebastien Lustig¹ • Philippe Neyret¹

n = 327

3.4y FU

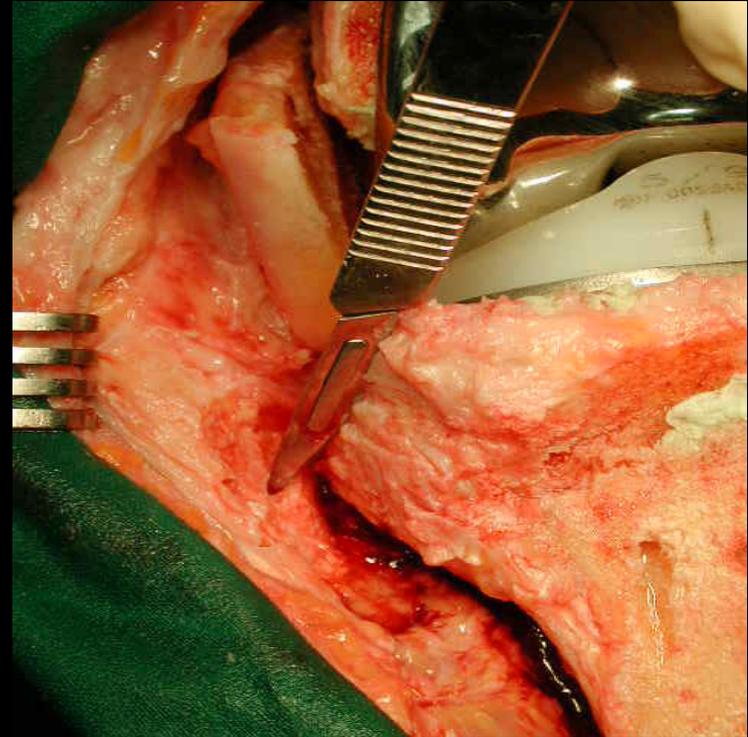
LATERAL APPROACH



- Patella eversion = difficult
- +/- ATT elevation

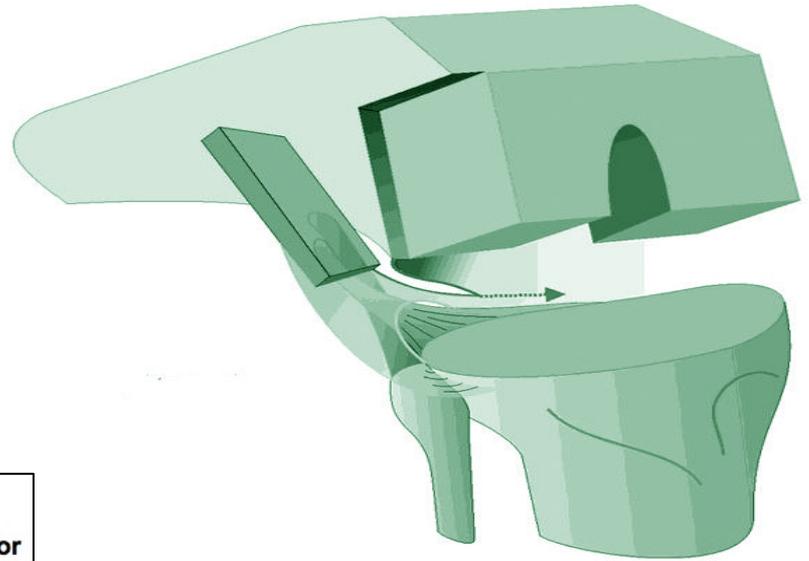
Lateral Release

- Fascia lata « Pie Crust »



Condylar sliding osteotomy

- GAP balancing in flexion and extension
- = controlled release of lateral structures



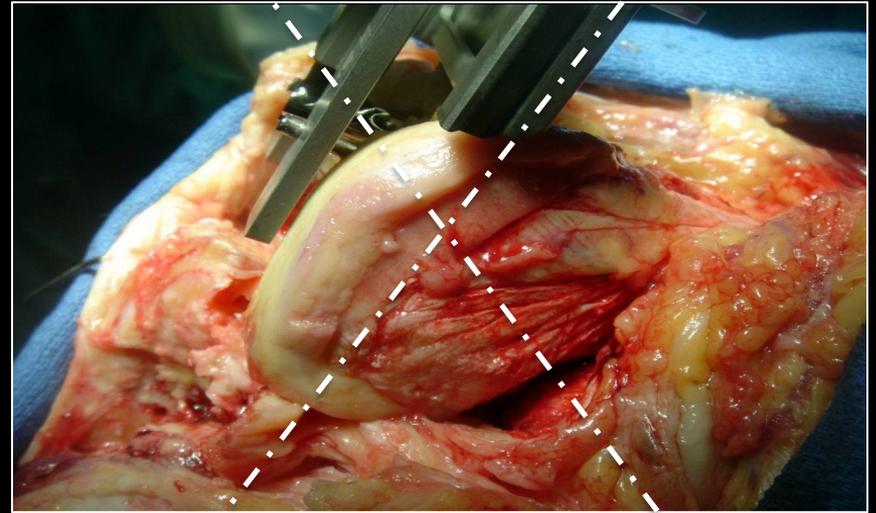
J Bone Joint Surg Br. 2002 Nov;84(8):1131-7.

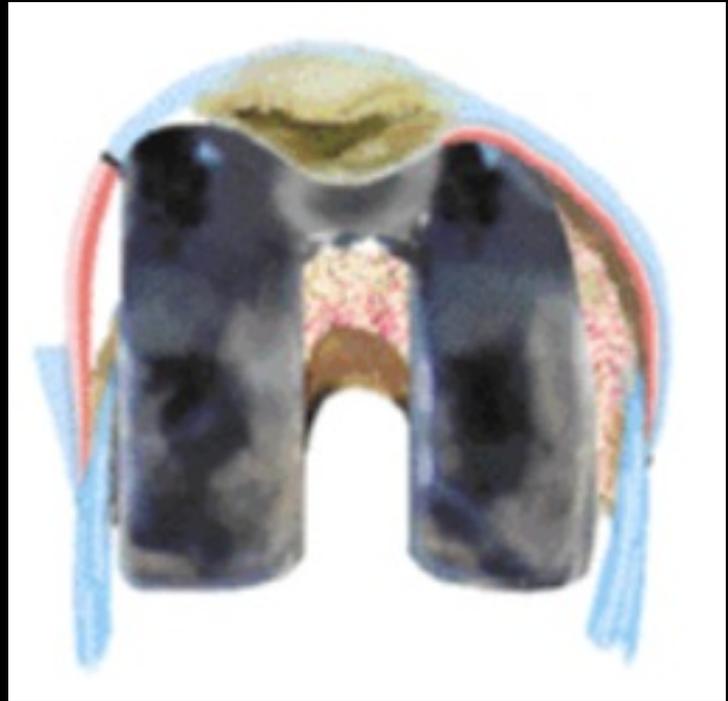
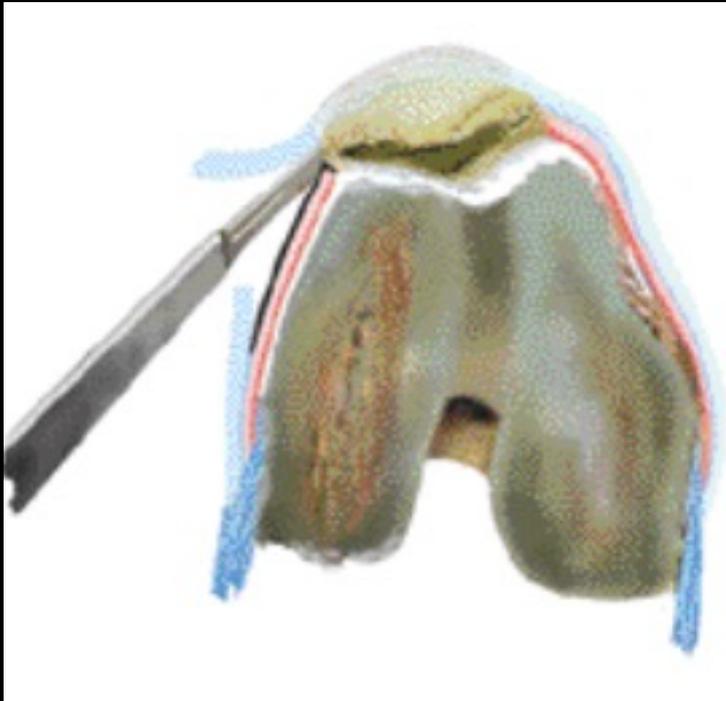
Lateral femoral sliding osteotomy lateral release in total knee arthroplasty for a fixed valgus deformity.

Brihault J¹, Lautman S, Favard L, Burdin P.

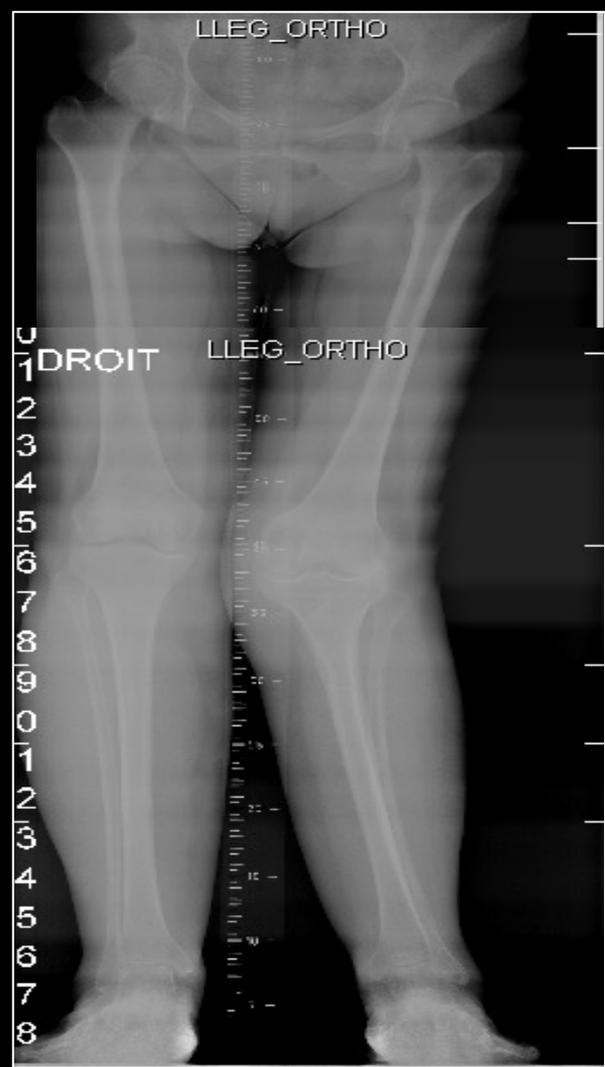
Lateral Condyle « sliding » osteotomy

- Release LCL and popliteus





The answer ?



POSTOPERATIVE XRAYS

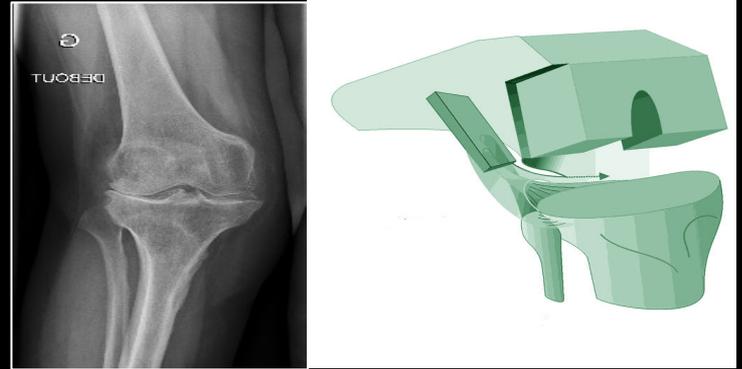
- Lat approach
- PS TKA
(no CCK or hinge)
- Lat condyle sliding osteotomy



Take Home Message

BALANCING THE VALGUS KNEE

- Step by step approach
- Understand the deformity
- Lateral approach
- Step by step release





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LYON KNEE
SCHOOL of SURGERY

Thank You

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