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POST-TRAUMA (lat) UKA



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Disclosures

- Consultant related to UKA
None

INTRODUCTION

UKA (lat) Post-trauma Deep PUBMED Research

PubMed

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INTRODUCTION

UKA Post-trauma

- [Lateral unicompartmental knee arthroplasty relieves pain and improves function in posttraumatic osteoarthritis.](#)

1.

Lustig S, Parratte S, Magnussen RA, Argenson JN, Neyret P.
Clin Orthop Relat Res. 2012 Jan;470(1):69-76. doi: 10.1007/s11999-011-1963-2.
PMID: 21748514 **Free PMC Article**
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- [\[The medial closed-wedge osteotomy of the distal femur for the treatment of unicompartmental lateral osteoarthritis of the knee\].](#)

2.

Freiling D, van Heerwaarden R, Staubli A, Lobenhoffer P.
Oper Orthop Traumatol. 2010 Jul;22(3):317-34. doi: 10.1007/s00064-010-9006-9. German.
PMID: 20676825
[Similar articles](#)

- [Lateral unicompartmental knee arthroplasty through a medial approach. Surgical technique.](#)

3.

Sah AP, Scott RD.
J Bone Joint Surg Am. 2008 Oct;90 Suppl Pt 2:195-205. doi: 10.2106/JBJS.H.00257.
PMID: 18829933
[Similar articles](#)

[Lateral unicompartmental knee arthroplasty is a safe procedure for post-traumatic osteoarthritis after lateral tibial plateau fracture: a case-control study at 10-year follow-up.](#)

Schmidt A, Barnavon T, Lording T, Sappey-Mariniere E, Batailler C, Servien E, Lustig S.
Knee Surg Sports Traumatol Arthrosc. 2021 Nov;29(11):3654-3663. doi: 10.1007/s00167-020-06359-w. Epub 2020 Nov 9.
PMID: 33165637

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- 2. PMID: 32631712

[Excellent outcomes for lateral unicompartmental knee arthroplasty: Multicenter 268-case series at 5 to 23 years' follow-up.](#)

Deroche E, Martres S, Ollivier M, Gadeyne S, Wein F, Gunepin FX, Remy F, Badet R, Lustig S; la SFHG.
Orthop Traumatol Surg Res. 2020 Sep;106(5):907-913. doi: 10.1016/j.otsr.2020.03.019. Epub 2020 Jul 3.
PMID: 32631712 **Free article.**

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- 3. PMID: 32561964

[Outcomes of lateral unicompartmental knee arthroplasty in post-traumatic osteoarthritis, a retrospective comparative study.](#)

Romagnoli S, Vitale JA, Marullo M.
Int Orthop. 2020 Nov;44(11):2321-2328. doi: 10.1007/s00264-020-04665-z. Epub 2020 Jun 20.
PMID: 32561964

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INTRODUCTION

UKA Post-trauma

Clin Orthop Relat Res (2012) 470:69–76
DOI 10.1007/s11999-011-1963-2

SYMPOSIUM: PAPERS PRESENTED AT THE ANNUAL MEETINGS OF THE KNEE SOCIETY

Lateral Unicompartmental Knee Arthroplasty Relieves Pain and Improves Function in Posttraumatic Osteoarthritis

Sebastien Lustig MD, PhD, Sebastien Parratte MD, PhD,
Robert A. Magnussen MD, Jean-Noel Argenson MD,
Philippe Neyret MD



We retrospectively reviewed all **13 patients** (six male, seven female) treated with an isolated lateral UKA (13 knees) for lateral compartmental arthritis secondary to tibial plateau fracture between January **1985 and December 2007** in our two institutions.

UKA POST TRAUMA

7

PEARLS AND PITFALLS

1. DEFORMITY



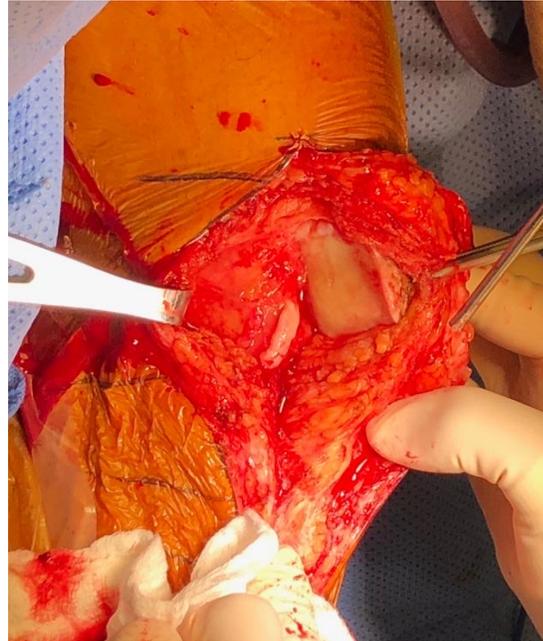
2. ACL STATUS

MRI SCAN IS MANDATORY

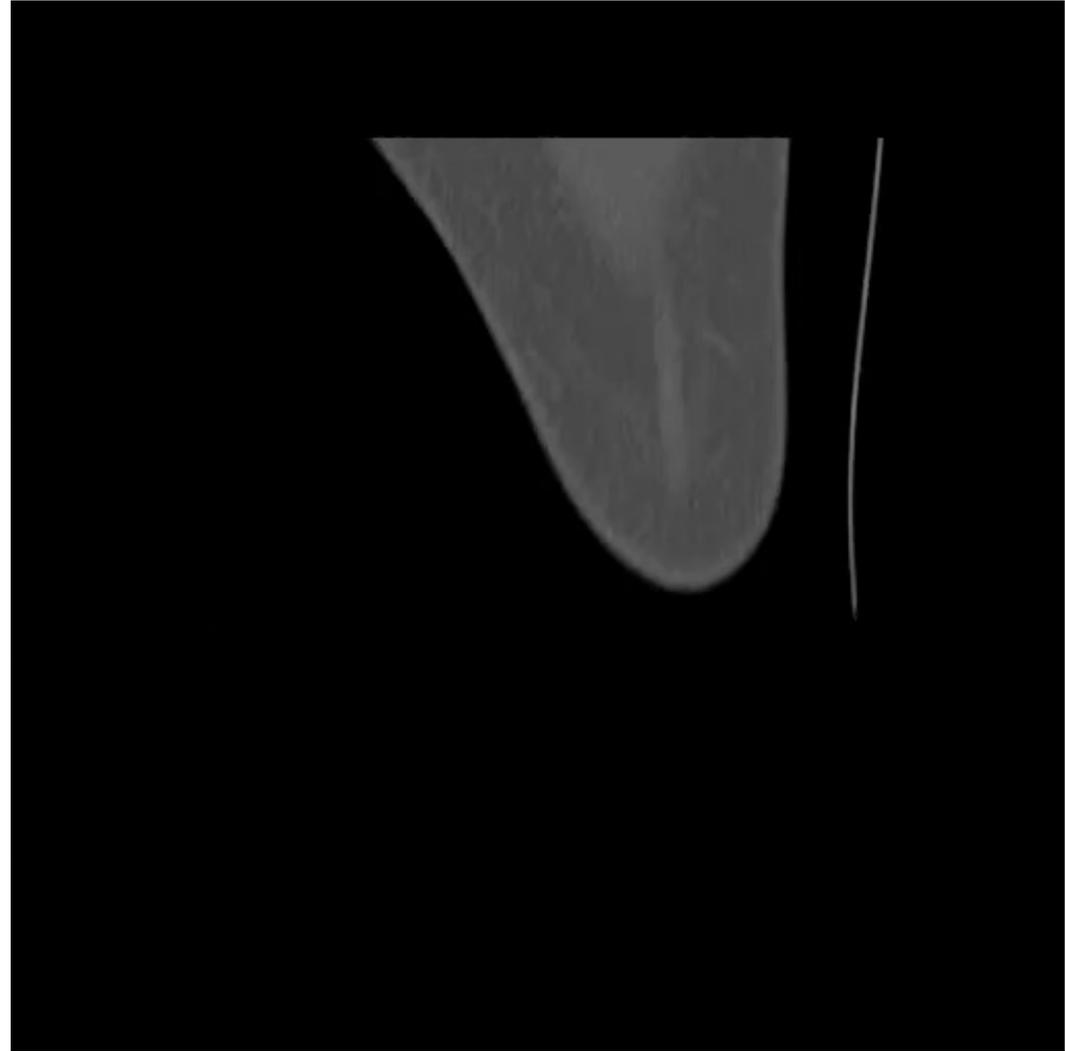
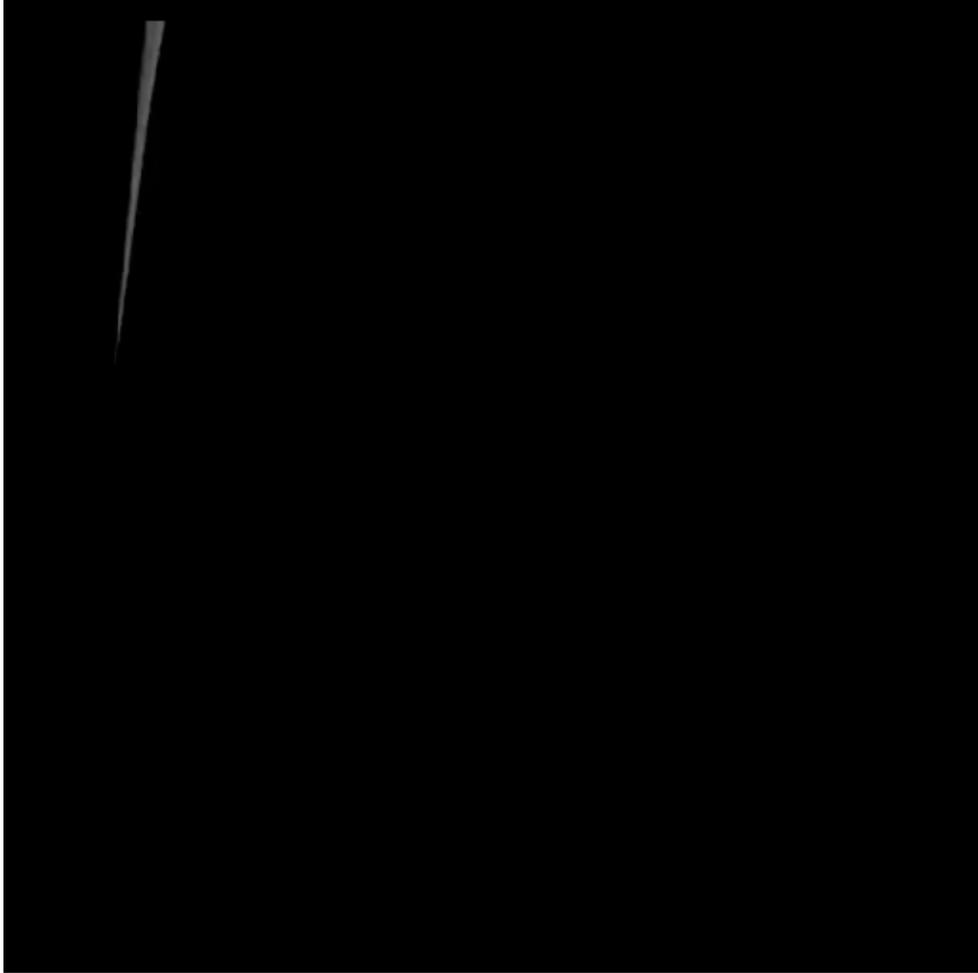
=> CONTROL UKA PPTA



3. SCARS

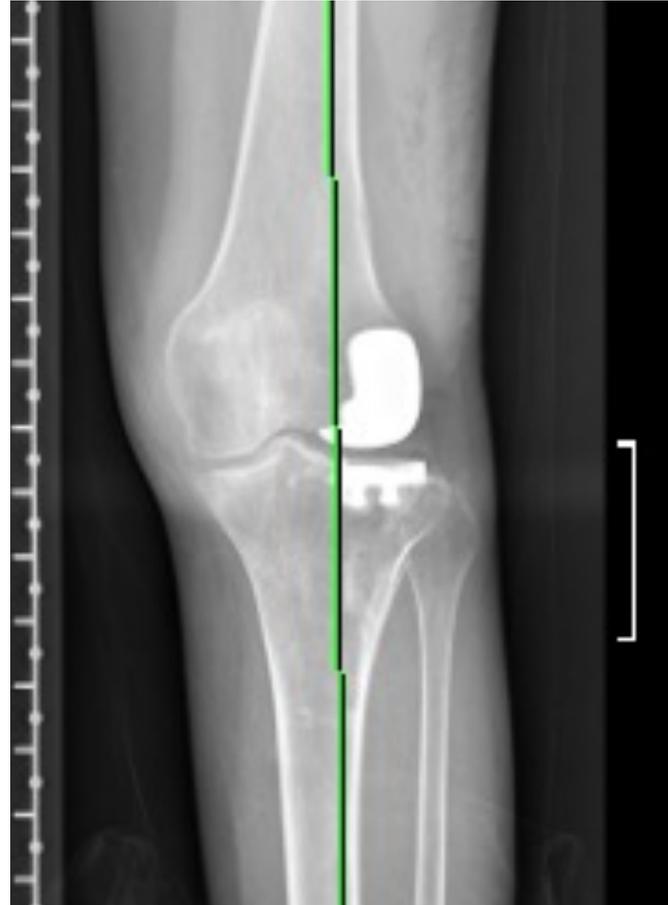


4. BONE Stock

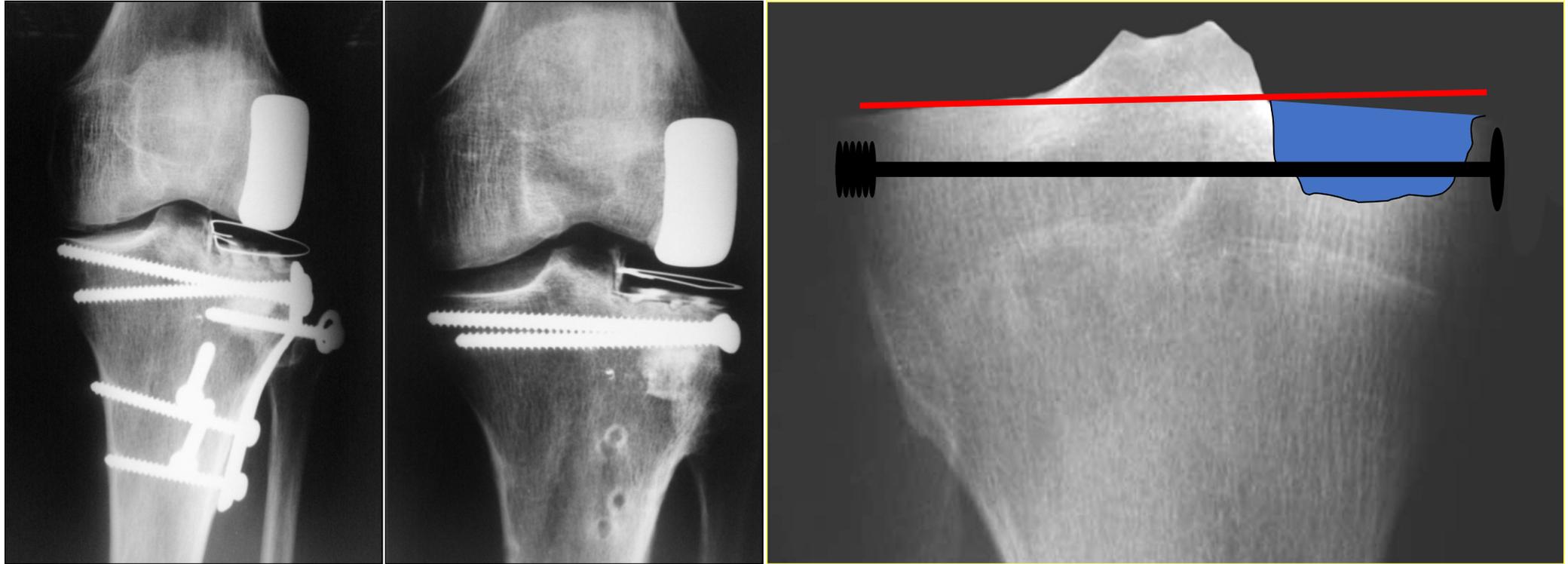


4. BONE Stock

- PL COLLAPSE => BE careful when positioning Baseplate
- LaT cortex Widening
- Position of the Lat Spine



4. BONE Stock



5. CUTS

What was the initial trauma ?

Split

Collapse

Femoral cut to graft the tibia

More =>> Screw ? Allograft ?

Depending cut ?

International Orthopaedics (SICOT) (2014) 38:449–455
DOI 10.1007/s00264-013-2222-9

REVIEW ARTICLE

Lateral unicondylar knee arthroplasty (UKA): Contemporary indications, surgical technique, and results

Matthieu Ollivier • Matthew P. Abdel •
Sébastien Parratte • Jean-Noël Argenson

5. CUTS

90% of the case=> PL TIBIAL Collapse

90° Slope

No overcorrection

No Condyle displasia

=> Big femoral cut (compare to usual)

Screw home mechanism => rotate +++ the fem implant



6. Trials : TRICKS

Post sublux => tibial base plate is too anterior

Conflict in flexion => more rotation in femoral comp

International Orthopaedics (SICOT) (2014) 38:449–455
DOI 10.1007/s00264-013-2222-9

REVIEW ARTICLE

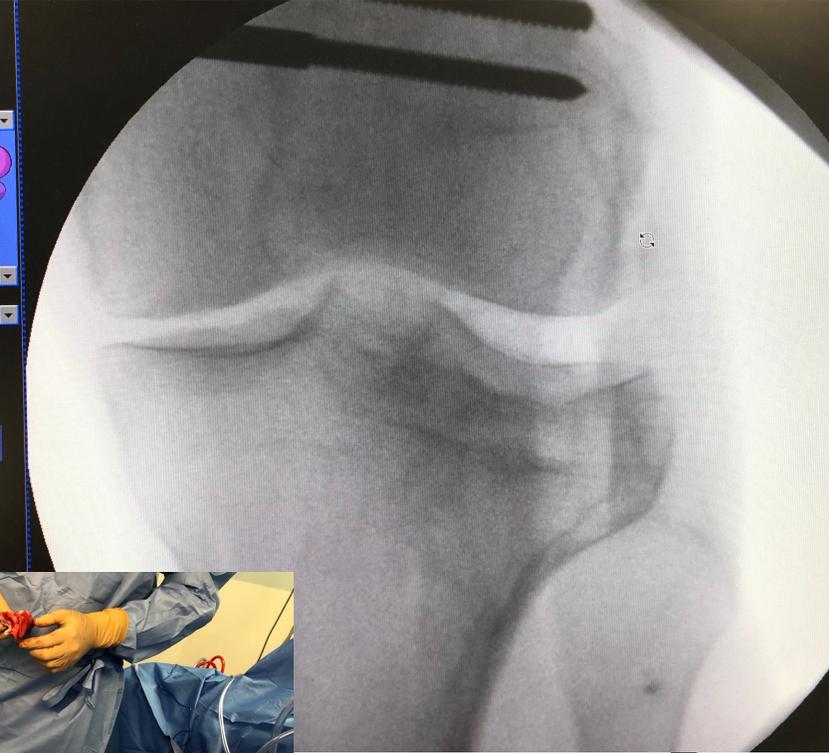
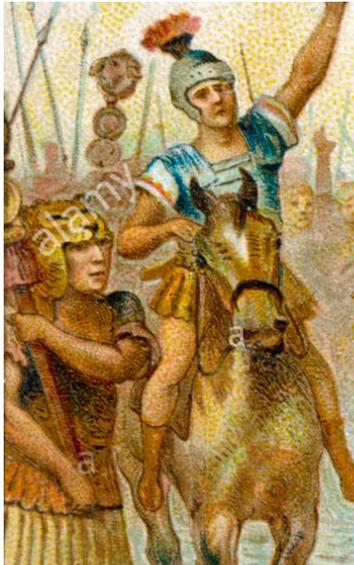
Lateral unicondylar knee arthroplasty (UKA): Contemporary indications, surgical technique, and results

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Sébastien Parratte • Jean-Noël Argenson

7. Precision



7b. Rubicon



- RAJOUTER MME LESNE

THM

90% Lat

Rare surgery

Intra-art deformity +++ (no extra-A KO)

Tibial collapse but Normal femur

Support tib baseplate

Respect lat UKA rule

Think intra-articular osteotomy in young and active



**ICI C'EST
MARSEILLE
BÉBÉ**



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