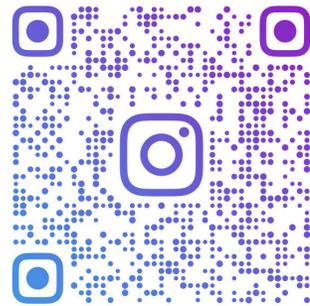


# THE OSTEOPOROTIC DEPRESSION-FRACTURE OF THE KNEE

The modified « Eric E Jonhson » procedure



PR.MATT.OLLIVIER

Prof Matt Ollivier

Dr. Kris Kley

IML



# Disclosures

Consulting surgeon Newclip, Stryker, Arthrex

# FROM TRAUMA TO POST TRAUMA

> [Int Orthop](#). 2016 Sep;40(9):1961-6. doi: 10.1007/s00264-015-3047-5. Epub 2015 Nov 14.

## **Balloon tibioplasty for reduction of depressed tibial plateau fractures: Preliminary radiographic and clinical results**

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Affiliations + expand

PMID: 26566641 DOI: [10.1007/s00264-015-3047-5](#)

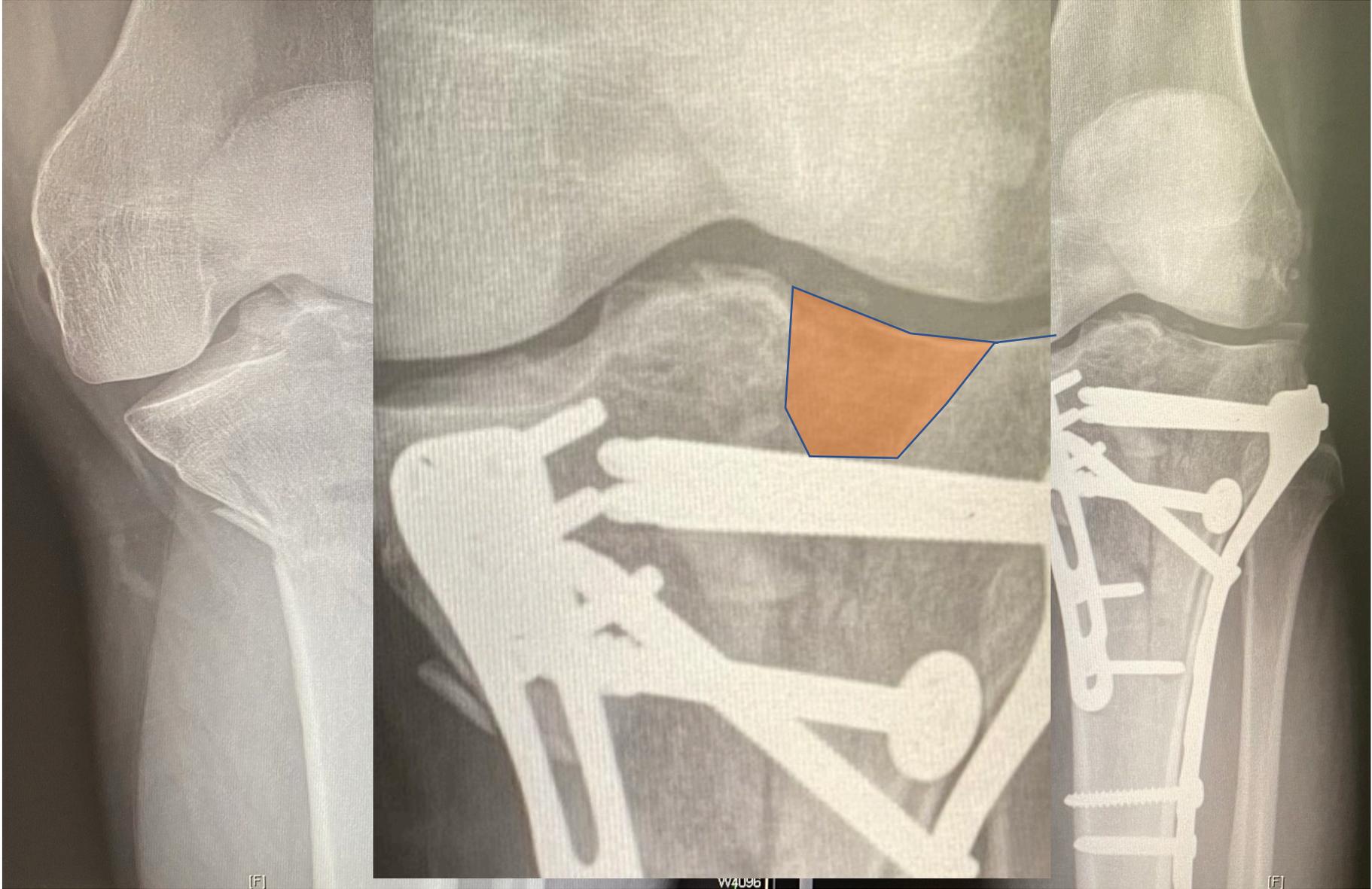
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## **Fixation augmentation using calcium-phosphate bone substitute improves outcomes of complex tibial plateau fractures. A matched, cohort study**

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[F]

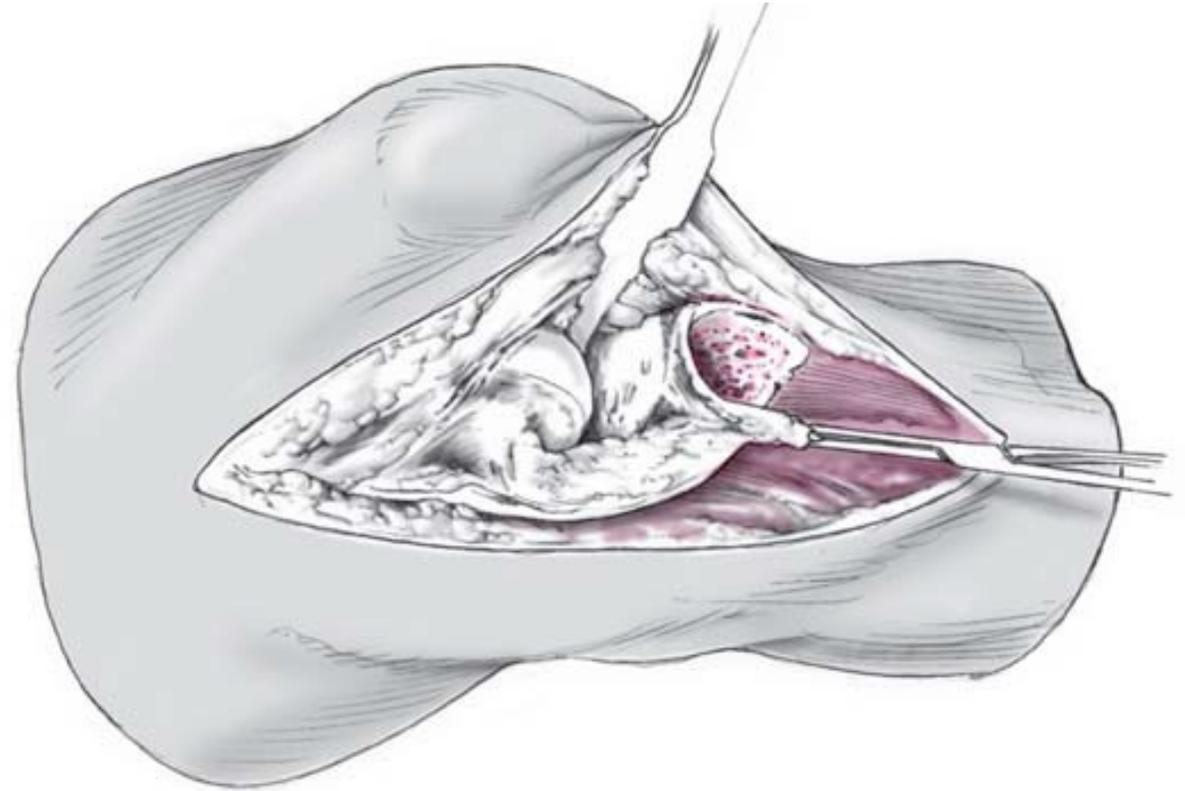
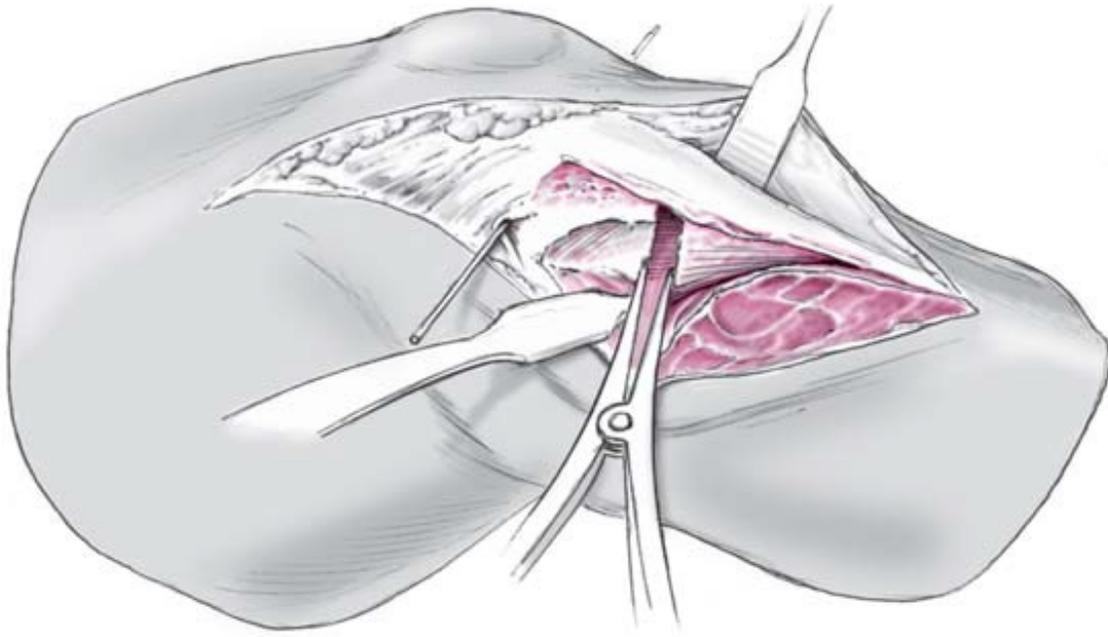
W4096 |

[F]

## Korrekturosteotomie bei lateraler Tibiakopfimpression und Valgusfehlstellung

### Correction of Lateral Tibial Plateau Depression and Valgus Malunion of the Proximal Tibia

René K. Marti<sup>1,2</sup>, Gino M.M.J. Kerkhoffs<sup>1,3</sup>, Maarten V. Rademakers<sup>1</sup>



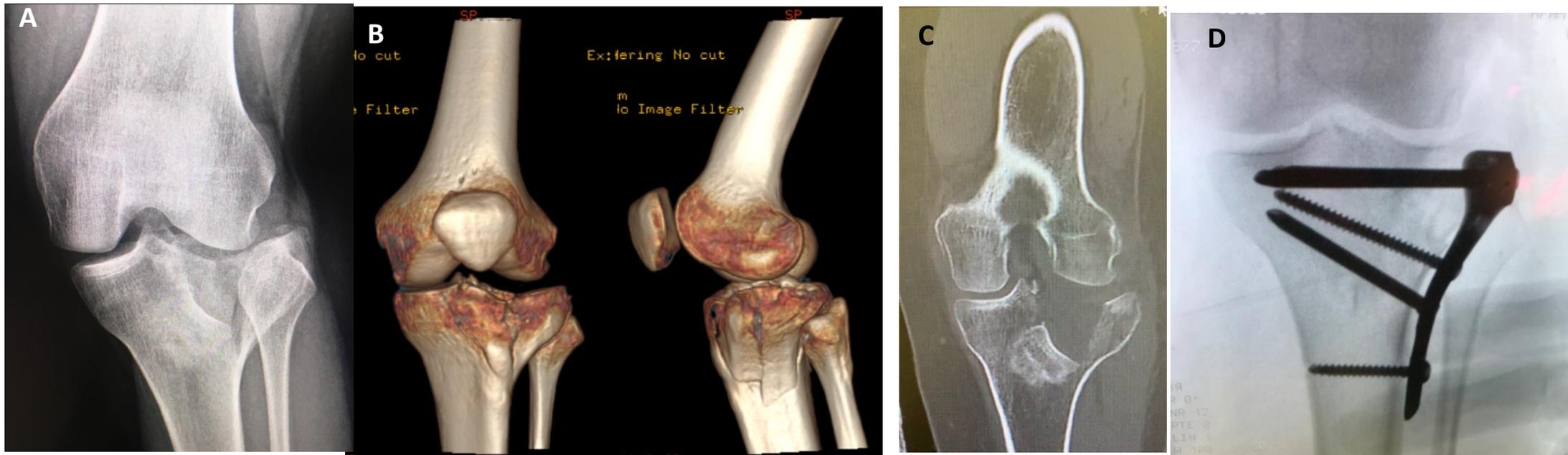


SYMPOSIUM: TSCHERNE FESTSCHRIFT

## Surgical Technique

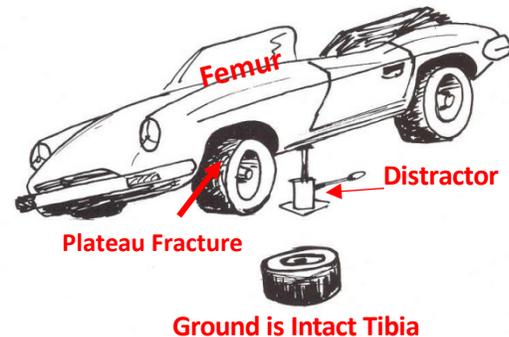
### Tscherne-Johnson Extensile Approach for Tibial Plateau Fractures

Eric E. Johnson MD, Stephen Timon MD,  
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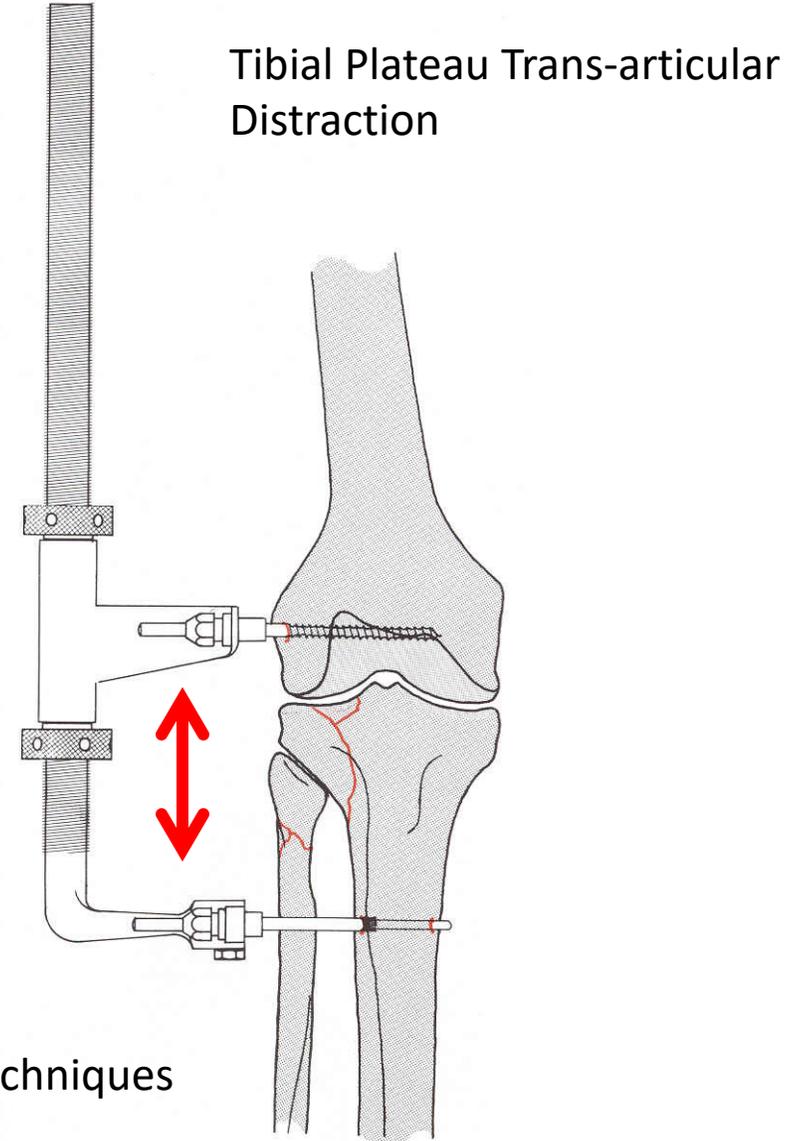
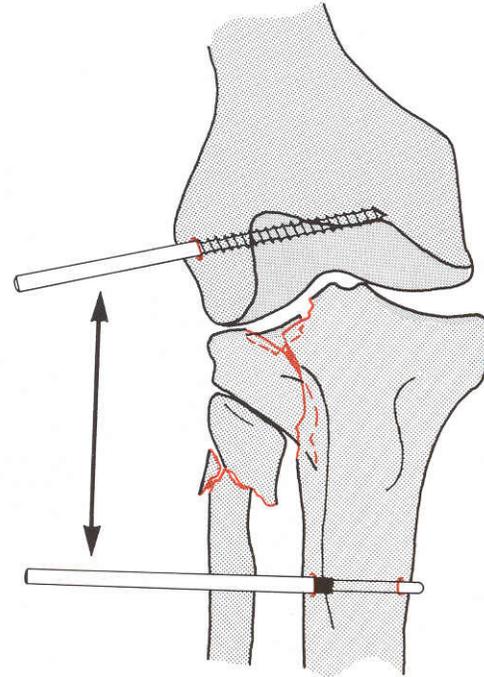


# Tibial Plateau is a Flat Tire

Courtesy E.Johnson

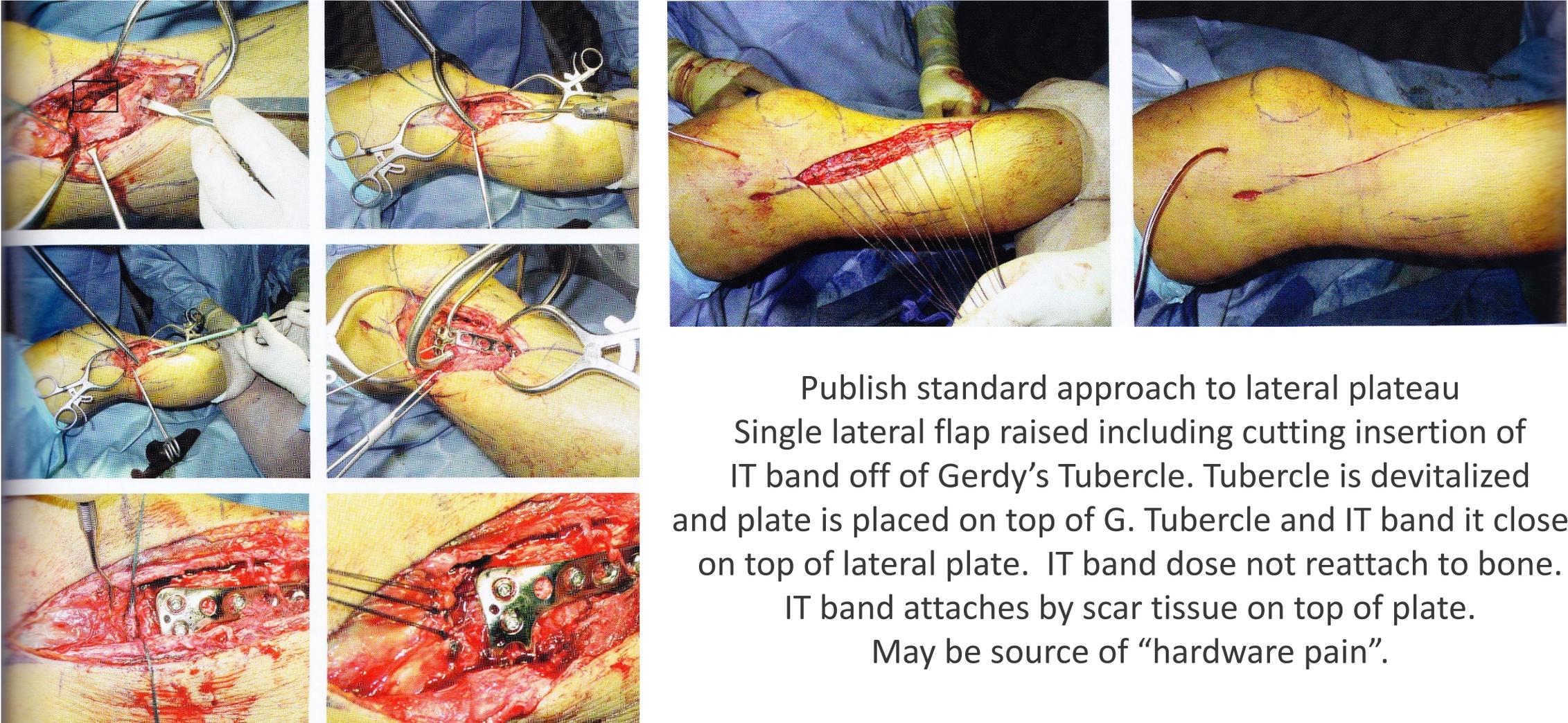


Cannot change  
a flat tire  
without a  
tire jack



Images from  
Planning and Reduction Techniques  
in Fracture Surgery  
Jeff Mast 1989

# Standard Approach Lateral Tibial Plateau



Publish standard approach to lateral plateau  
Single lateral flap raised including cutting insertion of IT band off of Gerdy's Tubercle. Tubercle is devitalized and plate is placed on top of G. Tubercle and IT band it closed on top of lateral plate. IT band dose not reattach to bone. IT band attaches by scar tissue on top of plate.  
May be source of "hardware pain".

# Intra-articular lateral plateau osteotomy

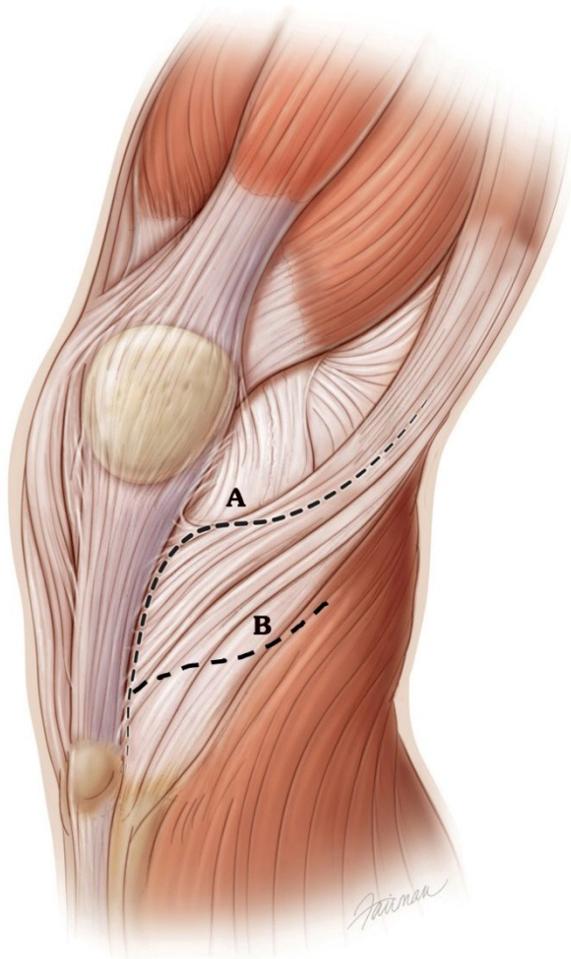


Figure 2

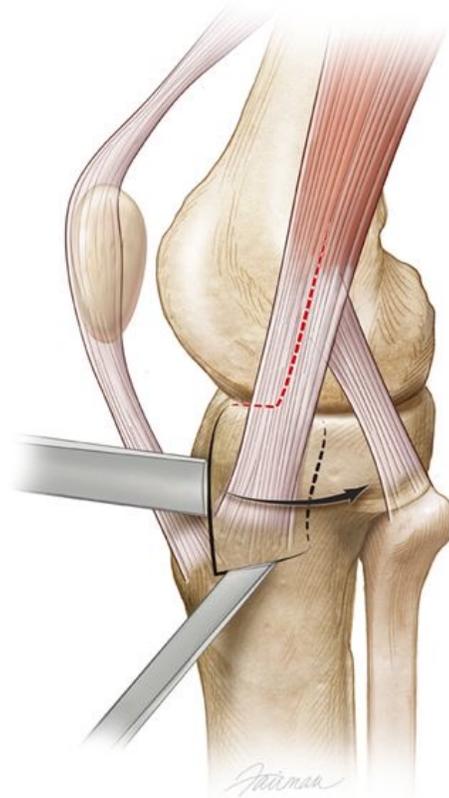
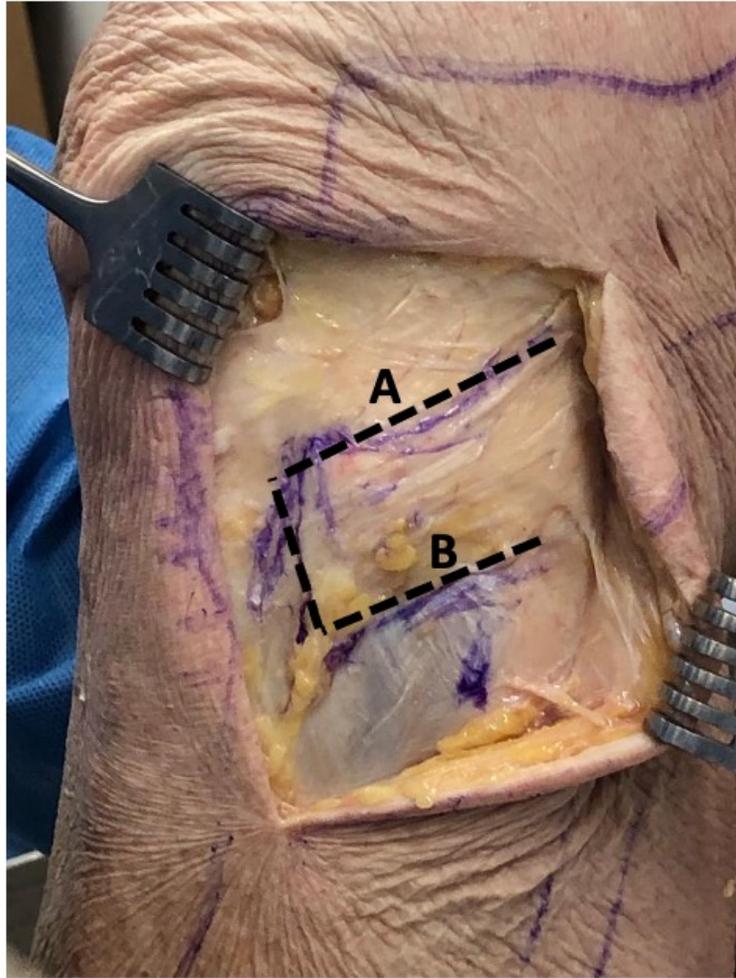
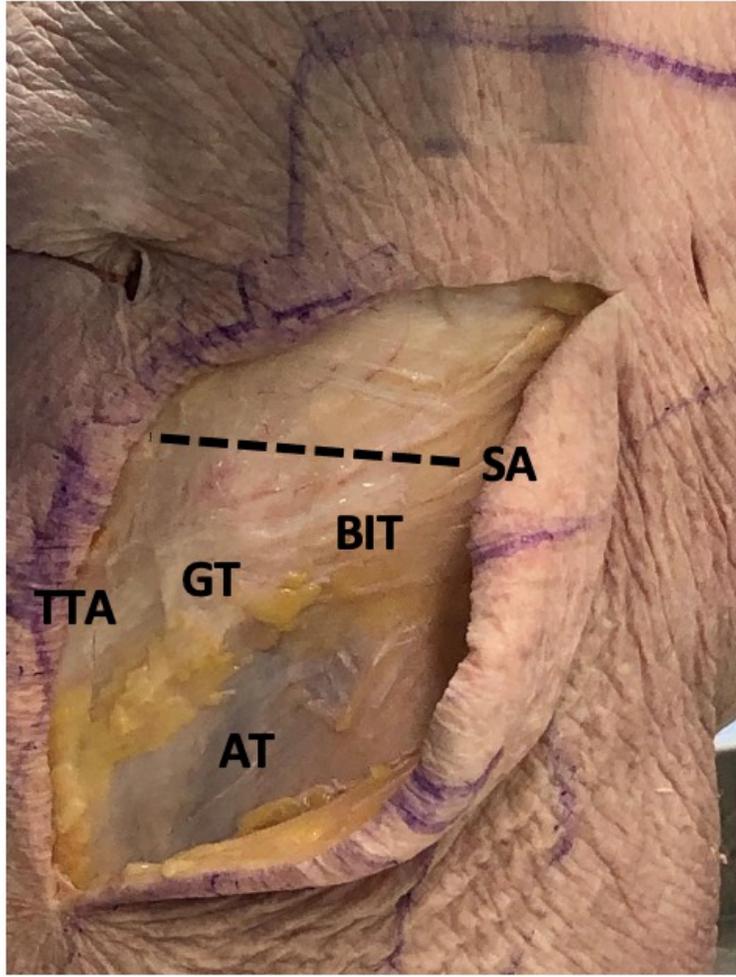
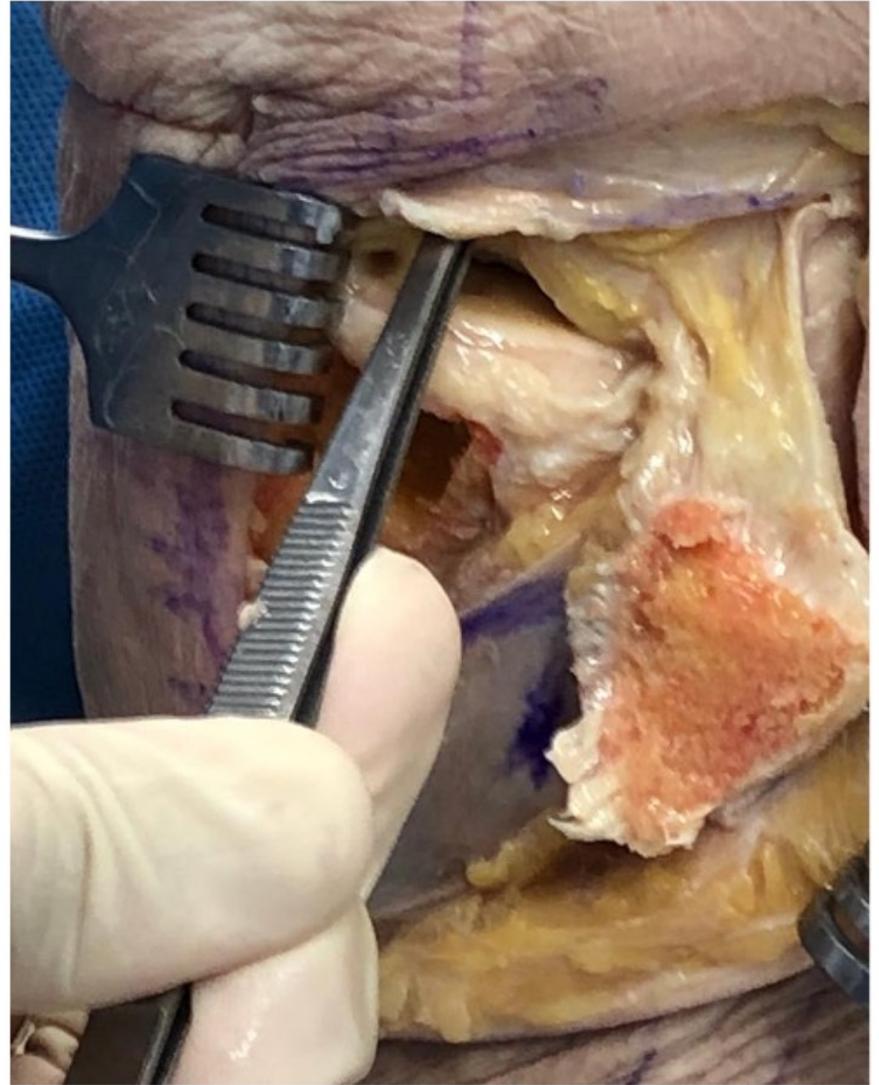


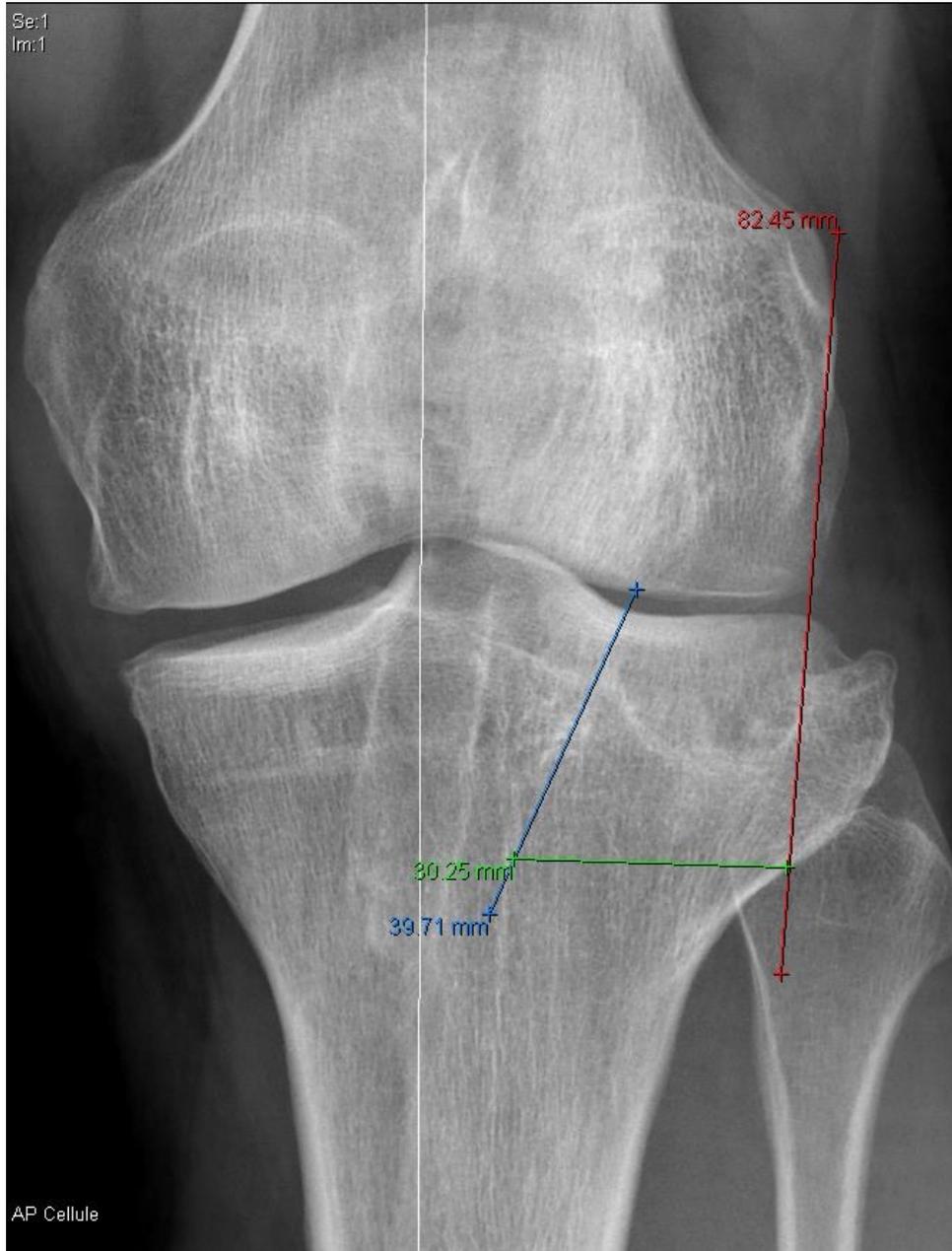
Figure 3

Johnson, EE, Timon, S, Chukwunye, O.: Tscherne-Johnson Extensile Approach for Tibial Plateau Fractures. CORR(2013) 471:2760–2767

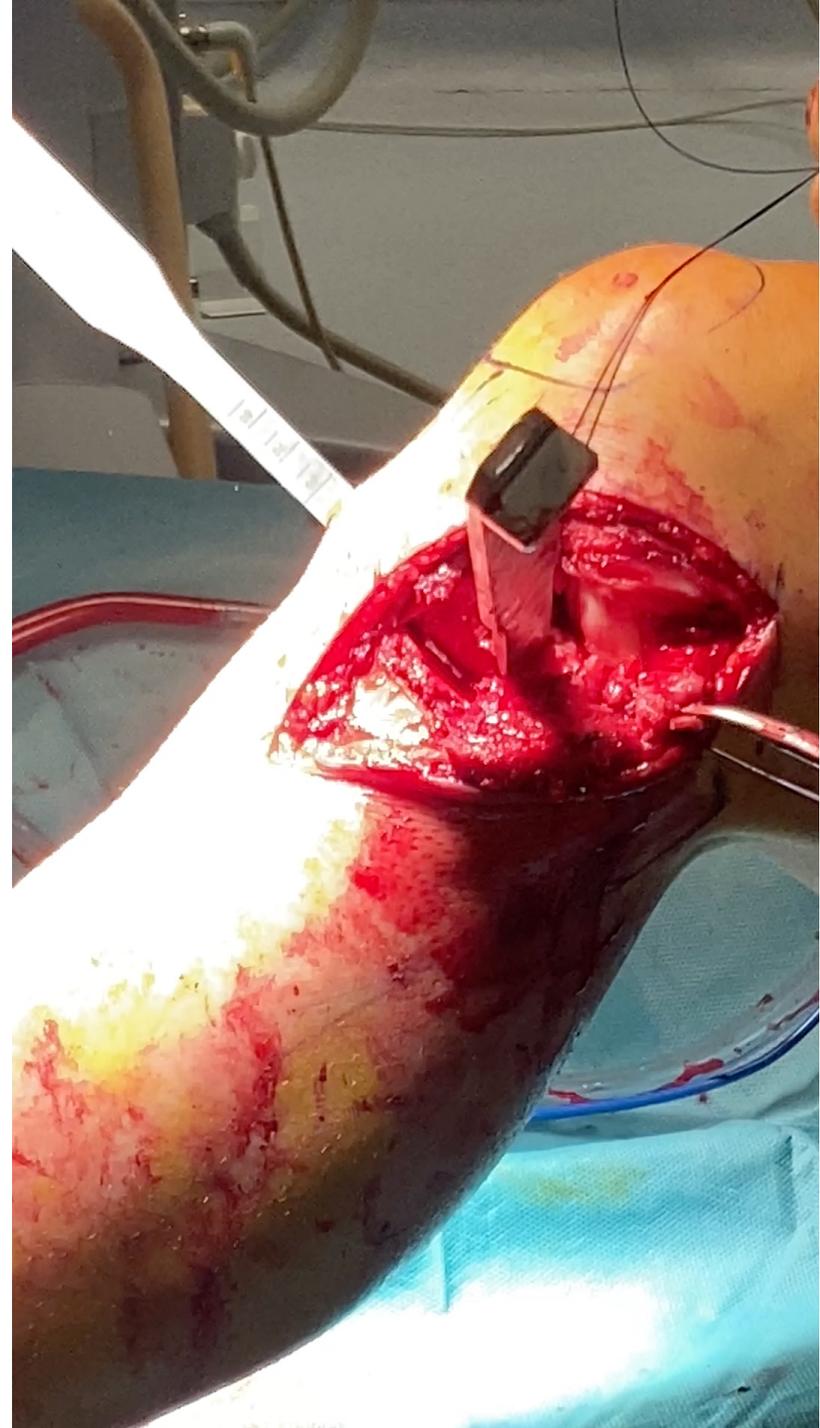
Tubercle is osteotomized with intra-articular joint fragment. Inferior half of IT Band maintained to fragment. Restoration of intact IT Band function with final reduction of tubercle with plate placed on top of IT Band.

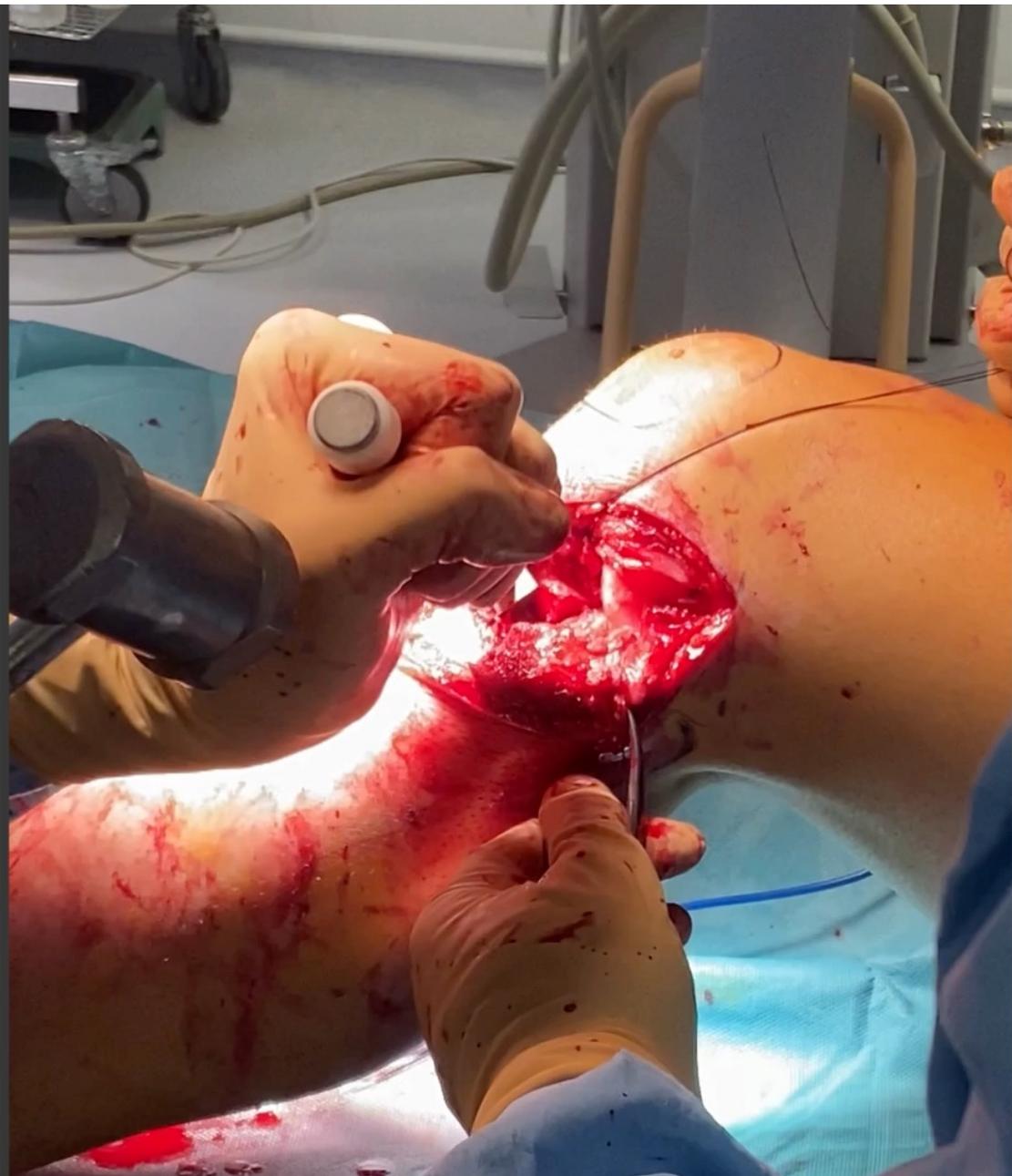












SYMPOSIUM: TSCHERNE FESTSCHRIFT

## Surgical Technique

### Tscherne-Johnson Extensile Approach for Tibial Plateau Fractures

Eric E. Johnson MD, Stephen Timon MD,  
Chukwunenye Osuji MD

In the group of 66 patients, five patients had hardware removal; two patients older than 70 years of age with preexisting knee arthritis had subsequent TKA 5 and 7 years after injury. There were no postoperative infections in this group of patients. In the group of 10 patients, one patient had a partial lateral meniscectomy for a meniscus tear 27 months after the index procedure.

# Our experience

- 19 PATIENTS 83% males
- FU 3 YEARS
- HWR 3 PTS
- NO REVISION
- NO TKA(yet)



IML



# Postop Regiment

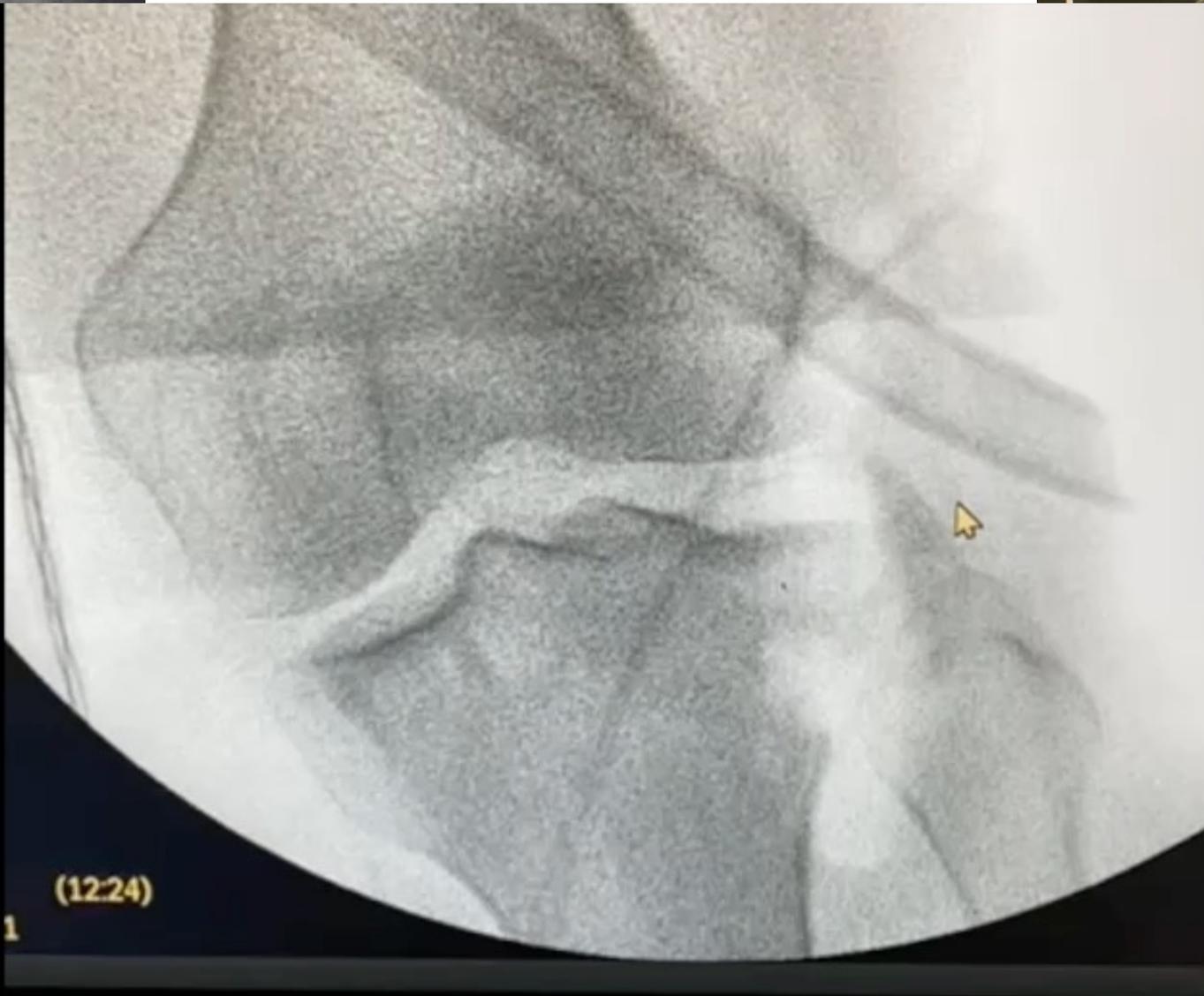
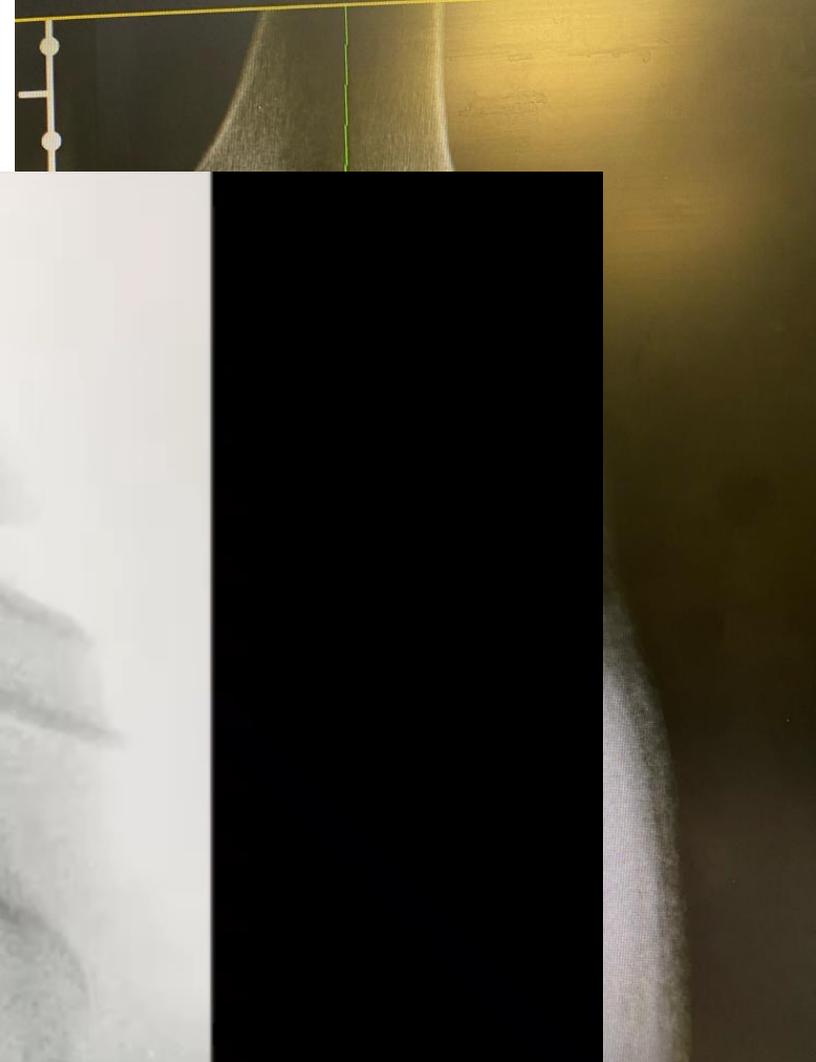
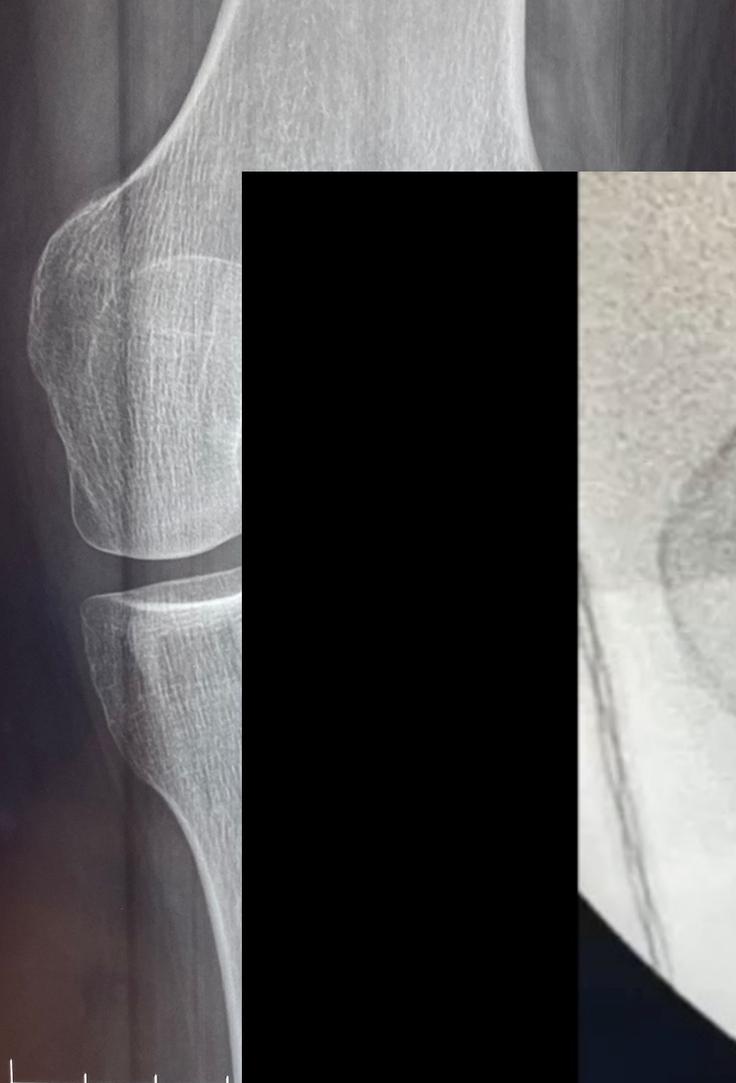
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**NWB 4 WEEKS**

**WORK 10 WEEKS**

**RUN 4 MONTHS**





(1224)

1

# THM

- this LAT OwHTO mostly address traumatic cases
- helpful way to treat intra-articular deformity
- bone graft !!!!!
- chronic exfix might be useful

## Surgical Technique

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