

PCL Tibial-Sided Avulsion Injuries How I do it !

Joan C Monllau MD, PhD

Hospital del Mar Hospital Universitari Dexeus (ICATME) Barcelona Spain









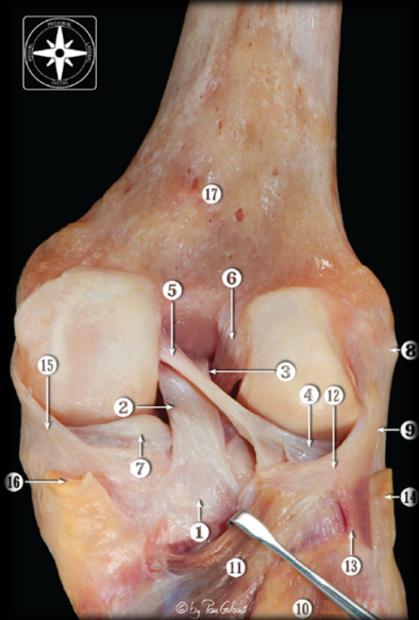
- Unfrequent injuries
- Generally require surgery
- No consensus about the optimal surgical approach
- Options depend on
 - type and size of the fracture
 - amount of displacement
 - comminution
 - concomitant injuries

POSTERIOR ASPECT OF THE KNEE

Complex anatomy

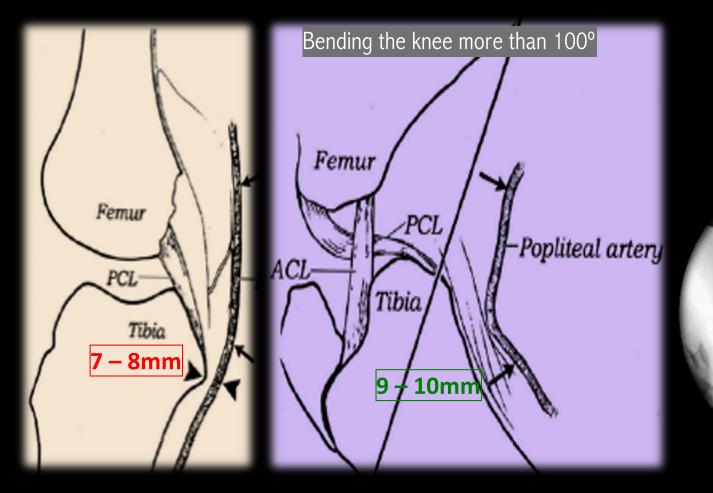


Courtesy of Pau Golanó MD, RIP



POSTERIOR ASPECT OF THE KNEE

Complex anatomy

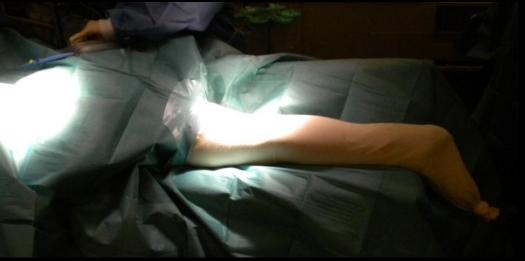




*

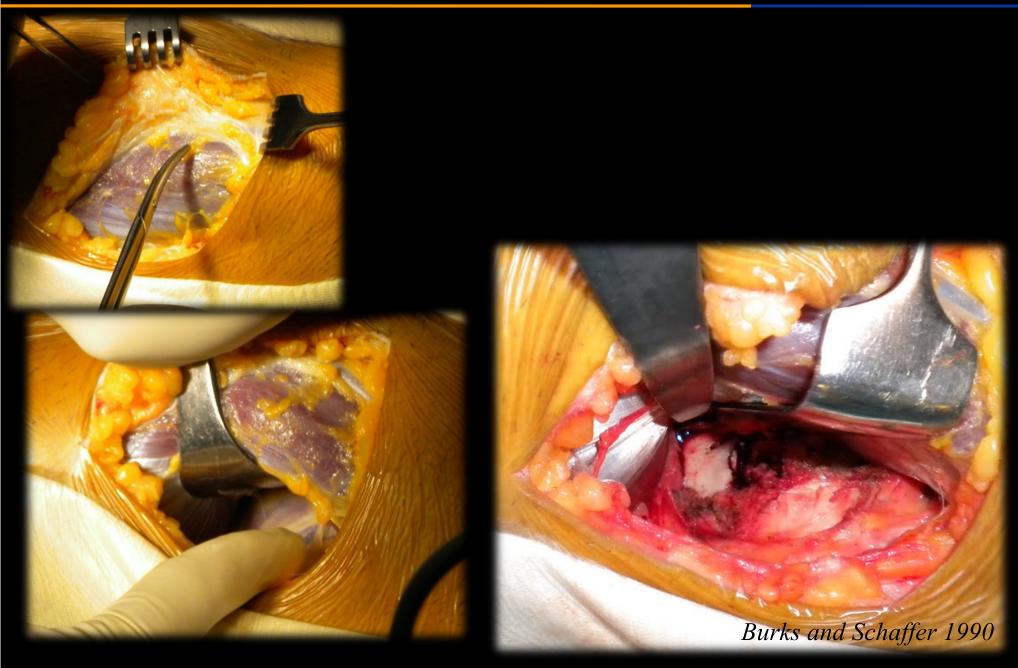
Modified Posterior Trickey Approach

- Patient in prone position
- Knee flexed to 30°
- Inverted L incision along the flexion crease
- Interval between medial gastroc and semiM bluntly dissected
- Capsule vertically incised
- Tibial attachment of the PCL is now exposed
- NV bundle protected by laterally retracted medial gastroc

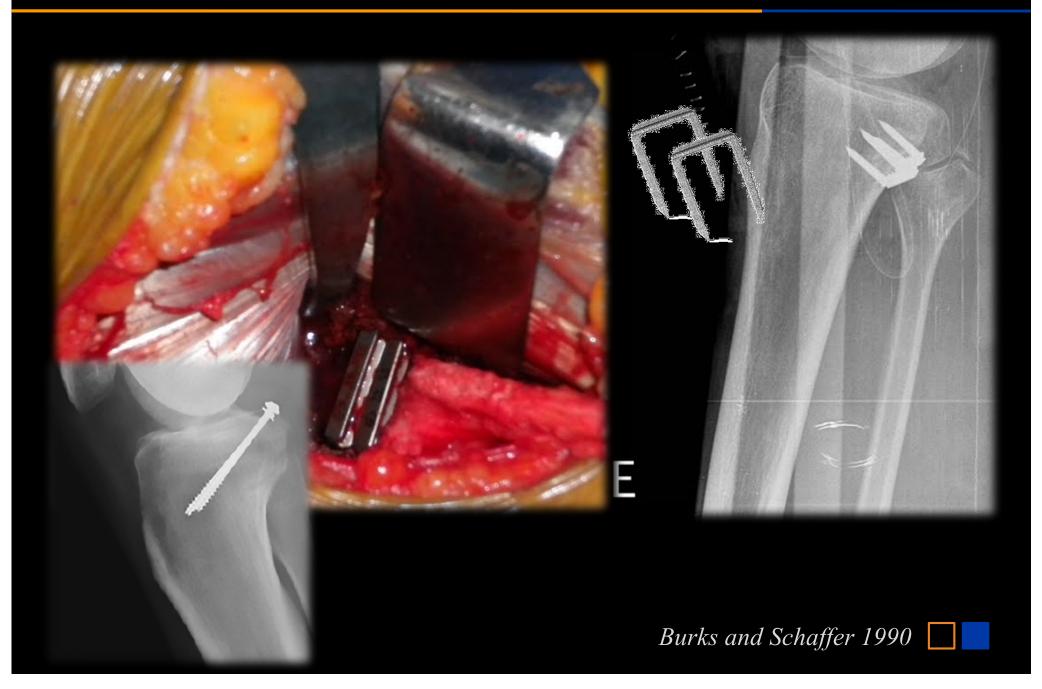




Modified Posterior Trickey Approach



Modified Posterior Trickey Approach



COMPLEX INJURIES

• Intra & extraarticular associated injuries

COMPLEX INJURIES

• Intra & extraarticular associated injuries





COMPLEX INJURIES

• Reduction, grafting & fixation





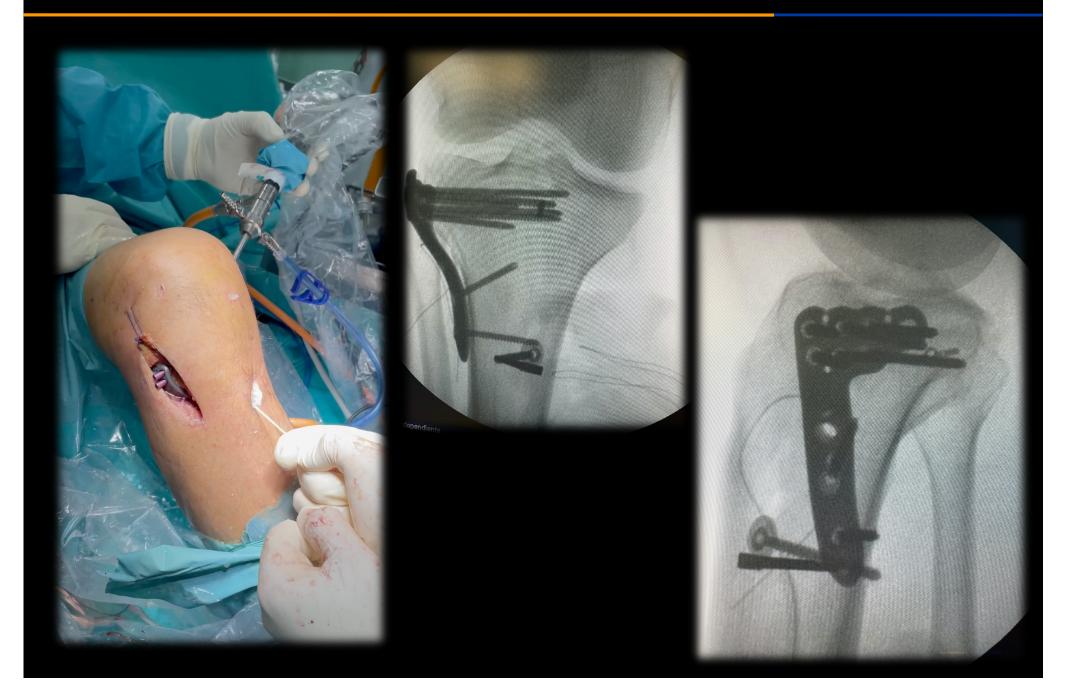


COMPLEX INJURIES

- Check reduction
- Intraarticular associated injuries

COMPLEX INJURIES

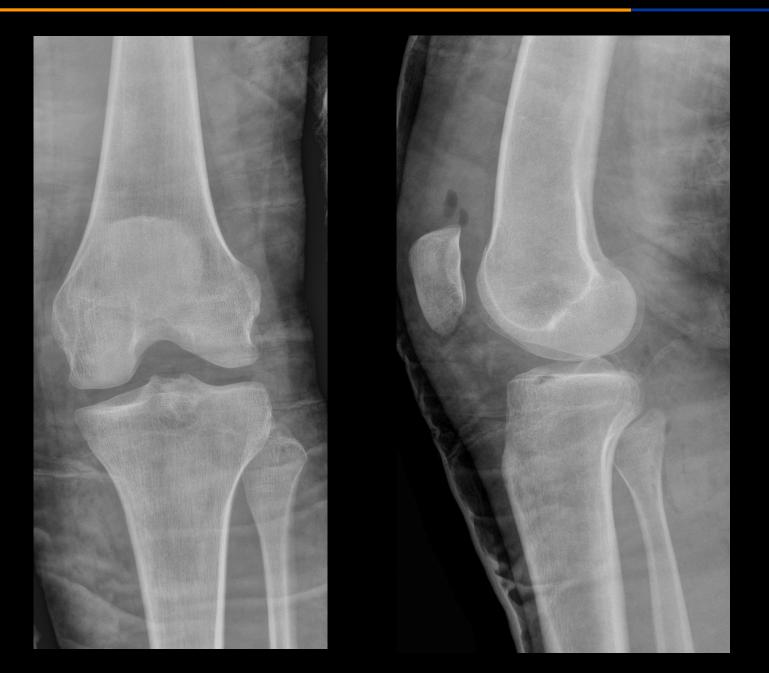
- Reduction & fixation of the pcl tibial attachment
 - Transtibial tunnel through the bone fragment
 - Adjustable button



Minimally Invasive Posterior Approach

ISOLATED INJURIES

Minimally Invasive Posterior Approach



OUTCOMES

The American Journal of Sports Medicine

Management of Posterior Cruciate Ligament Tibial Avulsion Injuries: A Systematic Review

Perry O Hooper 3rd Chris Silko Tennison L Malcolm Lutul D Farrow Am J Sports Med. 2018 Mar;46(3):734-42.

Both surgical approaches render similar outcomes

✓ Arthroscopy

- higher subjective and objective knee outcome scores but demonstrated a slightly higher rate of arthrofibrosis.

- concomitant intra-articular injuries, such as meniscal tears or osteochondral loose fragments, can be addressed at the time of the index operation.

✓ Open Surgery

- isolated injuries
- less time consuming

TAKE HOME MESSAGE

Depends on surgeon experience

- ✓ Open Surgery
- isolated injuries
- ✓ Arthroscopycally assisted
- concomitant intra-articular injuries

Thank you

Jmonllau@psmar.cat

ESSKA

esska-congress2022.org

20th ESSKA CONGRESS 27-29 APRIL 2022 PARIS, FRANCE

ESSKA President Jacques Menetrey (France)

Congress President Thomas Bauer (France) **Scientific Chairs**

Christophe Hulet (France) Kristian Samuelsson (Sweden) Martin Lind (Denmark) Geoffroy Nourissat (France) **Science Opens the Mind**

Register now!