

LONG-TERM OUTCOMES OF DEPRESSION WEDGE TROCHLEOPLASTY FOR TREATING PATELLAR INSTABILITIES IN HIGH-GRADE DYSPLASIA

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Disclosures

NP occasional consultant for education purposes:

Smith&Nephew, Lima, ZimmerBiomet, Stryker

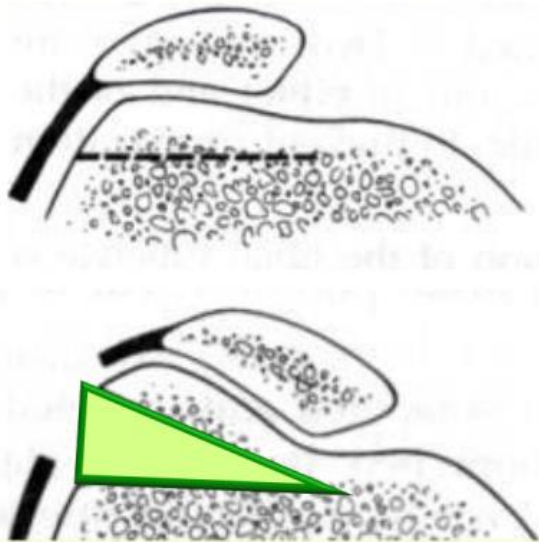
Other authors: nothing to declare

Different techniques of trochleoplasty

Lateral trochlear elevation

□ Albee

Albee F. Med Rec 1915 88:257-9



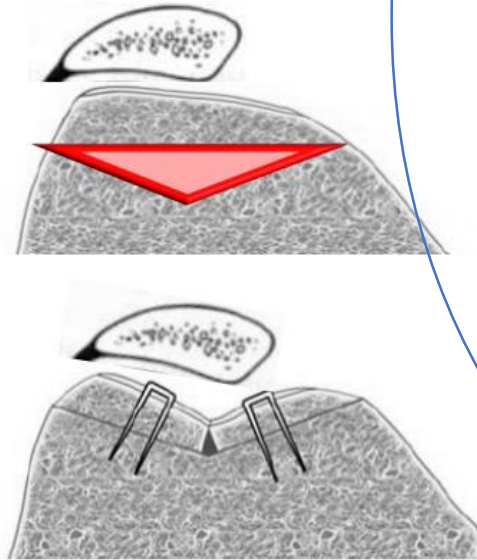
Sulcus deepening

□ Masse

Masse Y. RCO 1978 64:3-17

□ Dejour

Dejour D. Knee 2006 13(4):266-73



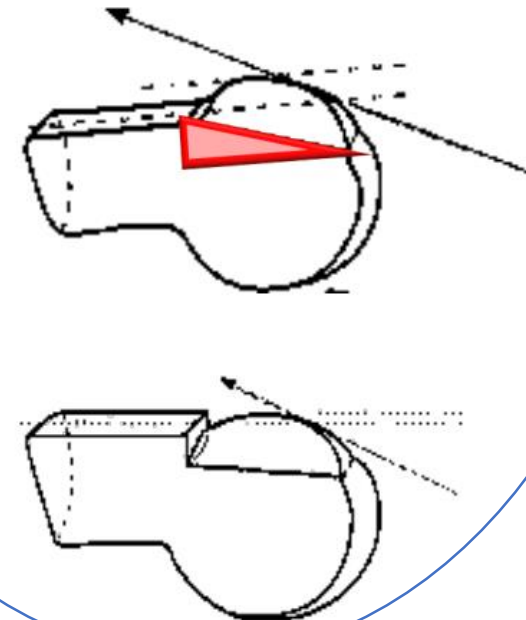
Recession wedge

□ Goutallier

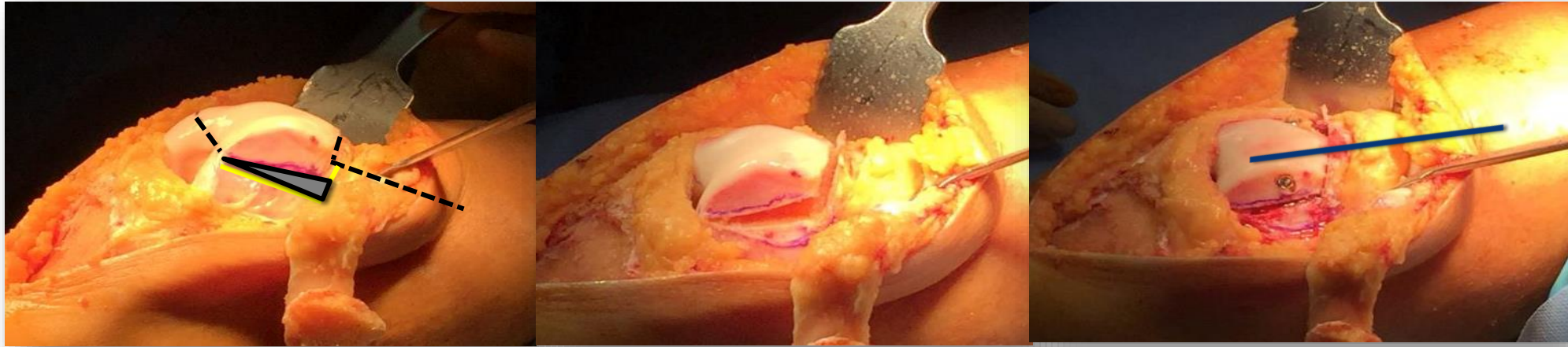
Goutallier D. RCO 2002 88:678-85

□ Beaufils

Thaunat M. OTSR 2011 97:833-45



Surgical technique: Recession wedge trochleoplasty



Principles:

- removal bump
- better patellar kinematics
- No joint congruency modification (no chondral)

Decrease patello femoral loads:

- Prevent OA??

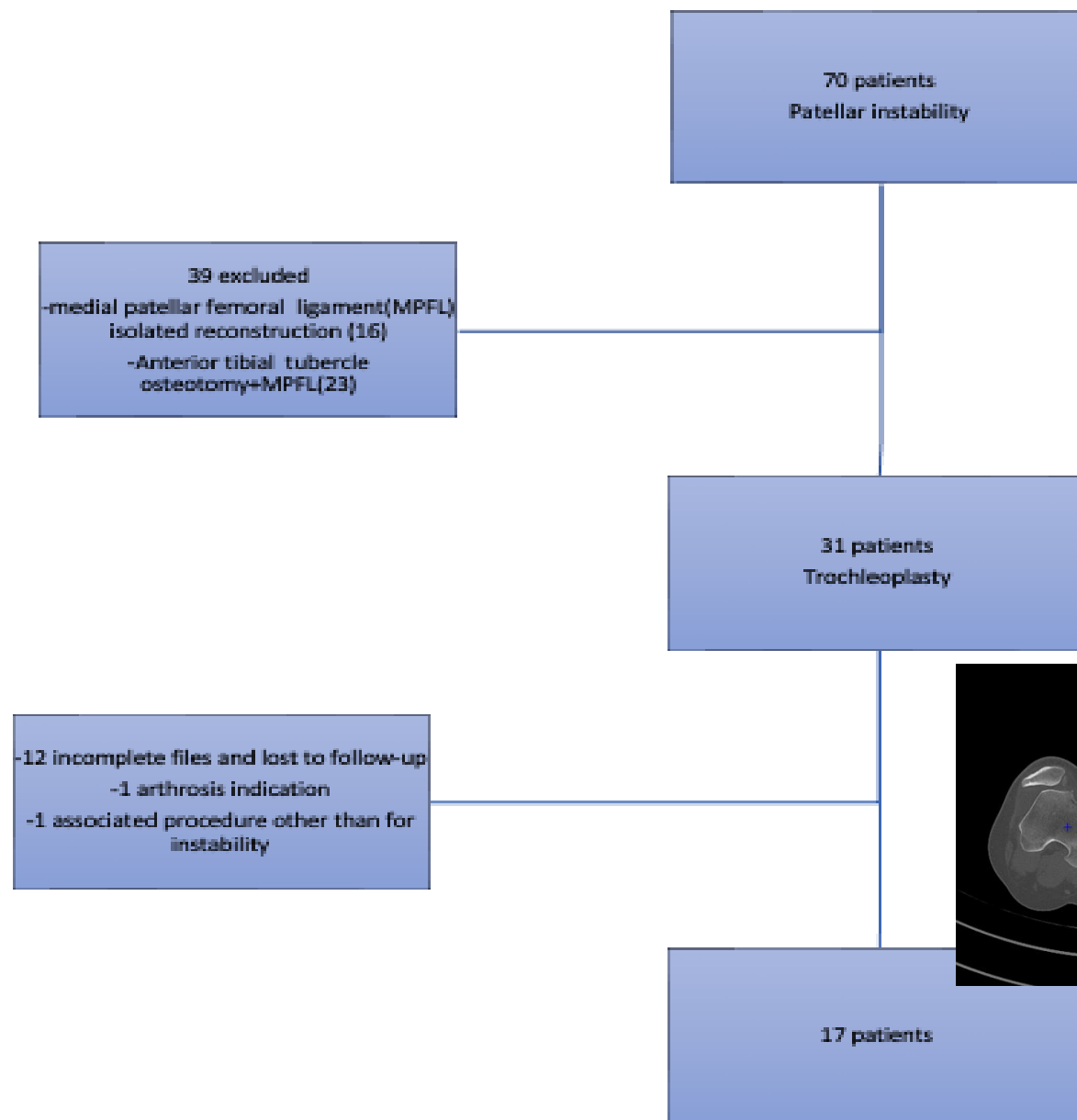
Purpose of the study

The purpose of this study was to analyze the clinical and radiological long-term outcomes of patients operated on by a recession wedge trochleoplasty.

The hypothesis was that the clinical results are stable over time and that the rate of secondary osteoarthritis is low



Flowchart: Patellar instability 2008-2013



Retrospective, monocentric design

Primary surgery

NO severe OA



Characteristics

15 patients (17 knees)

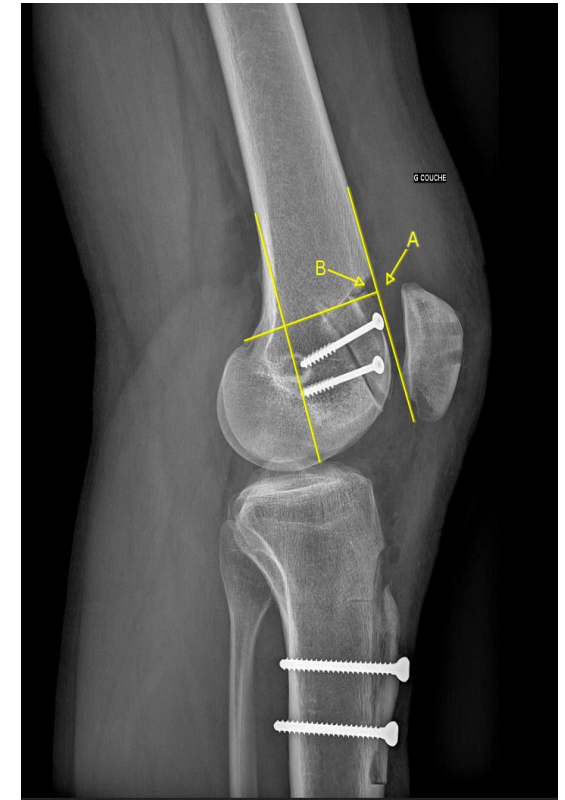
Age at time of surgery 23 ± 7 y

sex ratio(H/F) 0,42.

Mean follow-up 11 years (132 ± 22 months)

100% additional ATT osteotomy at the same time

30% additional MPFL reconstruction at the same time



Clinical outcomes

No recurrence of dislocation was observed.

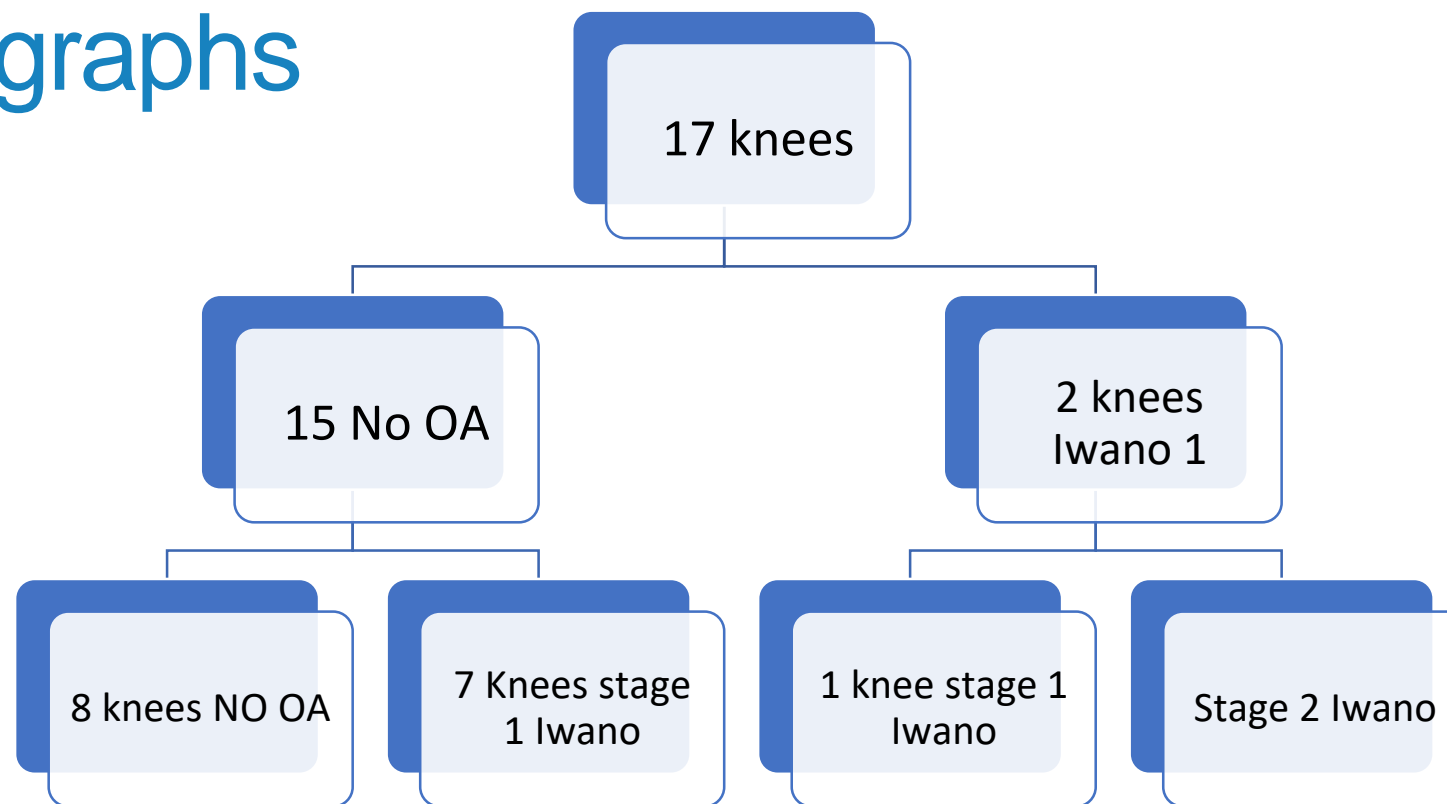
The Lille and Kujala scores were respectively $84\pm 9/100$ and $78\pm 12/100$ on average at the latest follow-up.

Results : Radiographs

OA ASSESSMENT

At time of surgery

At 11 years of FU



NO SECONDARY ARTHROPLASTY
NO ADDITIONAL COMPLICATION

Limits

- Retrospective design
- Low number of cases: rare entity
- Associated procedures: MPFL, ATT lowering/medialization

Conclusion

- Recesion wedge trochleoplasty:
 - Effective
 - In the long term
 - Stable
 - No OA



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