Segond fracture, Fixation

Burt Klos
ICONE
The Netherlands
ALL ligament?
November 2013 Belgium
Ultrasound anatomy

- Arthroscopy 2016
- Ultrasonographic Identification of the Anterolateral Ligament of the Knee
- Etienne Cavaignac, M.D. et al Toulouse
Fluoroscopic laxity AP
References frames / bone modelling
Laxity check
Rotation
ALL instability?

Results of the 90° rotation test.
Primary injury / plain X ray information
Segond fractuur
Imaging Segond avulsion

• Incidence in MRI 3 % Resnick USA
• Incidence in X ray CORR Hess D 9 %
• Incidence ultrasound 29 % (ICONE)

• Higher velocity trauma ?
• Refixation / Feagin :
Ultrasound imaging

- 88 patients with ACL
- 25 Segond lesions
- 70 Impaction # lateral FC
ALL relation with Segond # ?
Impaction lateral  FC
Hypothesis

• Avulsion lesions are a possible goal for refixing important lateral structures.
• The same approach we have for lateral fibula and tibial spine avulsion fractures.
US ALL ligament and #
Preoperative marker of Segond avulsion / ultrasound
Peroperative imaging
lift off lateral meniscus
Case Report: Refixing ALL / segond #
Checking the pivot on the table is pulling the staple off / prove of importance in stability?
Refixing Segond or reconstruction AL ?

ICONE Orthopaedics & Sports Traumatology
Conclusion

• We have new questions
  – Imaging
  – Indications
  – Surgical treatment fix or reconstruct
  – Some questions can be addressed by CAOS