Segond fracture, Imaging and Fixation

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Primary injury / plain X ray information
Segond fractuur
Laxity check

Place the leg in the reference position for the drawer test (90°), without any drawer.
Rotation

Perform the rotation test at 90°. BLUE pedal to stop the acquisition.
ALL instability

**TEST 90° - ROTATION RESULTS**

**Lateral (mm)**
- Post 2
- Ant 12
- Ext 4
- Int 24
- Medial (mm)
- Post 5
- Ant 1
- Int 24

**Axial rotation (°)**
- Post 2
- Ant 1
- Ext 4
- Int 24

**49 ACQUIRED POSITIONS**

Results of the 90° rotation test.
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
US static / dynamic
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?
Conclusion

• We have new questions
  – Imaging Ultrasound vs MRI
  – Surgical treatment or neglect
  – Indications Reconstruction vs Refixation
  – Some questions can be addressed by intraoperative navigation (CAOS)