



Université Claude Bernard (() Lyon 1





PhD,

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Intra articular



Extra articular





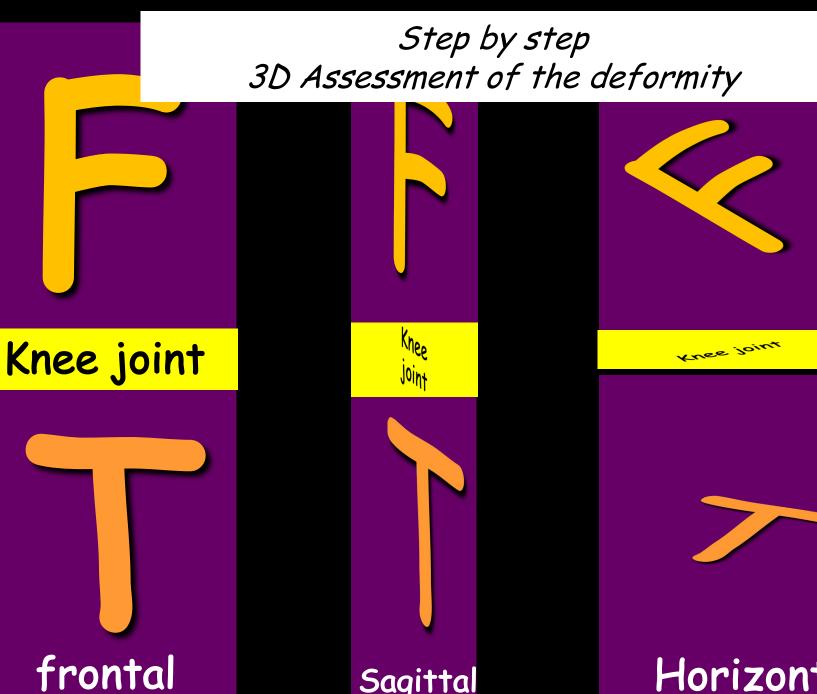
Frontal plane

Sagittal plane



Axial plane



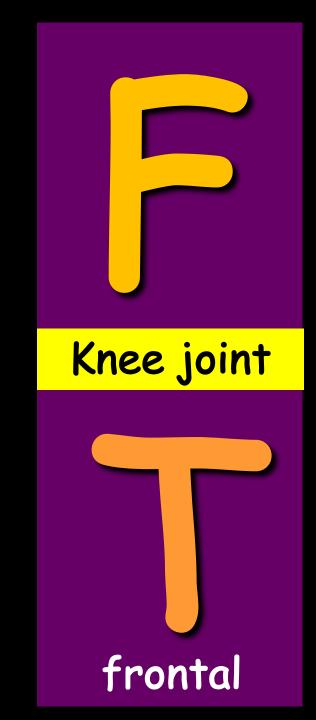


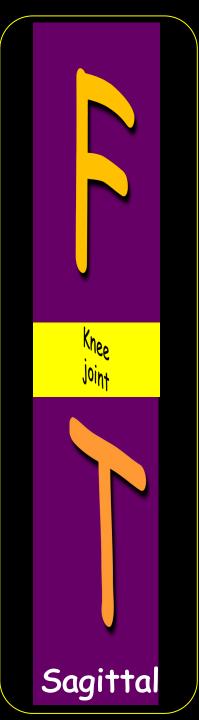
Sagittal

Horizontal







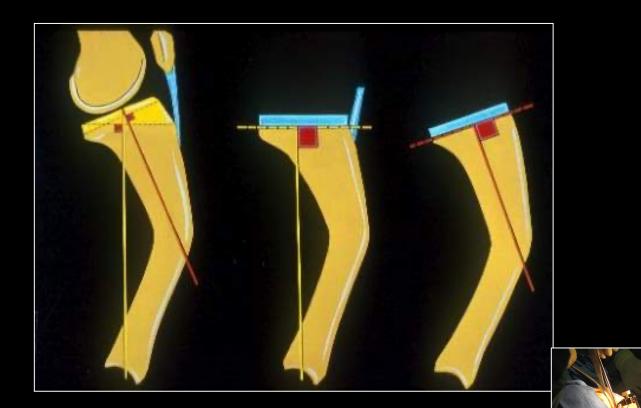






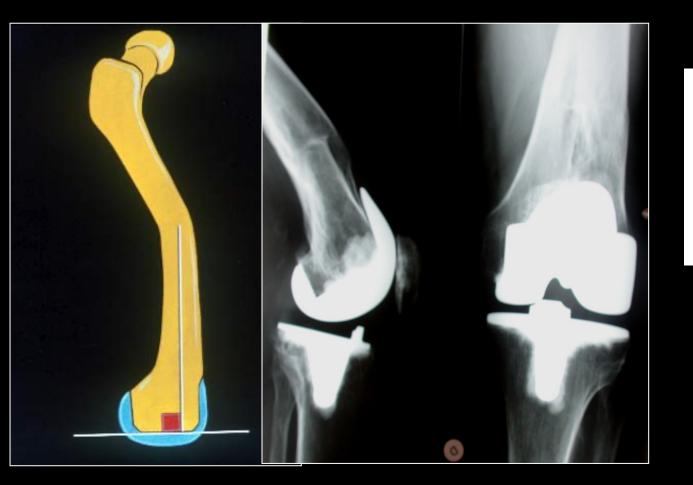
Horizontal

Sagittal Deformity





Sagittal Deformity



International Orthopaedics (SICOT) (2012) 36:1835–1839 DOI 10.1007/s00264-012-1580-z

ORIGINAL PAPER

Sagittal placement of the femoral component in total knee arthroplasty predicts knee flexion contracture at one-year follow-up

Sebastien Lustig · Corey J. Scholes · Tim J. Stegeman · Sam Oussedik · Myles R. J. Coolican · David A. Parker

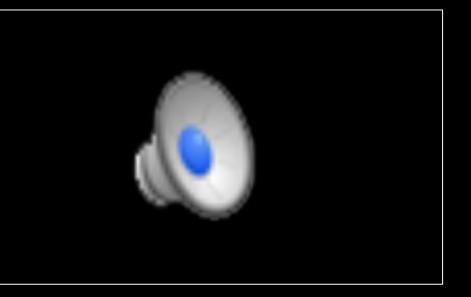


Recurvatum

> J Arthroplasty. 2021 Sep;36(9):3154-3160. doi: 10.1016/j.arth.2021.04.020. Epub 2021 Apr 24.

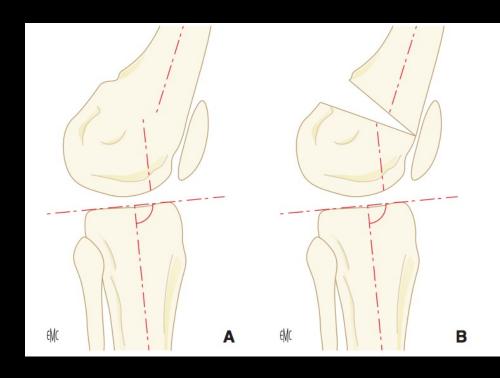
Posterior-Stabilized TKA in Patients With Severe Genu Recurvatum Achieves Good Clinical and Radiological Results at 5-year Minimum Follow-Up: A Case-Controlled Study

Guillaume Mesnard ¹, Cécile Batailler ², Camdon Fary ³, Axel Schmidt ¹, Elvire Servien ⁴, Sébastien Lustig ²



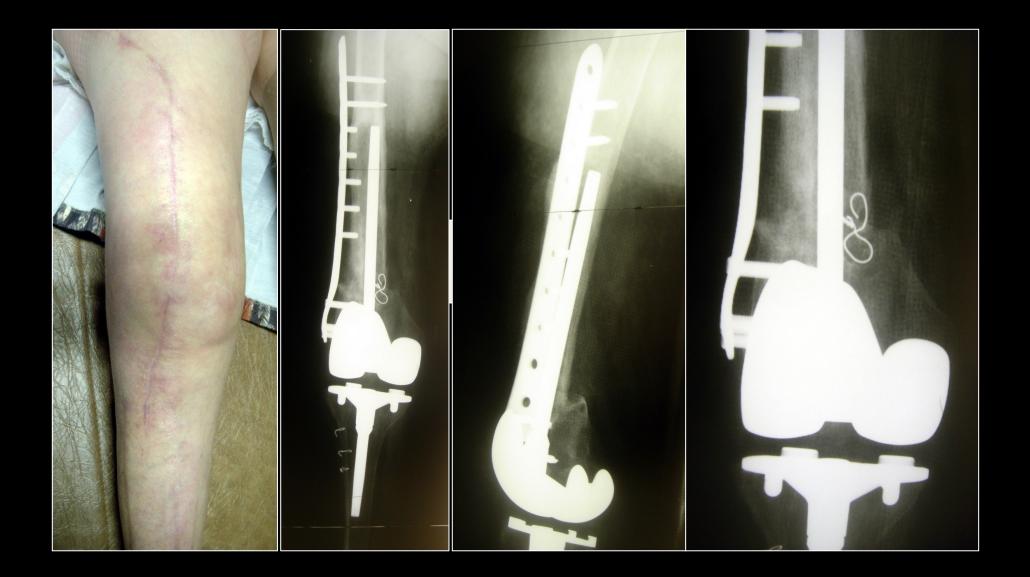


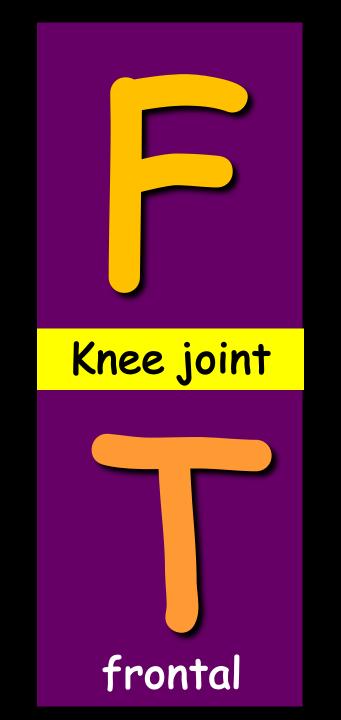
Combining a DFO with a TKA ?

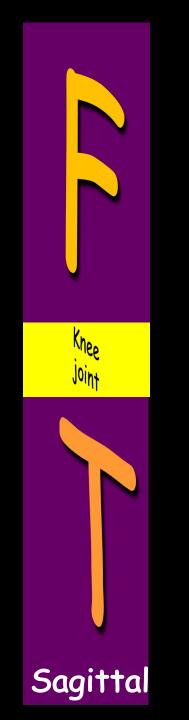


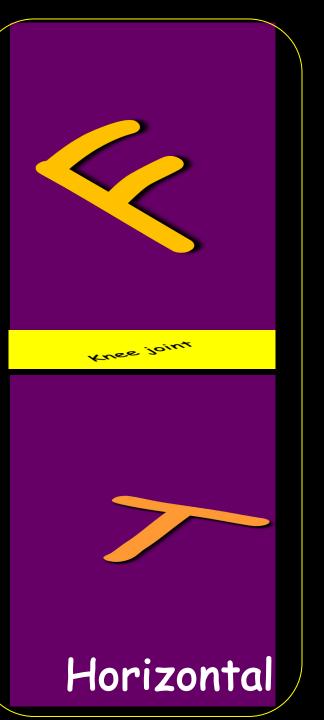
Not always a slam dunk









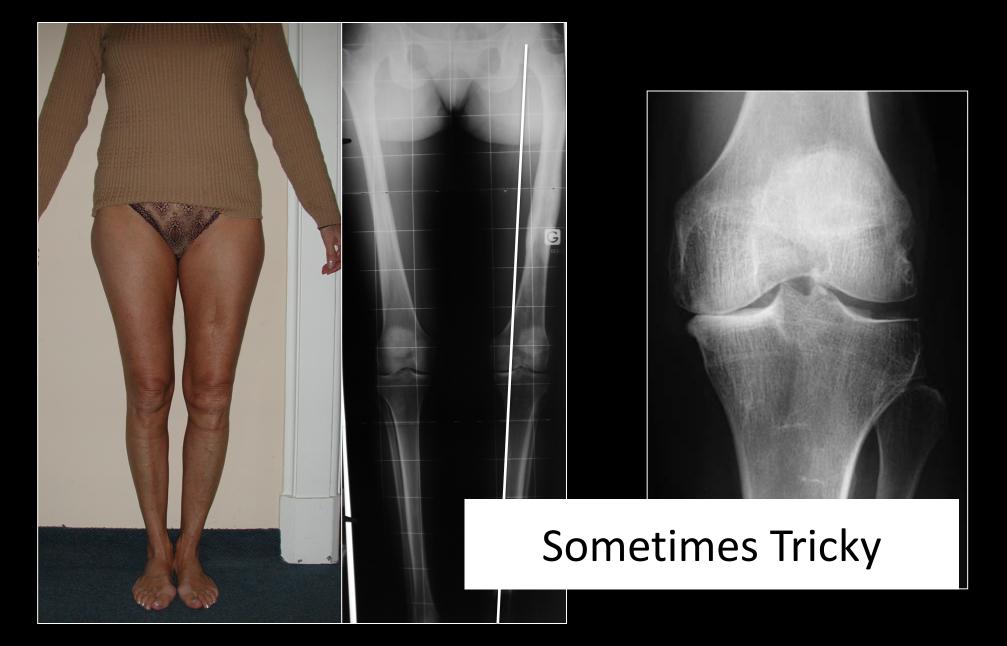


OA after axial plane (rotational) malunion

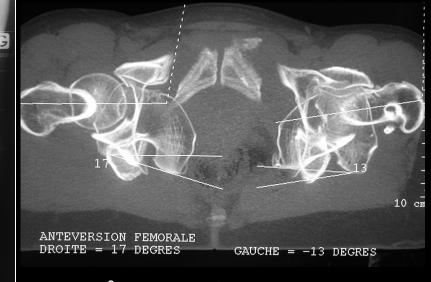
Femoral *external* rotation → medial OA Femoral *internal* rotation → lateral OA



Sometimes Obvious







30° external rotation !

HORIZONTAL DEFORMITY



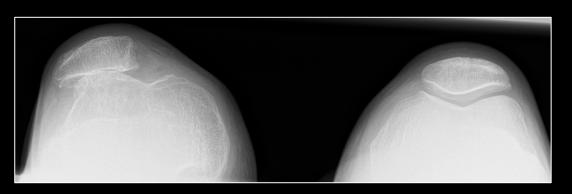
81 OA on malunion

- Rarely isolated
- Femur: external torsion 6 cases (6 MFTOA) internal torsion 1 case (1 MFTOA)
- Tibia : internal torsion 1 case

Limit <> 20°

Rotational osteotomies = 2 (20° and 25°)

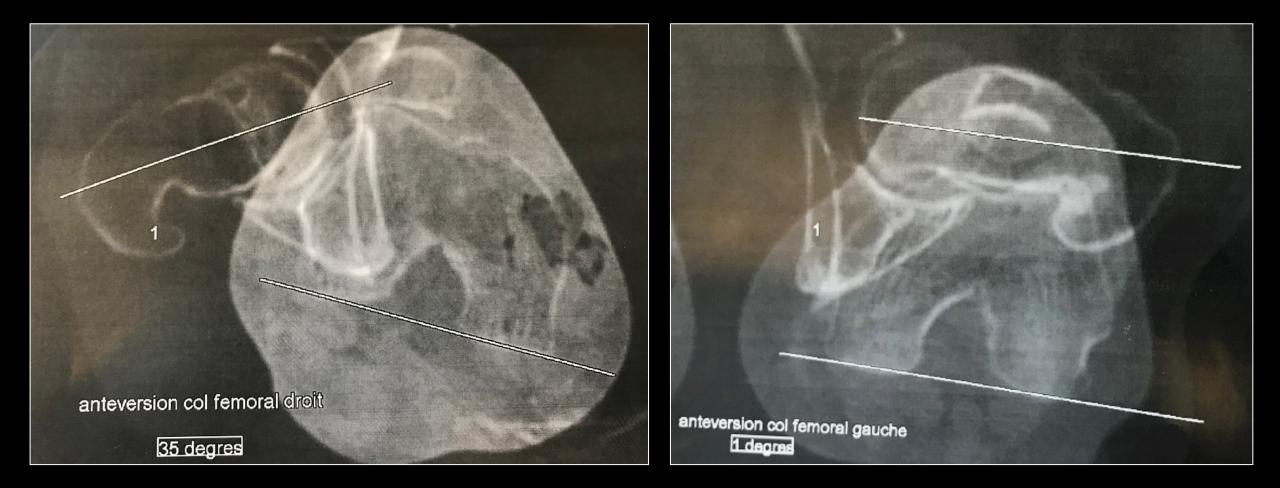
TKA = 6 (7° to 13°)











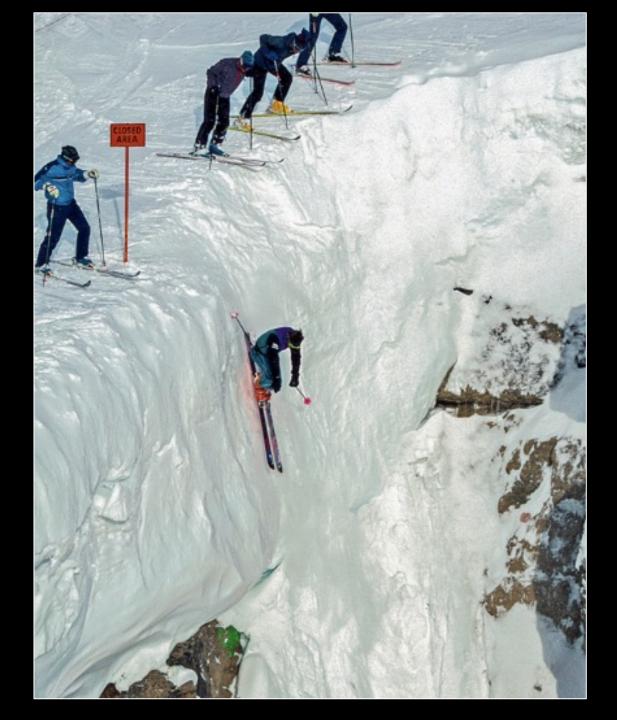




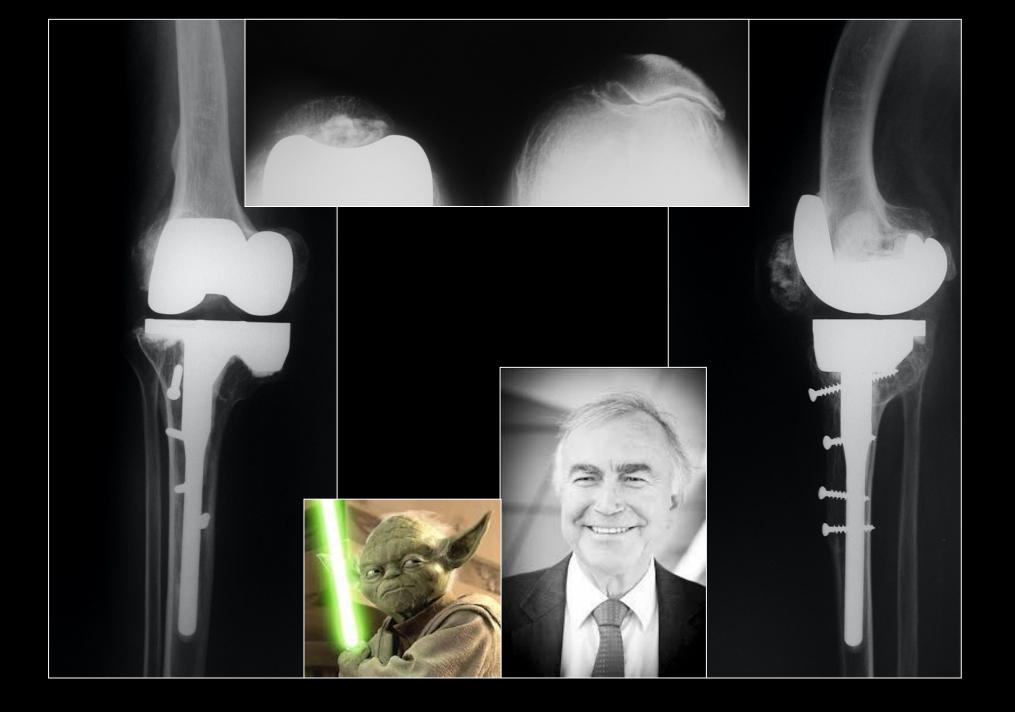






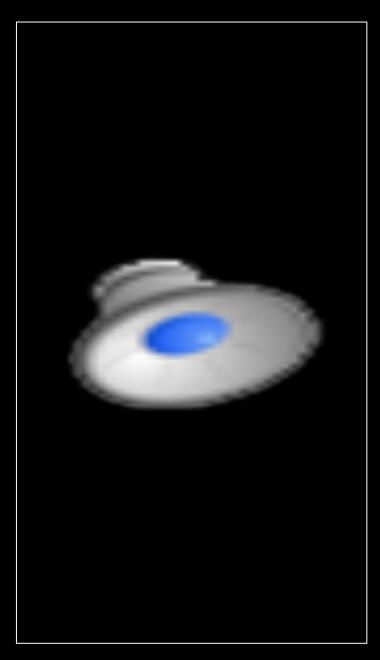




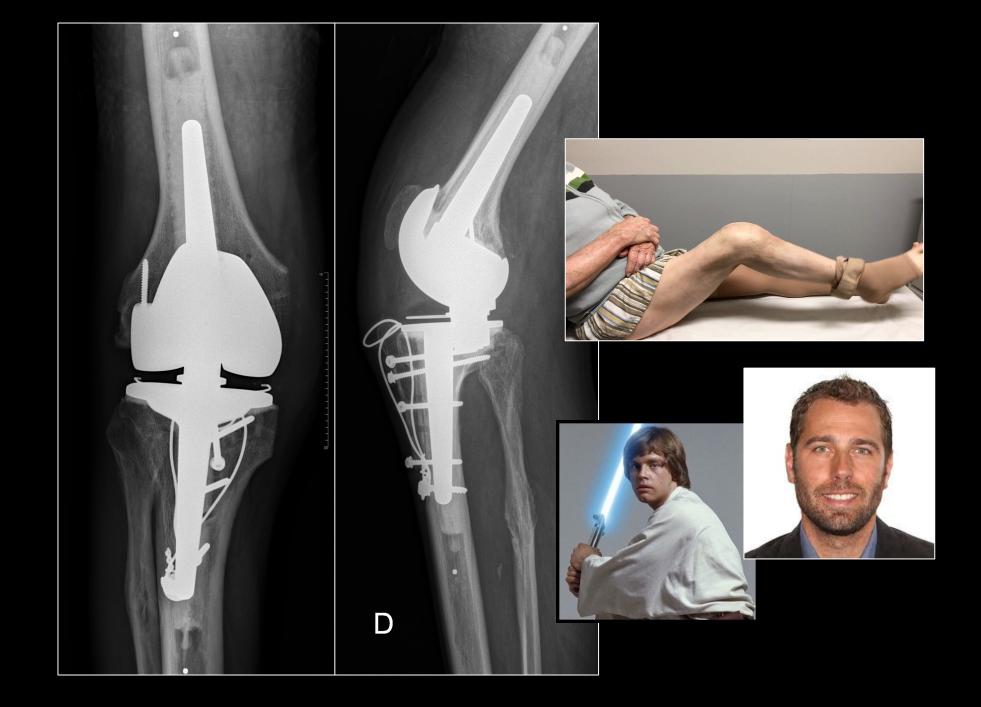








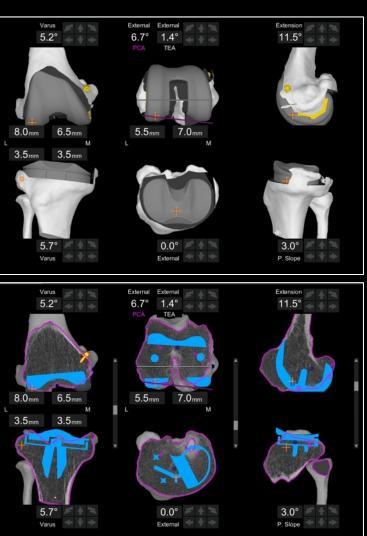








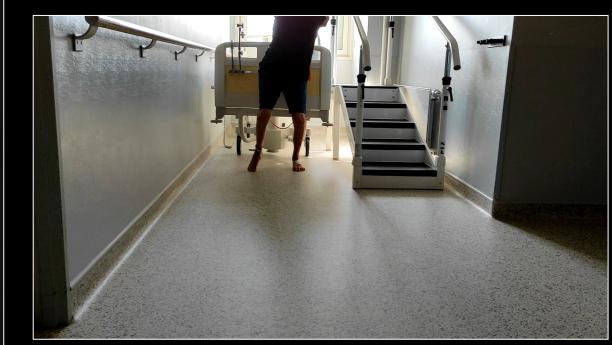






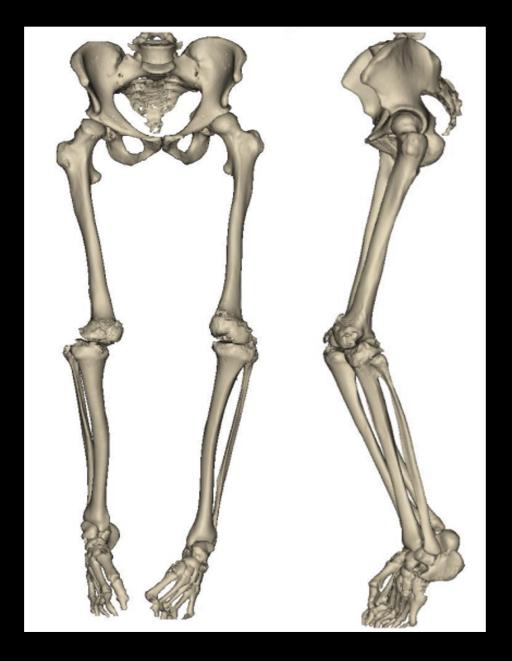












3D PLANNING







Take Home Message

- 3D ASSESSMENT IS MANDATORY,
- 1 STAGE VS 2 STAGE,
- SAGITTAL DEFORMITY CAN BE TOLERATED,
- ROTATIONAL MALUNION >20° NEEDS TO BE ADDRESSED
- CUSTOM IMPLANT FOR EXTREME CASES





Thank You







