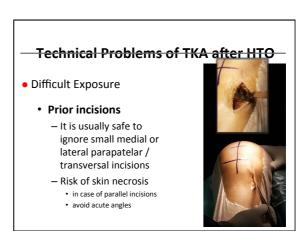
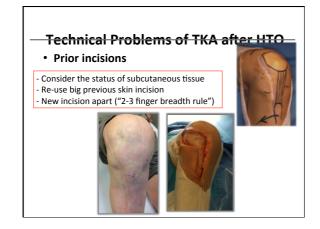
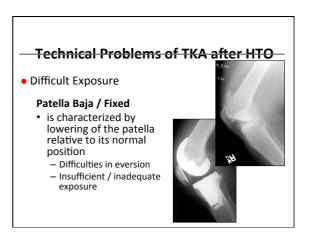
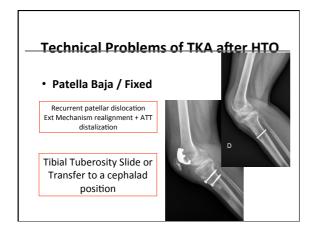


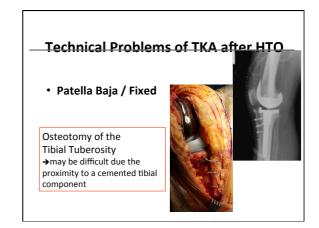
Technical Problems of TKA after HTO Difficult Exposure Bone Defects / Deformities Difficult Ligament Balance Prolonged Operative Time

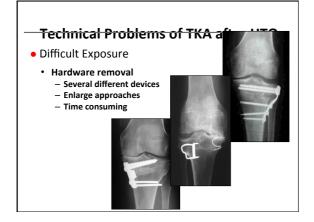


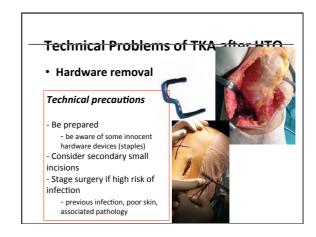


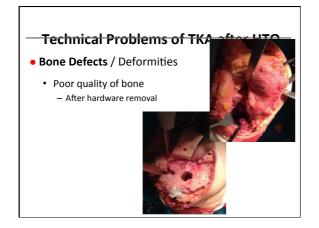


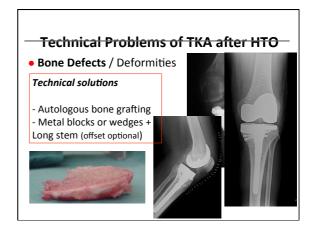


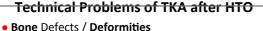












- Proximal tibial distortion
 - Minor / Major deformities TP (varus/valgus/ TP lateralization)
 - Tilt of tibial plateau (increased/inverted slope)
 - Alterations of the medullary canal





Technical Problems of TKA afte

Proximal tibial distortion

The tibial cut should be referenced off the the most preserved compartment, which may leave a defect on the contralateral side of the tibia that requires bone grafting and/ or metal block.



Technical Problems of TKA after HTO

- Difficult Ligament Balance
- Closed wedge
 - MCL a priori intact/retracted
 - LCL usually lax





Technical Problems of TKA after HTO

- Difficult Ligament Balance
- · Open wedge
 - MCL can be weak (most anterior fibers)
 - Potential medial laxity (particularly in flexion)
 - A few problems in our
 - experience





Technical Problems of TKA after HTO

• Difficult Ligament Balance

- Check stability in extension & in flexion before cutting bone (tibia and femur) - Limit bone resection - Use a PS model +/- a stem Consider constrained TKA



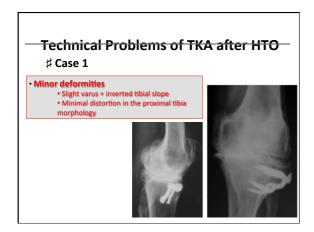




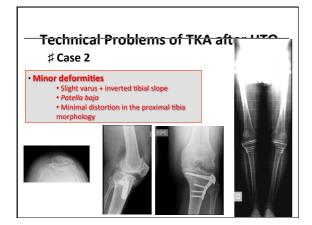
Technical Problems of TKA after HTO

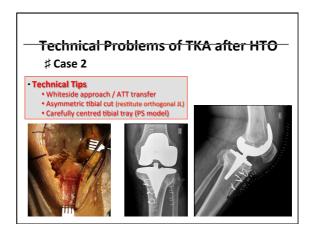
- Prolonged Operative Time
- 50 consecutive TKA post HTO compared to 50 age matched primary TKA
- Results
 - Interval from HTO to TKA avg → 7.3yrs (2-12)
 - TKA avg → 23 minutes longer surgery p<.05
 - Higher patellar subluxation in HTO group p<.05
 - No difference in Revision Rate, KSS or HSS scores at avg F/U of 6.2 yrs

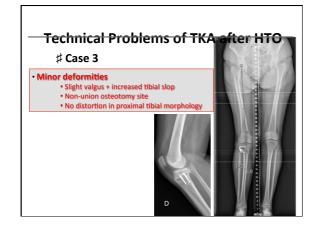
Quite optimistic Haddad J Arthroplasty 2000

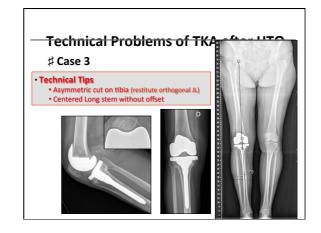


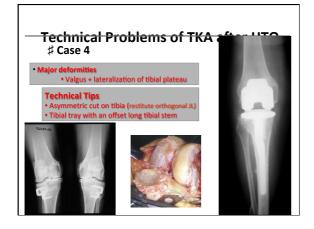




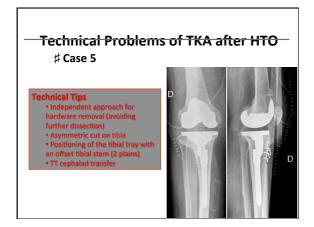


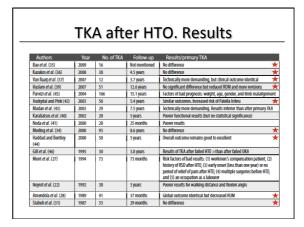












Summary

- APPROACH
 - Incision and skin flaps / Removal of hardware / Patela Baja
- BONE CUTS
 - Decreased bone STOCK / Offset tibial shaft medially / Anterior tibial slope
- SOFT TISSUE BALANCING

Release to achieve correct alignment / Restore tibial slope

Take Home Message

- Never easy surgery
- Careful surgical plan
 - Hardware removal
 - TKA model (metal blocks and offset stems)
 - Extra-time (Tourniquet time)

