

Periprosthetic fractures

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How joints fail

- Instability
- Infection
- Loosening
- Osteolysis
- Metallosis
- Fracture





Incidence

Peitgen et al JOA 2018

- Periprosthetic femur fracture
- Uncemented, tapered, titanium stems
- 1.6% at 10 years
- 13.2% at 29 years
- THE major mode of failure in long term for cementless THA





Causes

- Falls!
- Implant design
- Rethink Cement?
- Surgical approaches
- Osteolysis
- Osteoporosis





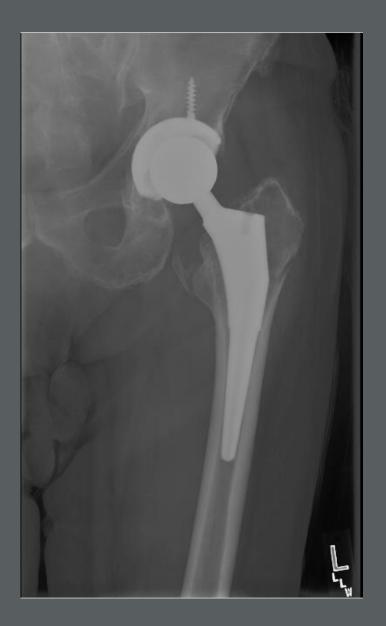
Classification

Periprosthetic hip fractures

- Vancouver
 - A: Pertrochanteric
 - B1: Fixed stem
 - B2: Loose stem
 - B3: Poor bone
 - C: Distal to implant















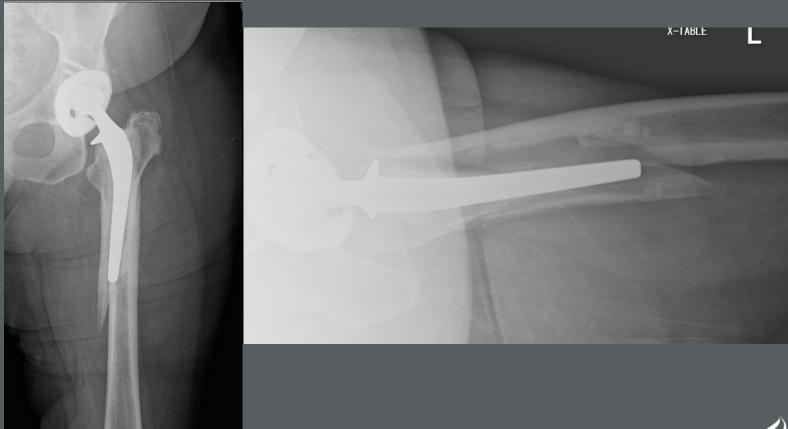
























Interprosthetic fractures



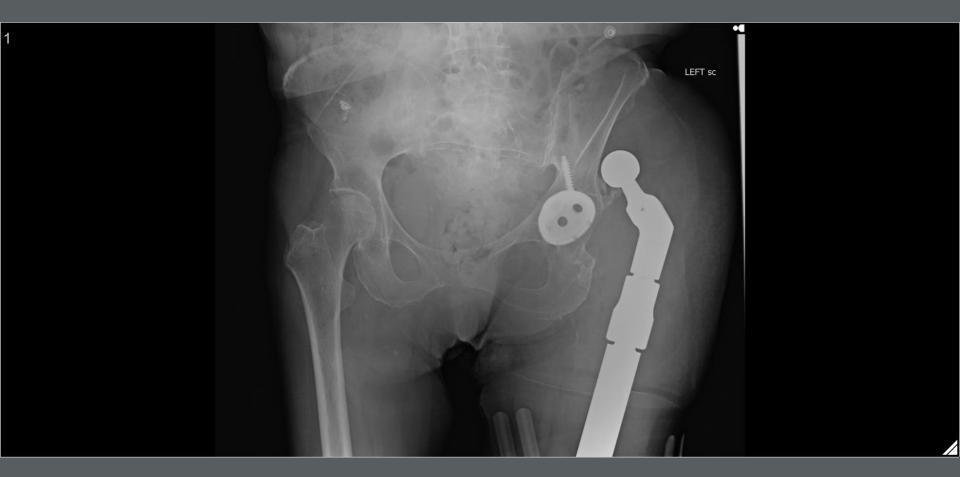






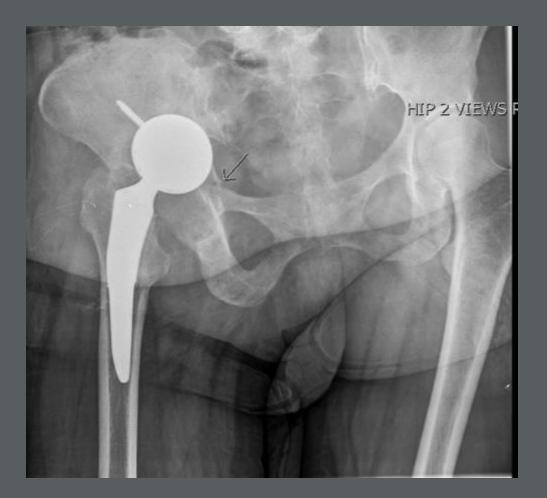




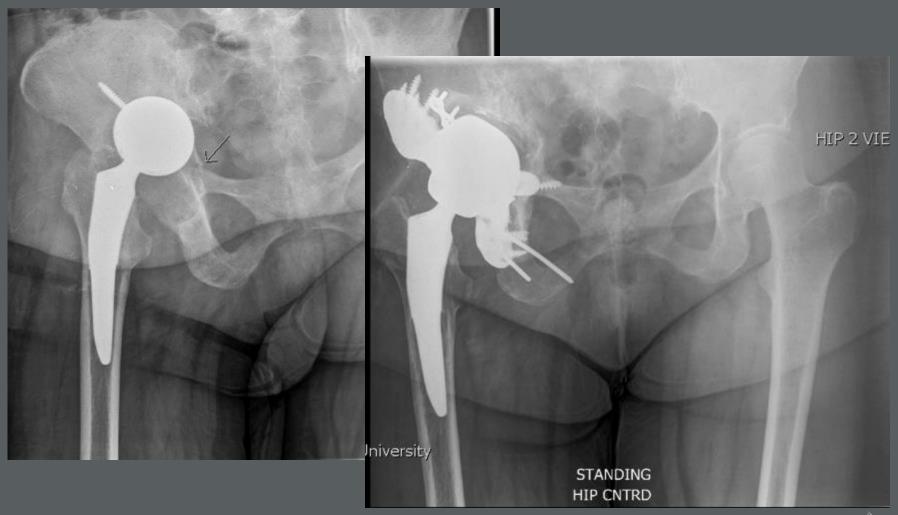




Not just the femur

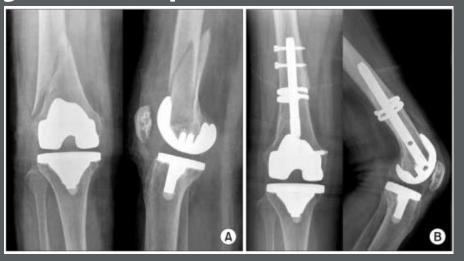








Not just hips







Not just trauma Left 'knee' pain, May

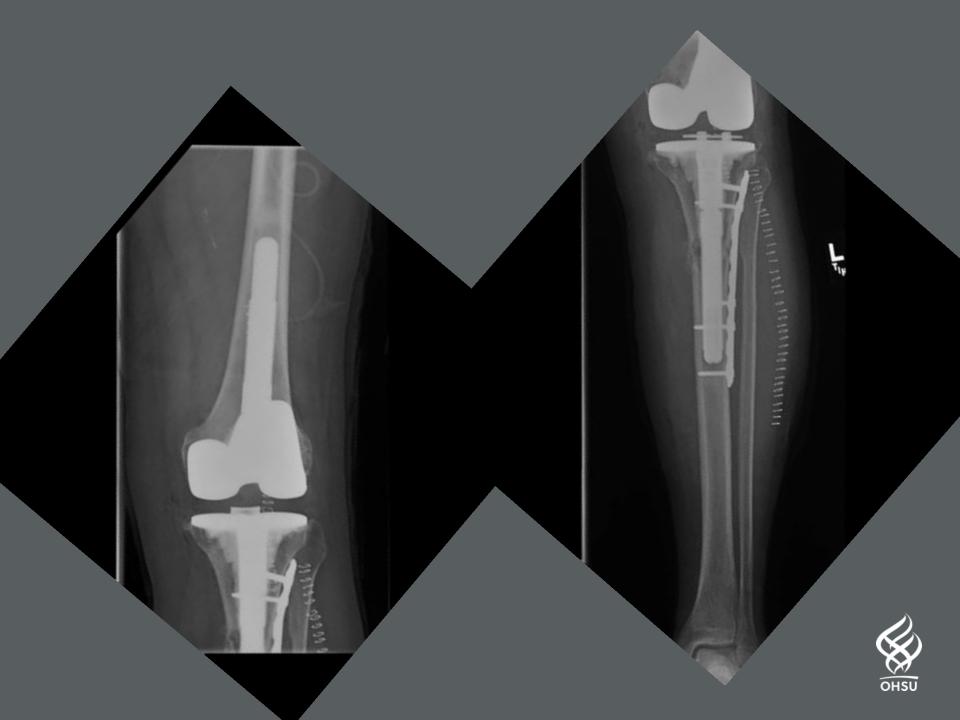




August





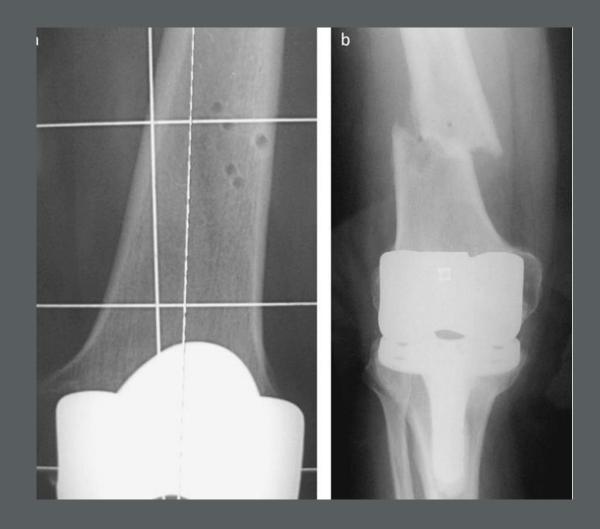


December

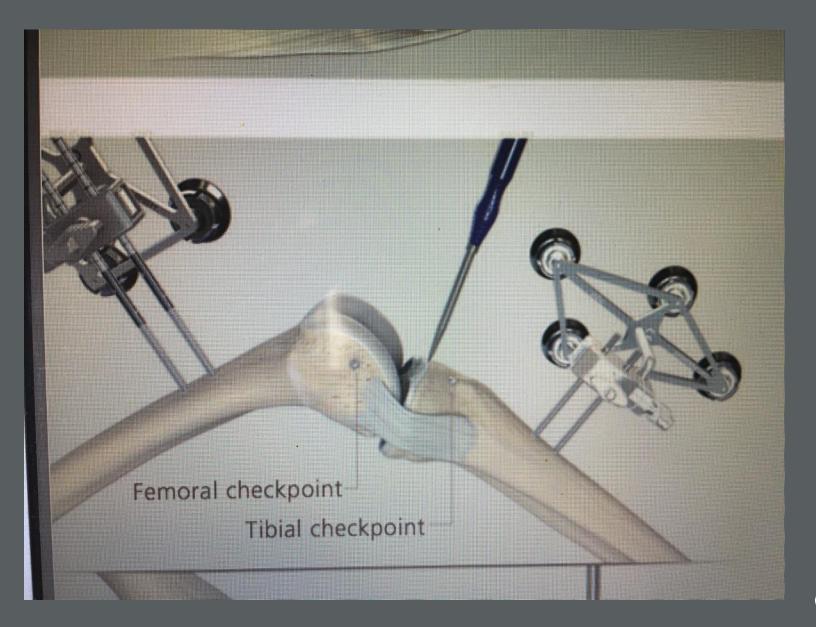


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They're back!









Periprosthetic fracture Summary

- Technically challenging
- Procedures range in complexity
 - Cables only to total femur replace
- Surgical goals
 - Stabilize fracture
 - Restore alignment
 - Promote early weight bearing
 - Poly exchange?
- Extensive contingency planning
- Implant identification





Periprosthetic Fracture Summary

- Urgent
- General anesthesia
- Not minimally invasive
- Recovery
 - Not like a primary joint
 - Age
 - Mode of failure
 - Extensiveness of procedure
 - Patients older, more frail, medically complicated





Thank you!





Thank you!





Thank you



