



Trauma Revision

Andrew Gray

Case 1



Case 1



Case 1

ID: F4622220967
DoB: 1964-07-03
No. 1
2009-10-08
15:21:58
2009-10-08
15:21:58



View:

Main NGH
SIEMENS FD-X
2009-10-08
15:19:52

ID: F4622220967
DoB: 1964-07-03
No. 1
2009-10-08
15:23:40
2009-10-08
15:23:40



View:

Main NGH
SIEMENS FD-X
2009-10-08
15:19:52

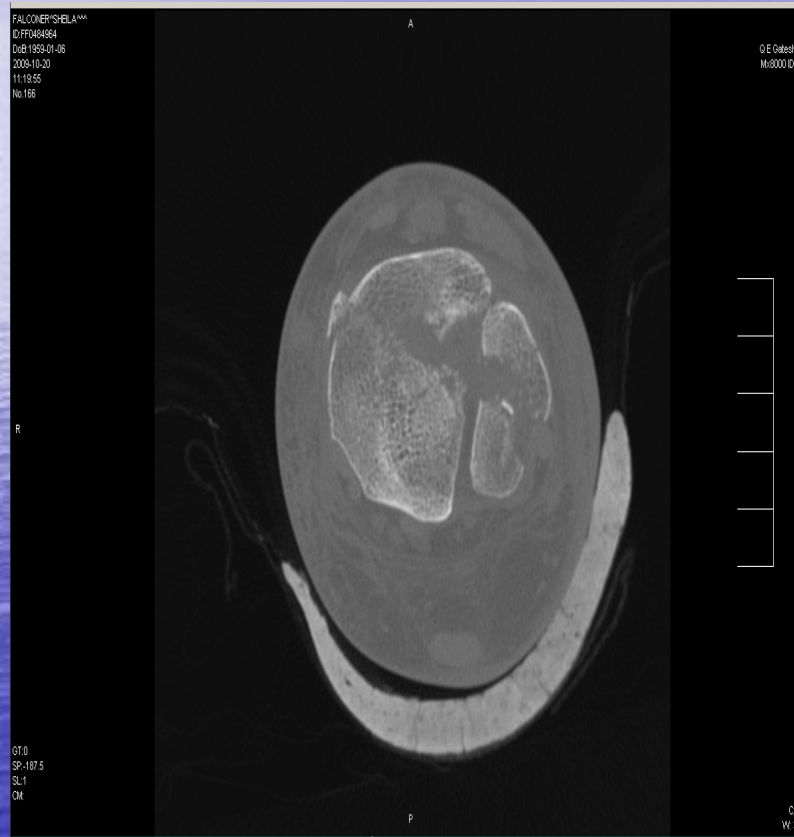
Summary

- Gustilo classification of open fractures
- BOA – Boast 4 – management of open lower limb fractures
- Peripheral Nerves
- Periarticular fractures – restore joint surface / attach to metaphysis / graft defects 8 weeks after injury

Case 2



Case 2



Case 2



Case 2



Assessment: History

- mechanism of injury
 - high vs low energy mechanism
- systemic disease
 - diabetes
 - smoking



Physical Examination

- neurologic examination
- vascular examination
- soft tissue evaluation
 - open injuries
 - fracture blisters
 - extent of swelling

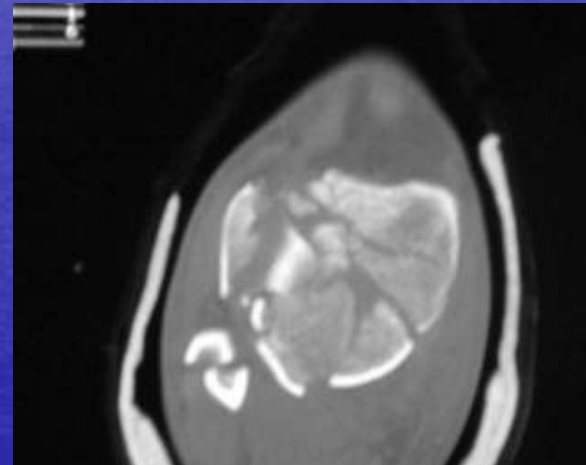


Radiographs



Imaging: CT scanning

- important part of preoperative planning



Treatment: Classic

1. Reconstruction of the fibula
2. Reconstruction of the tibial joint surface
3. Bone grafting
4. Medial buttress plate

Ruedi and Allgower, Clin Orthop, 1979.

The operative treatment of intra-articular fractures of the lower end of the tibia.

Soft Tissue Preservation: Timing

- definitive surgery when soft tissues are stable
 - resolved fracture blisters
 - skin wrinkles return
- early ?
 - simple extra-articular fracture types
 - safe soft tissues
- delayed
 - all others

Sirkin and Saunders, JOT 99

- review of 226 plafond fractures
 - 56 by staged Rx
- 3/56 deep infections

Fracture Blisters

- Clear VS Blood
 - Both represent cleavage between dermis and epidermis
 - Clear fluid – scattered areas of retained viable epithelial cells



Soft Tissue Problems



Staged ORIF

- swelling continues for 1-14 days after injury
- avoid further soft tissue injury
- reduce soft tissue congestion



Case 3



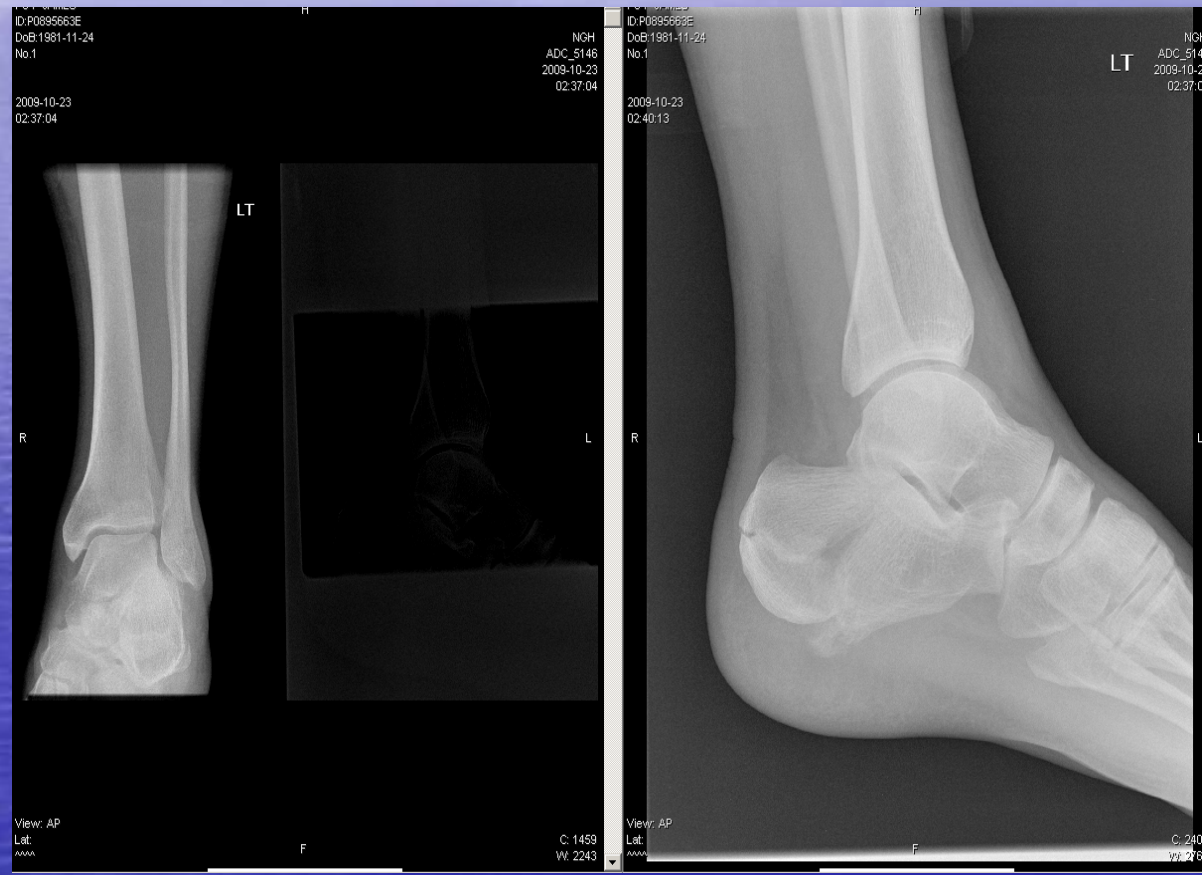
Case 4



Summary

- McKee papers on clavicle fractures
- Anterior approach to shoulder, humerus and radius
- Assessment of peripheral nerves
- Types and management of non-union

Case 6



Case 6



Case 6



Case 7



Case 7



Case 7

