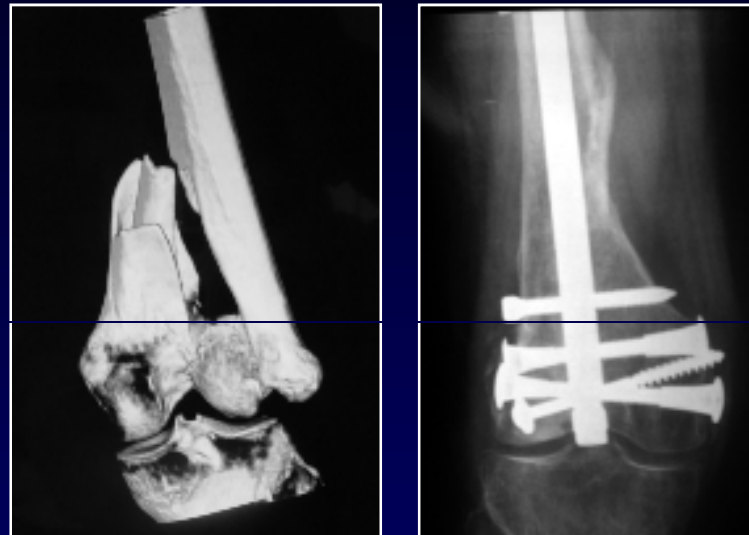


THE MANAGEMENT OF TYPE C DISTAL FEMORAL FRACTURES



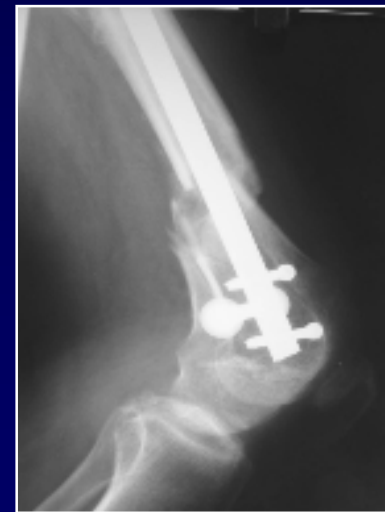
**Garnavos C, Lasanianos N,
Charalambidis E, Papagiannopoulos P, Boudouris P, Akrivos I**

Athens General Infirmary “Evangelismos”



Aim of the Study

To investigate the role of intramedullary nailing in combination with compression bolts in the management of intra-articular fractures of the distal femur (type C according to AO classification).



Patients & Methods

Period: Jan. 2005 – Feb. 2009

Patients: 17 {9 ♂ (1 bilateral) – 8 ♀}

Ages: 26 – 85 y (mean 54)

Fractures: Intra or Supra-Intra Condylar
Recent fractures type C (AO/OTA)

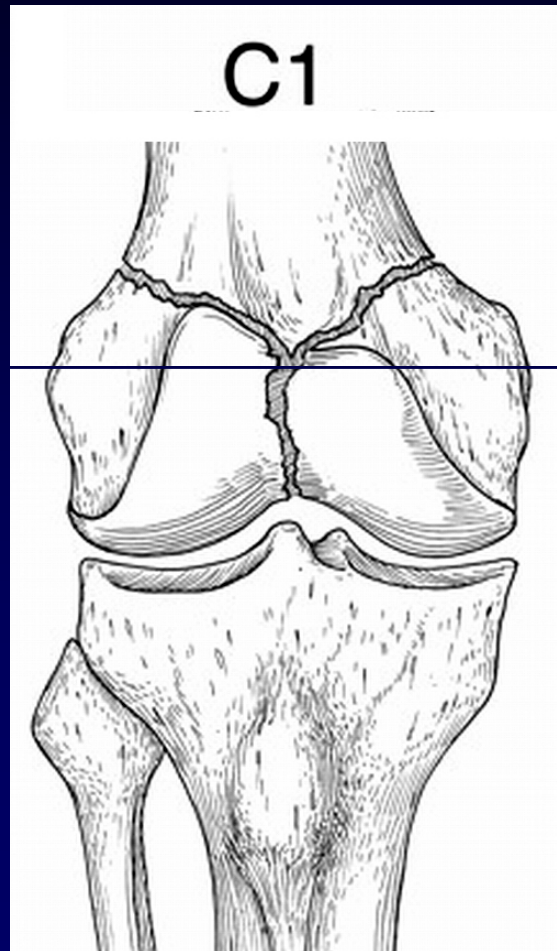
Type of nail: SCN nail (Stryker)

Time of surgery: 2 – 26 days post trauma

Follow-up: 2 – 28 months (mean: 12 m.)

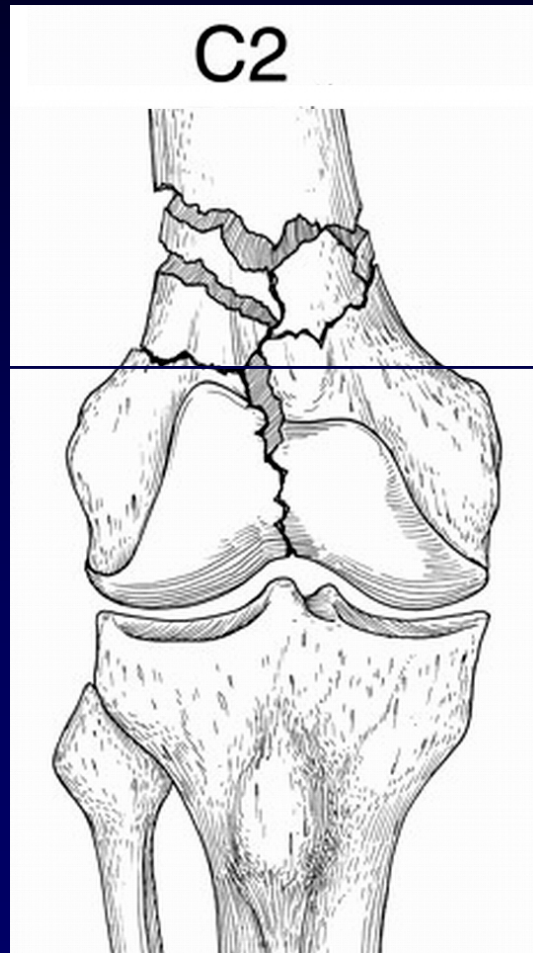
Classification (Distal Femoral fractures) (AO/OTA)

C1 : 8



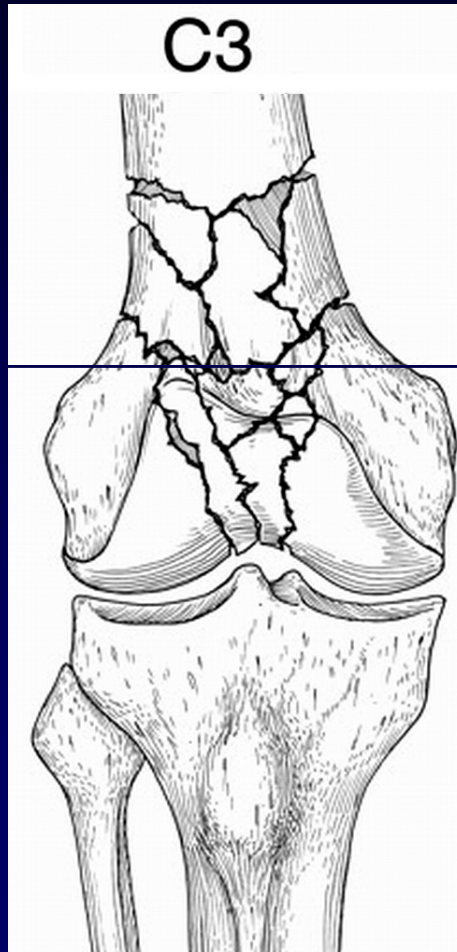
Classification (Distal Femoral fractures) (AO/OTA)

C2 : 7



Classification (Distal Femoral fractures) (AO/OTA)

C3 : 3



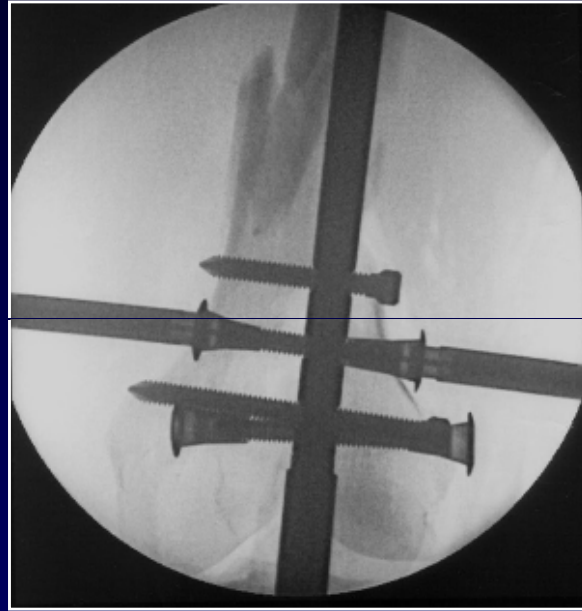
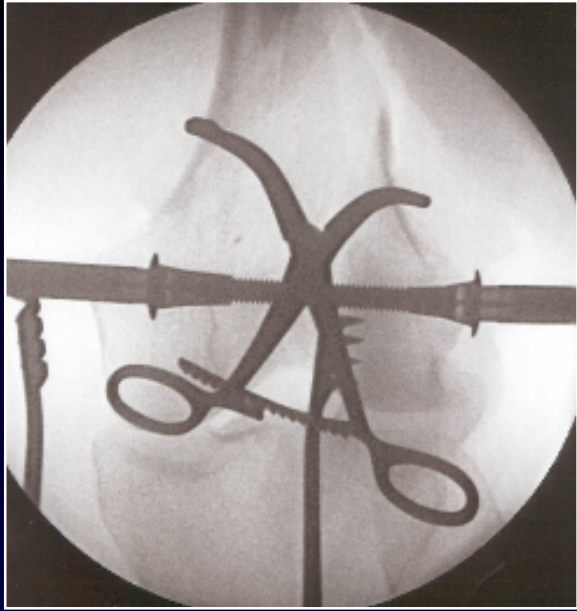
Surgical technique

In all cases the use of condylar bolts and nuts was combined with intramedullary nailing

- Outside of the nail: 1 1
- Via the nail: 4
- Combination: 3

Surgical technique

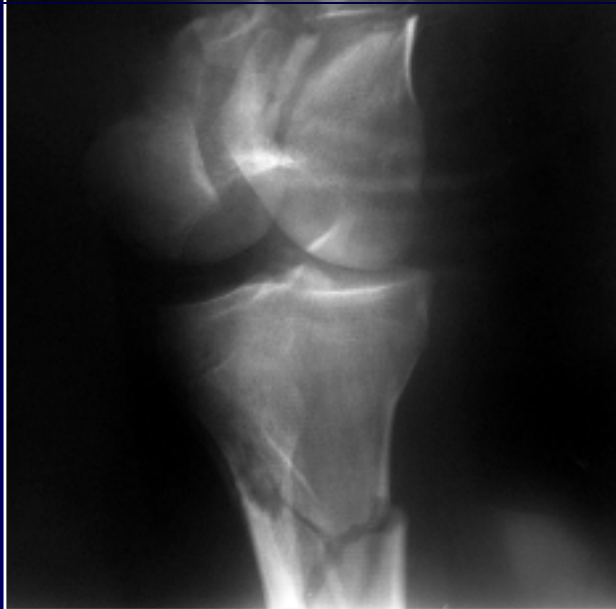


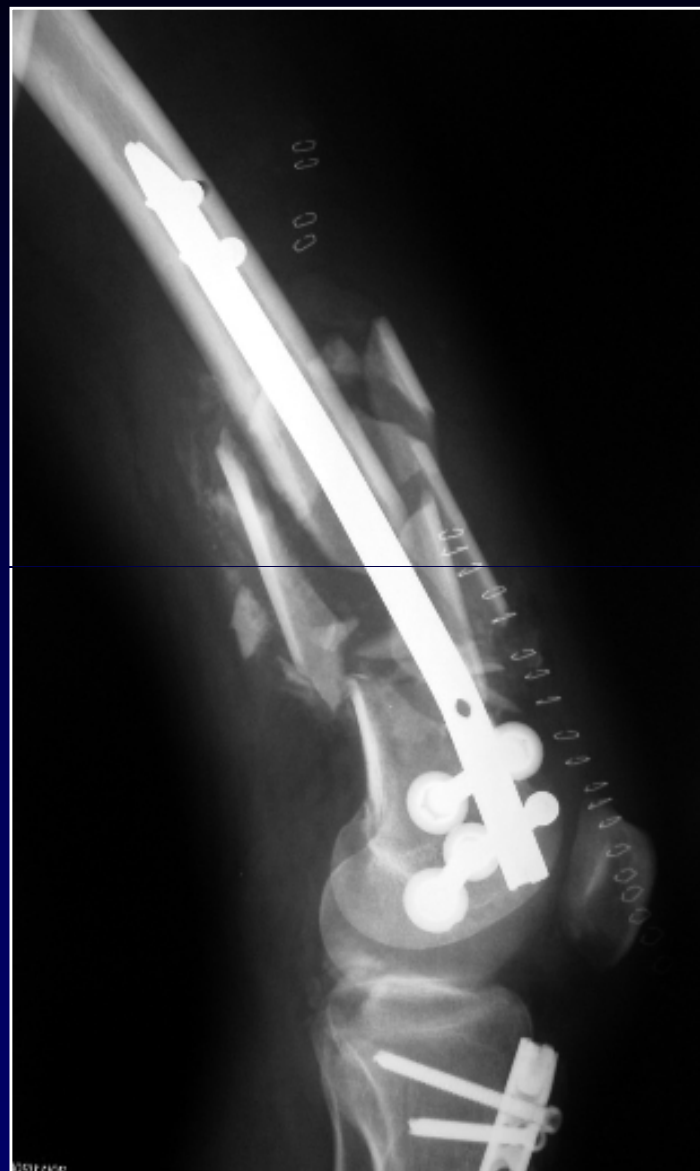
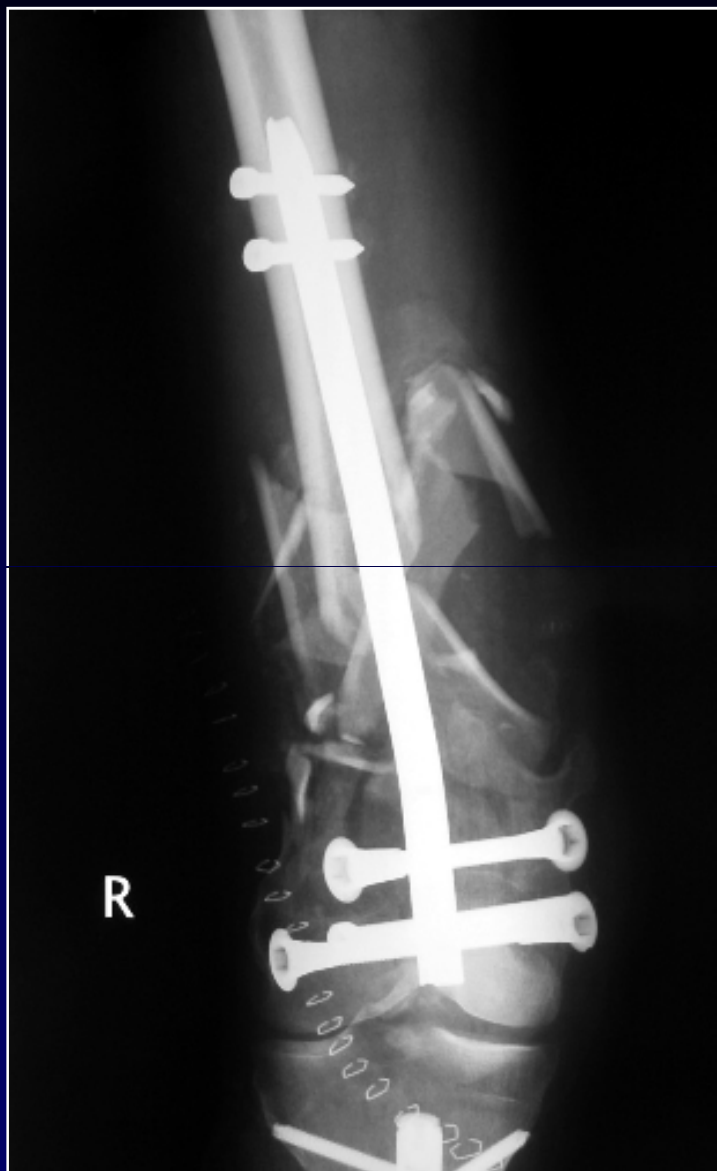


Results

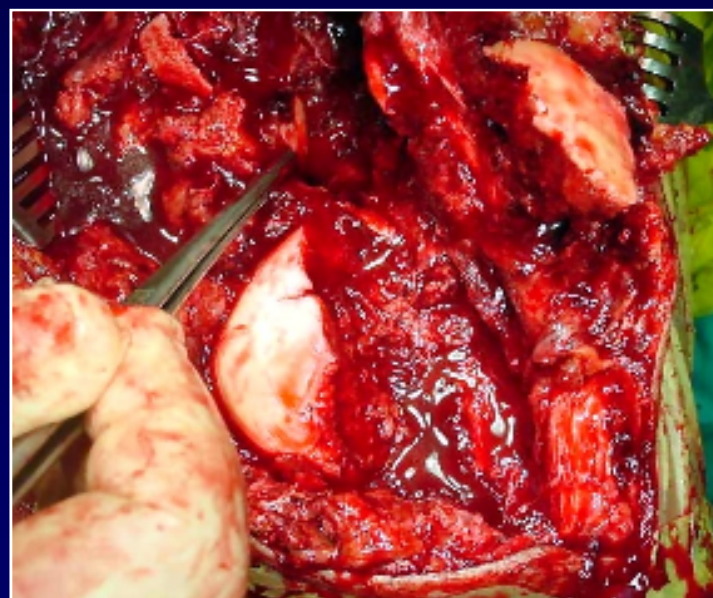
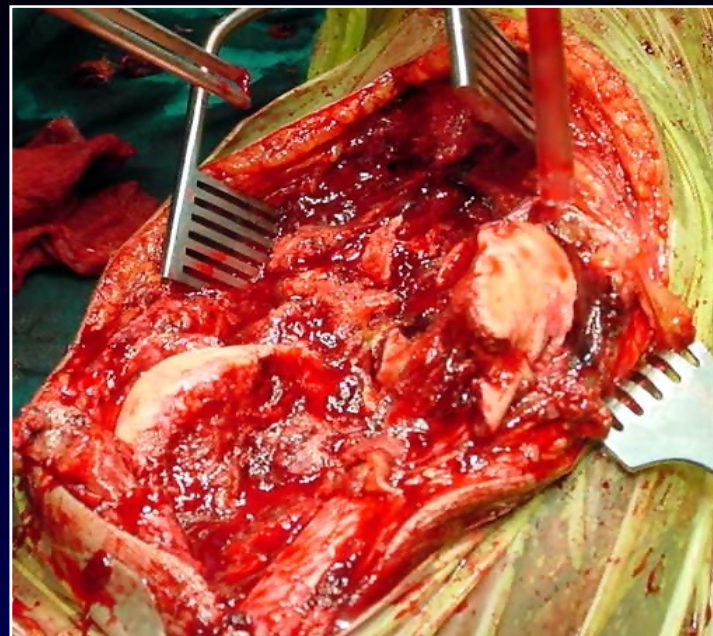
- No neurovascular complications recorded
 - No post-op inflammation recorded
- No complications that could be related to the use of the condylar bolts and nuts
 - Fractures healing time: 3 – 5 months
- ROM: 0-5° of Extension & 110-130° of flexion

Cases





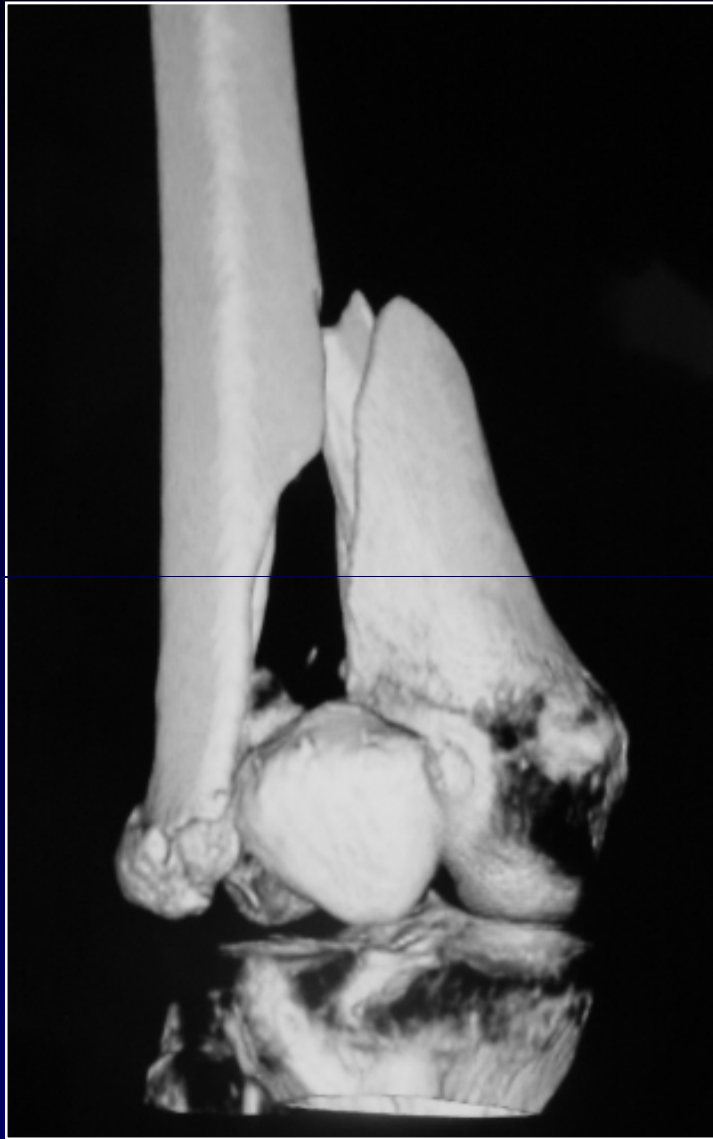
















Conclusion

- The use of condylar bolts and nuts contributes to the proper management of the intra-articular fractures of the knee joint by the use of intramedullary nailing by increasing the stability of the fixation and allowing earlier mobilisation and weight bearing of the lower limb.
- Our proposal for the future would be the comparison of this technique with other techniques used for the treatment of this type of fractures.

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Thank you !