Foot and Ankle Symposium: Post-traumatic Reconstruction S. Robert Rozbruch, MD Director, Institute for Limb Lengthening and Reconstruction



www.LimbLengthening.com

HOSPITAL FOR SPECIAL SURGERY

Fibula lengthening

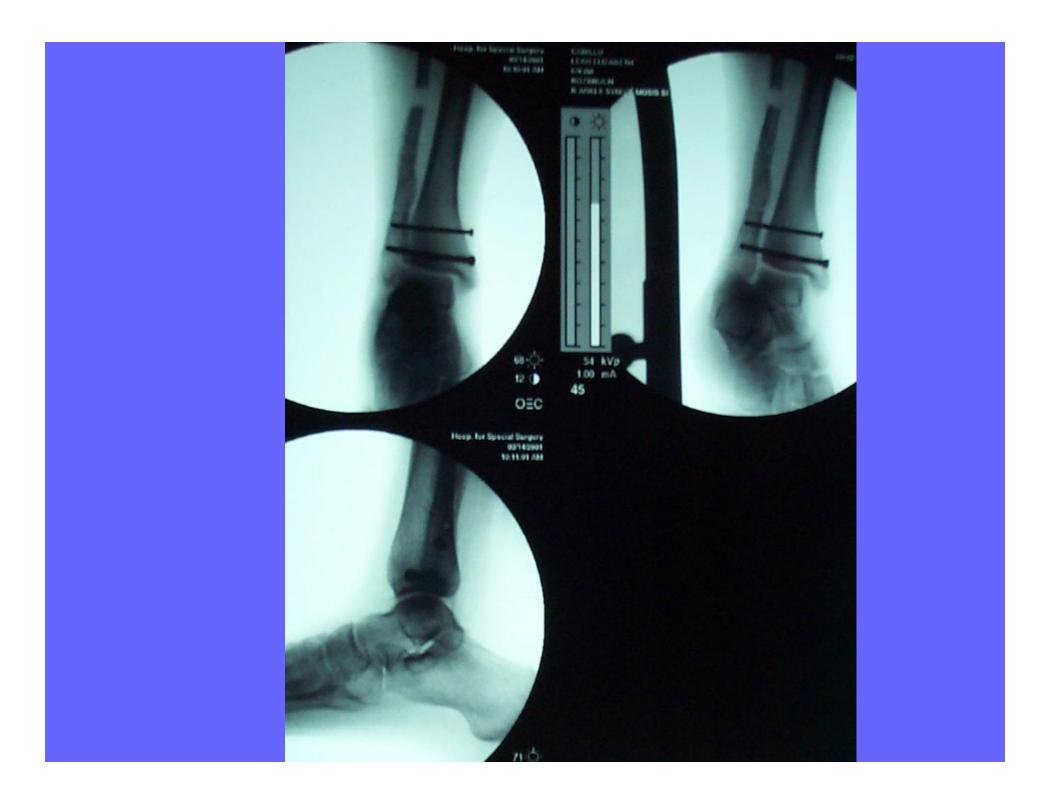
Short fibula





End Distraction, 2weeks













Ankle Fusion with Ilizarov Frame

Septic arthritis and osteomyelitis after ankle fracture and initial treatment

Richard, injury \rightarrow ORIF





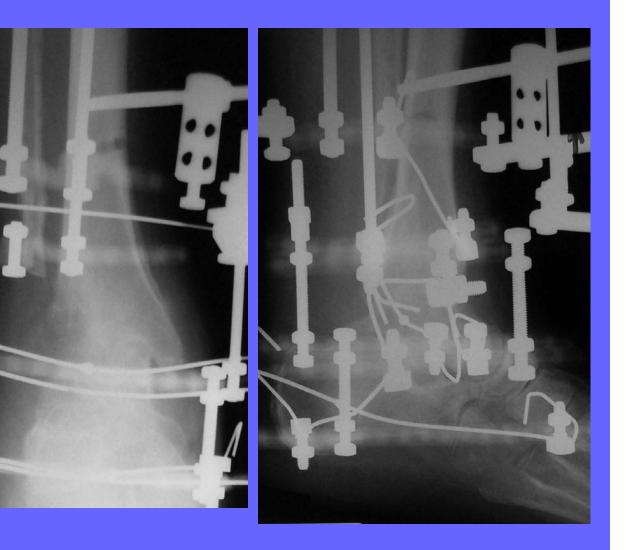
After ORIF, osteomyelitis, septic arthritis





















Bone Transport ankle fusion

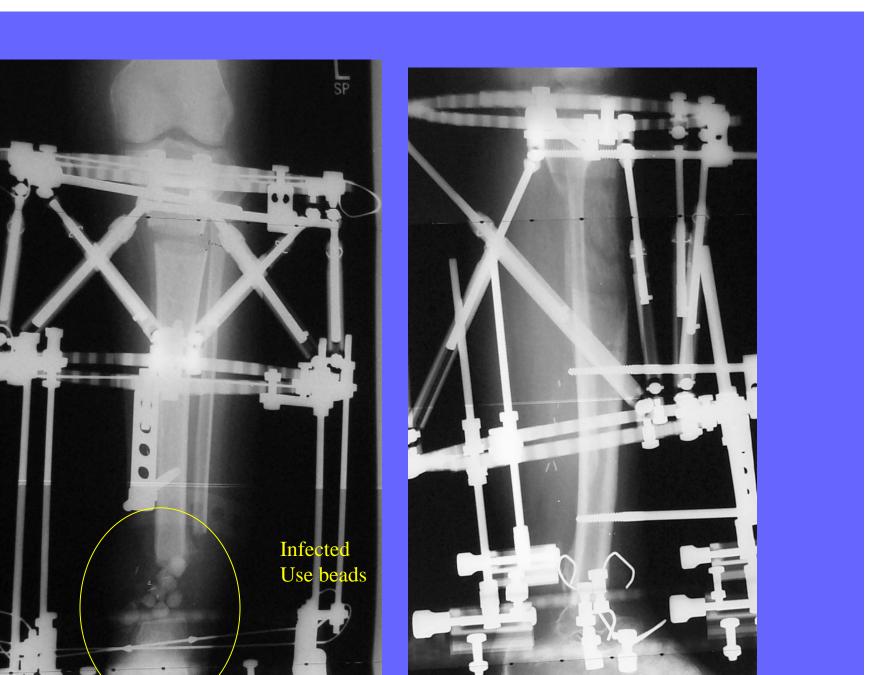
Septic arthritis andosteomyelitis with bone loss after trauma



preop

Needs 8 cm lengthening and tibio-talar fusion



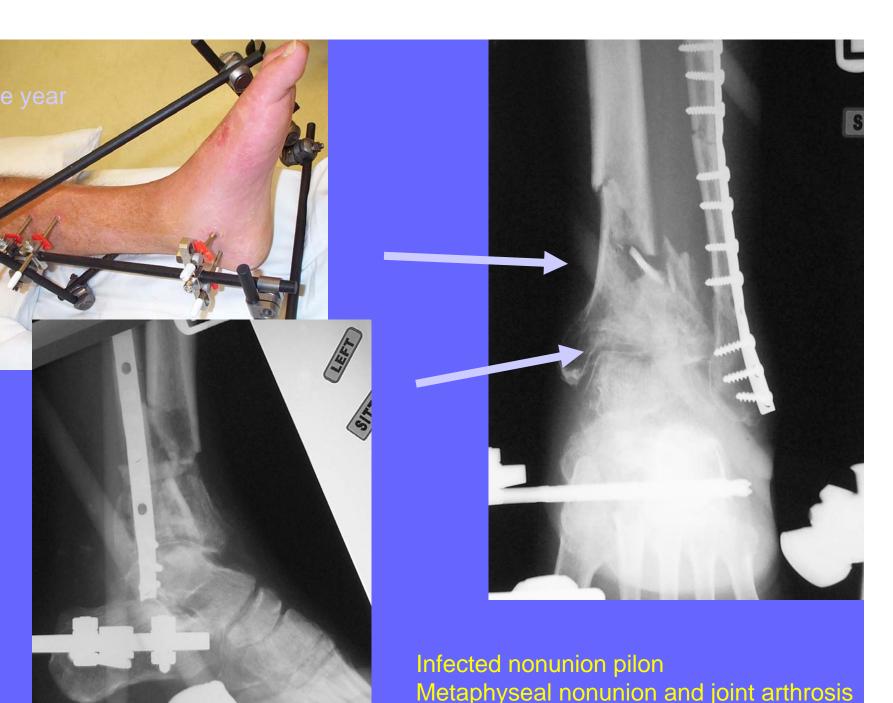


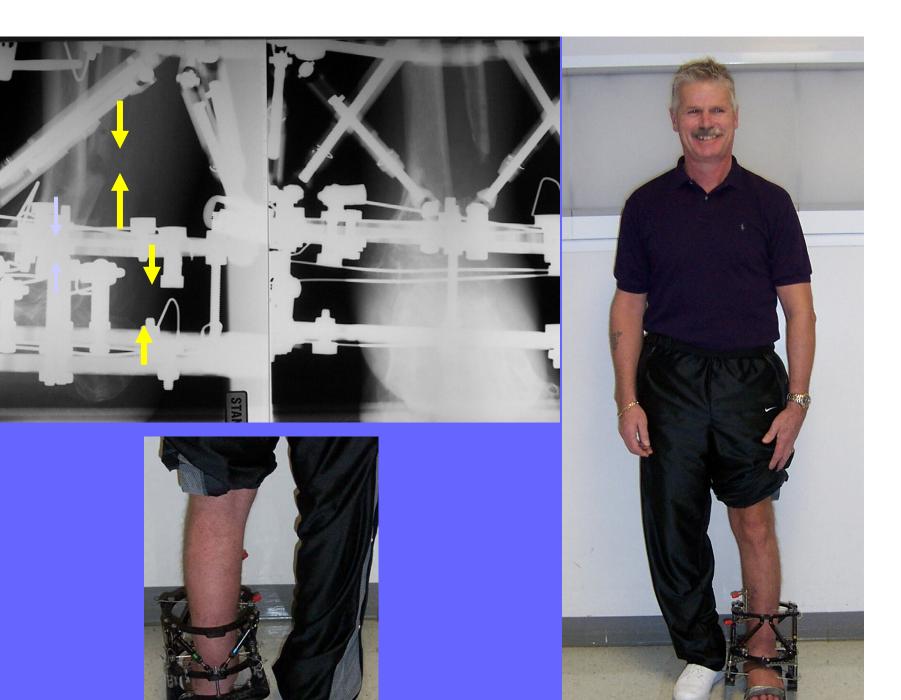


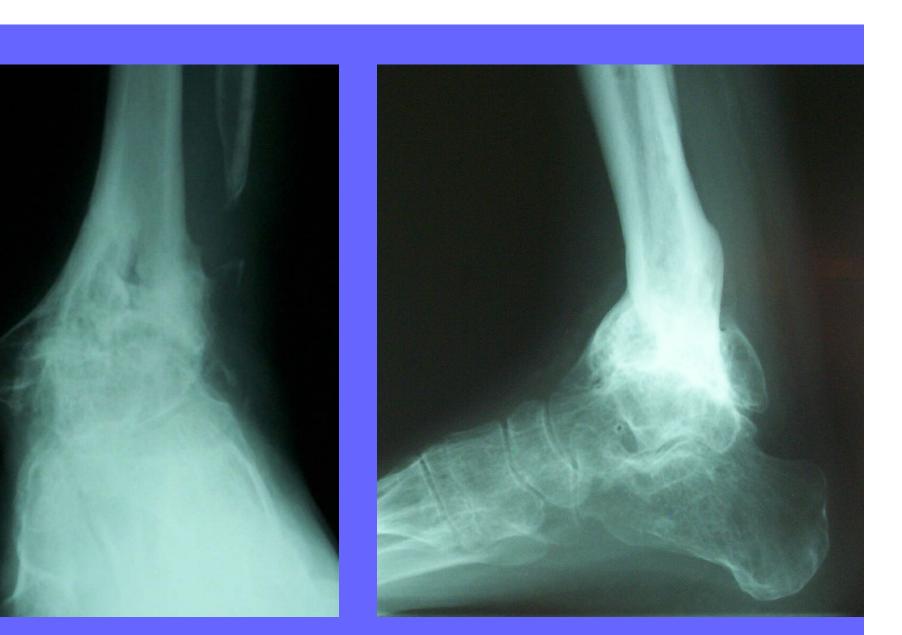


Repair of distal tibia nonunion and simultaneous ankle fusion

Septic arthritis and osteomyeltis and nonunion after trauma







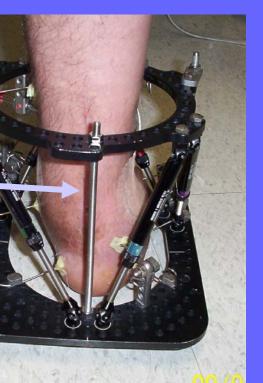
Ankle arthrodesis with gradual positioning of the foot

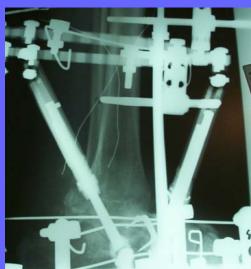
Post-traumatic arthritis with severe rigid equinovarus deformity associated with head injury



Cavovarus Head injury Post-trauma







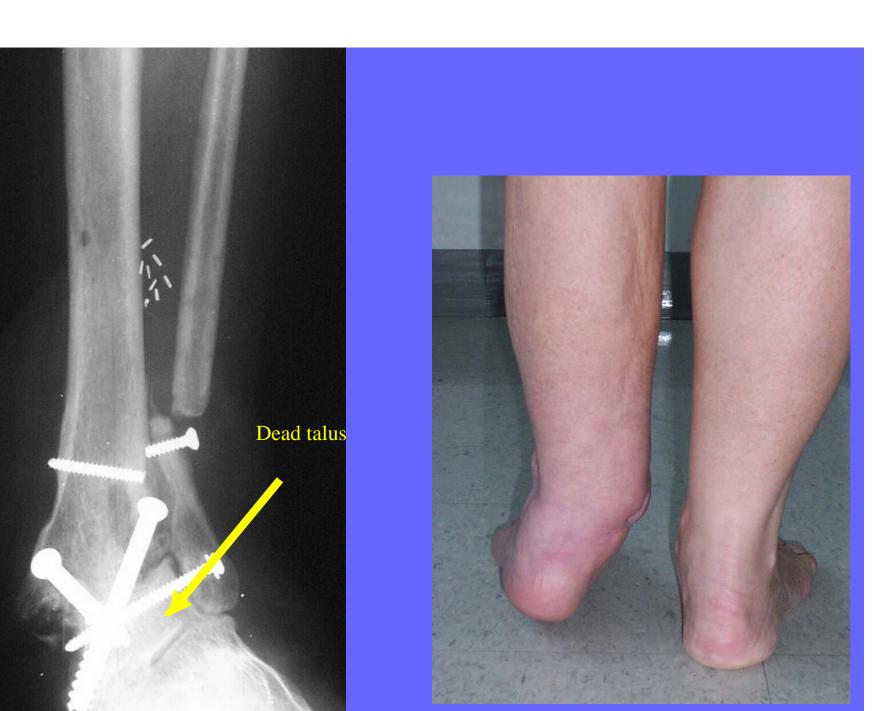


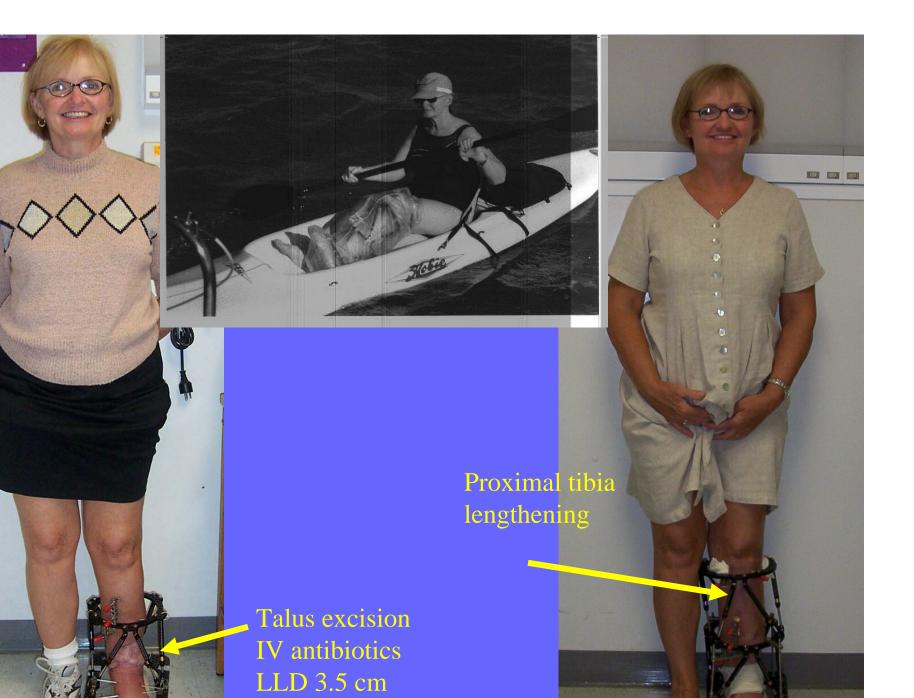


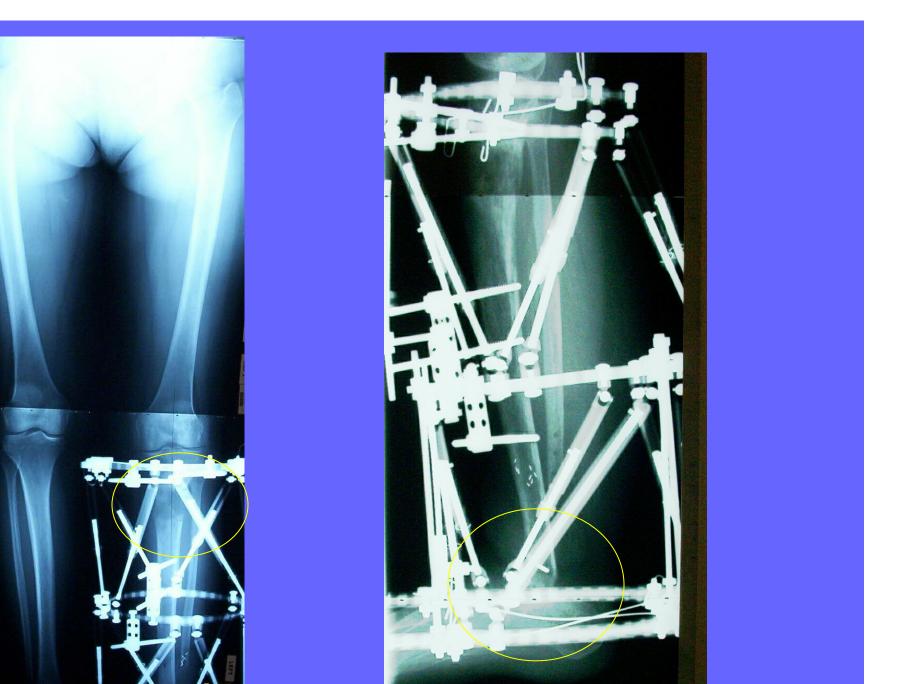


Tibia to Calcaneous ankle fusionwith simultaneous lengthening

For failed ankle fusion with necrosis of the talus











Distal tibia and fibula osteotomy for engthening and deformity correction

Malunion of tibia with valgus, shortening, and pain/early arthritis of ankle 25 y/o M, open tibia fx Boating accident









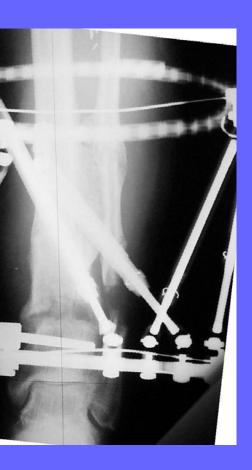


PREOP Tibial malunion

15 deg VALGUS 1.5 cm short Lateral ankle OA and pain BIG FLAP



4 months

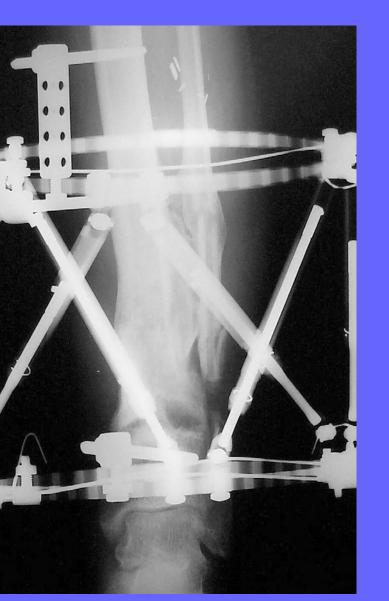








5 months at Frame Removal



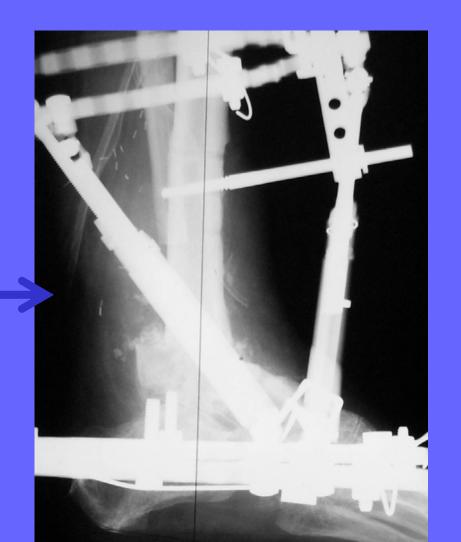




Osteotomy and gradual correction of a malpositioned ankle fusion and simultaneous lengthening at the proximal tibia

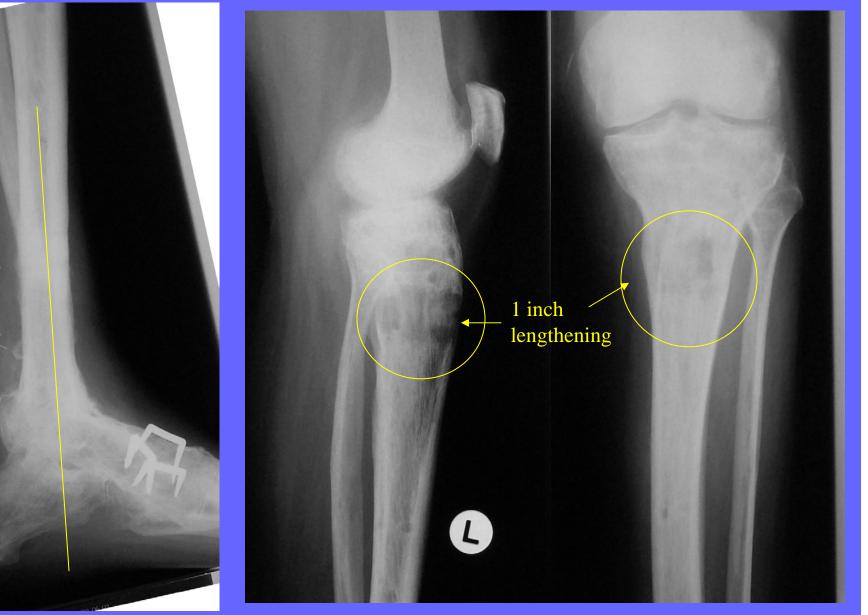
Malposition of ankle fusion

Anterior translation Calcaneus Dorsiflexion def LLD- too short



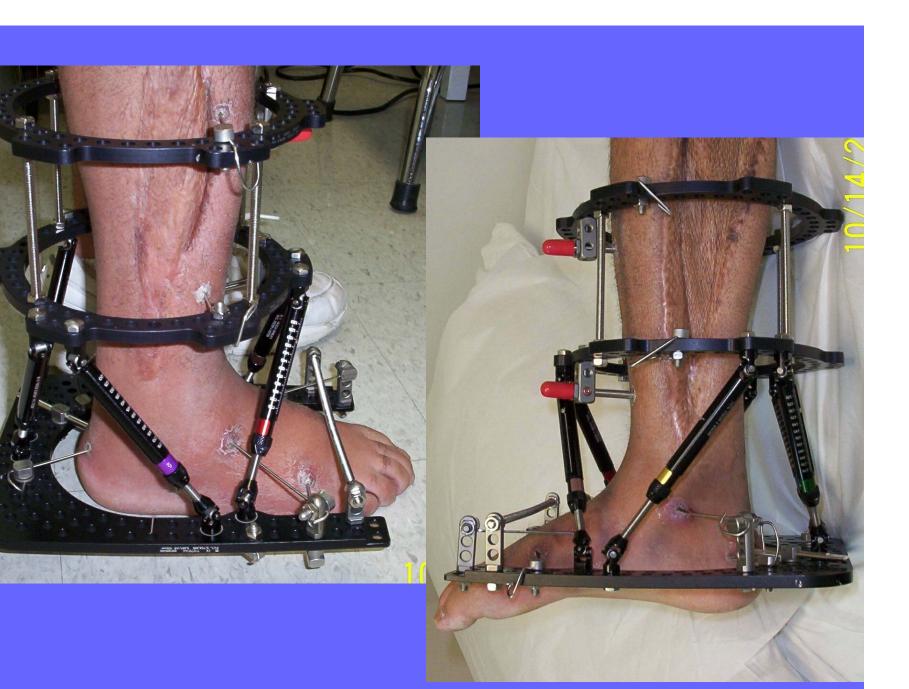
Works No. 7 and to the state of the little with

6 months



Gradual correction of an equinus ankle contracture









ankle contracture

we choose the center of the talus as the rotation point ankle is also inclined

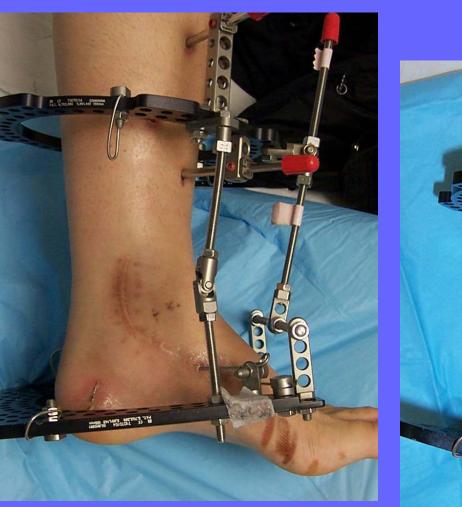
10 degrees off the neutral coronal plane

 mount ring 10 degrees off neutral



Ankle distraction for ankle arthritis and AVN of the talus









3 months



Ankle distraction and re-alignment osteotomy for deformity and ankle arthritis

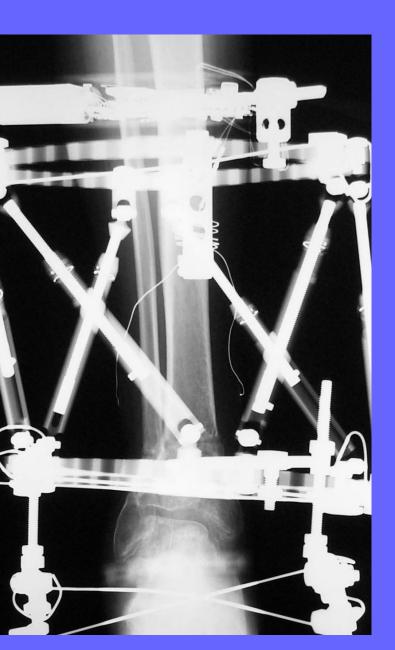
Ankle distraction with realignment



Medial plafond defect Increases varus

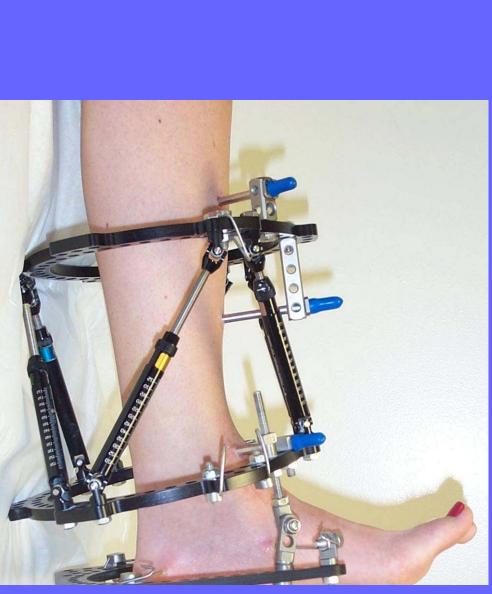














Repair of ankle nonunion with gradual correction of deformity

Altered malleolar relationship





