

14 Foot and Ankle Sympo



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SUBTALAR ARTHRODESIS

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Sentember 9th, 2011





SUBTALAR ARTHRODESIS

Indications posium

Foot and Ankle Posttraumatic subtalar arthrosis

Idiopathic subtalar arthrosis

Talo-calcaneal coalition

Varus or valgus deformity of the hindfoot tember 9th, 20



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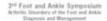
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Posttraumatic arthrosis

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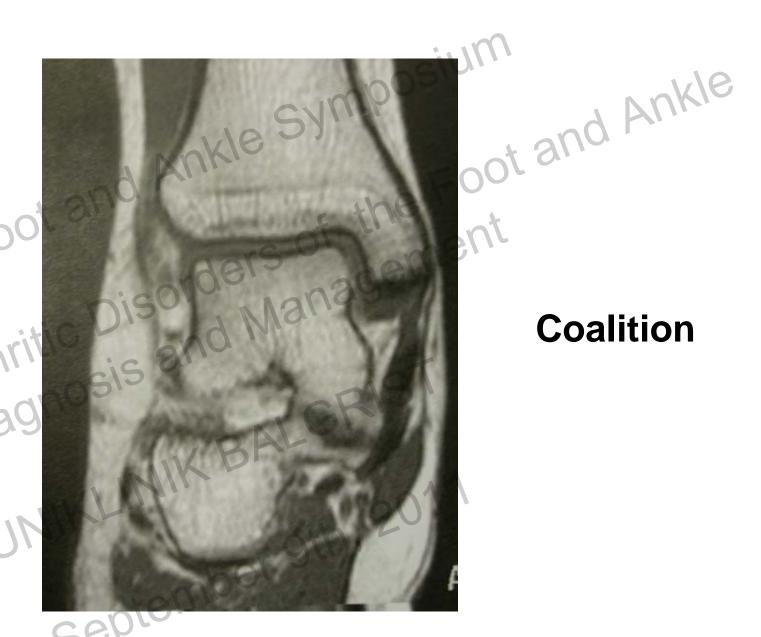






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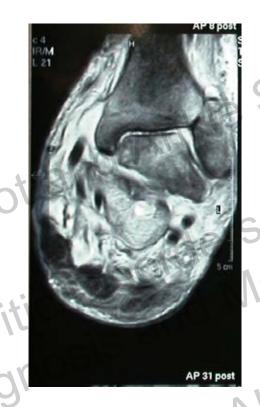


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Automatic September 9th, 2011 Automatic Balgrid University Houstal uniklinik balgrist

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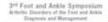




55 year old male DM, subtalar dislocation varus deformity

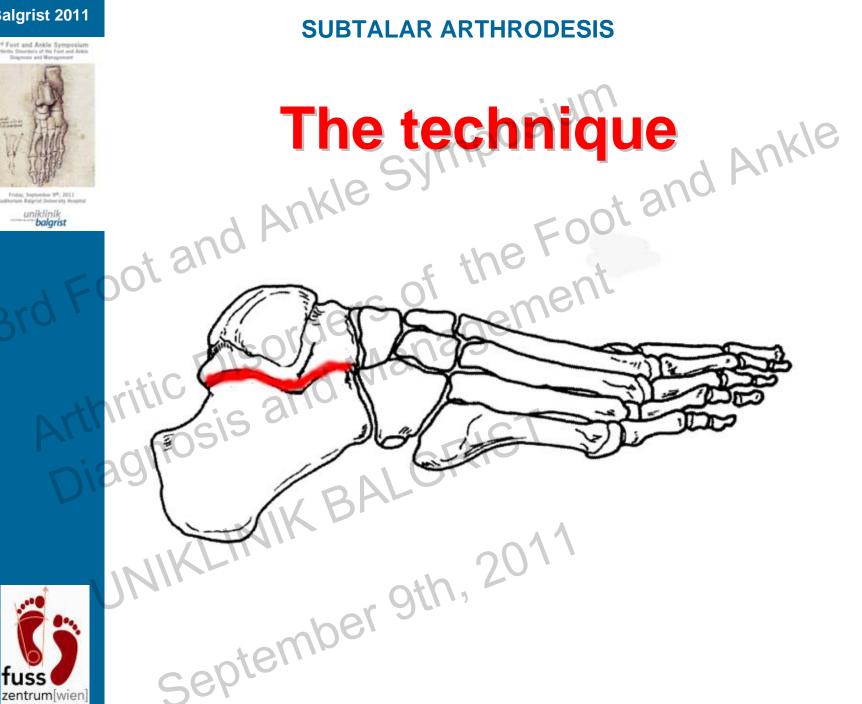




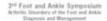




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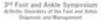




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SUBTALAR ARTHRODESIS

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Incision



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Overlying the sinus tarsi

form the tip of the fibula

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Calcaneocuboid-joint

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Ankle



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Overlying the sinus tarsi

form the tip of the fibula

Calcaneocuboid-joint Of Cisoroenana



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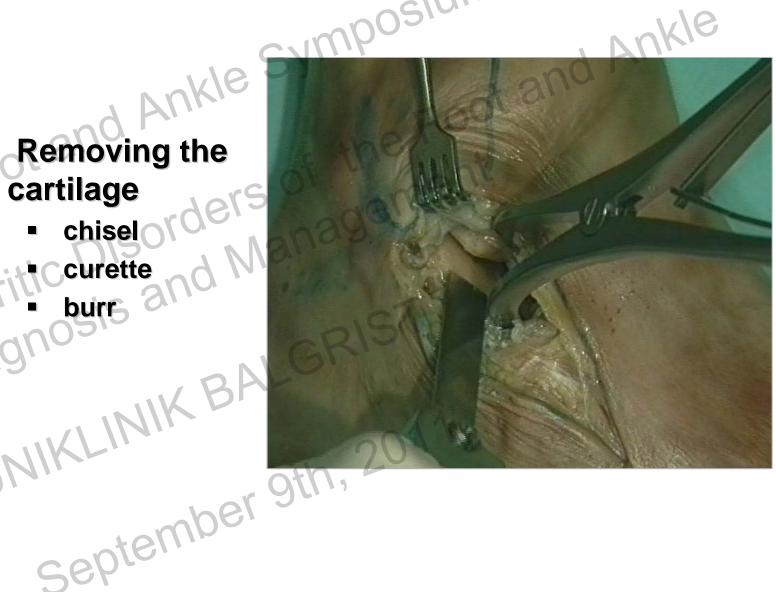
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Ankle Removing the cartilage





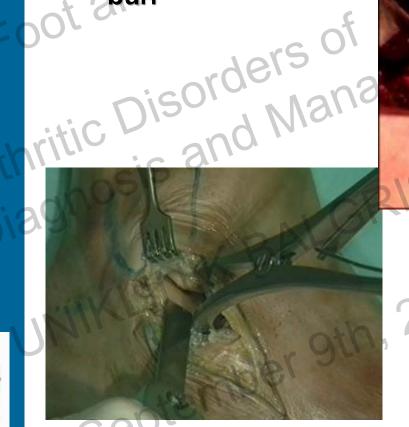


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- curette nkle Syn - burr











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Removing the cartilage > chisel curette burr



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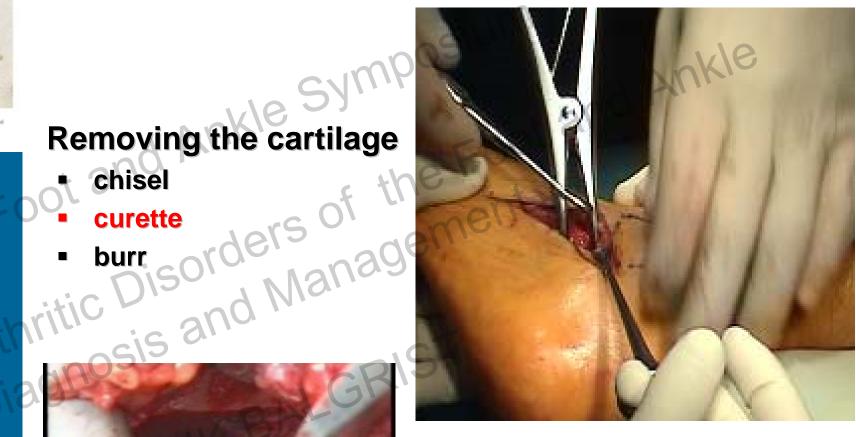


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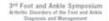
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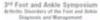
Ankle Foot and Ankle Disorders of the Foot and Ankle Sato 7 degree valgus

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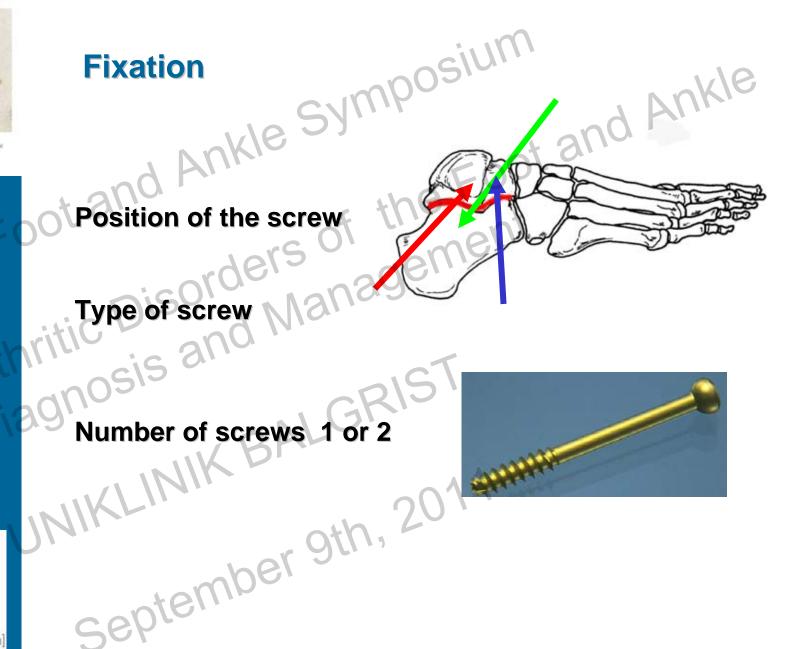






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Gosch C.,et al J Foot Ankle Surg 2006 Comparison of initial compression force

- 2 fixation methods
- plantar vertical screw
 posterior obliquely screw
 posterior obliquely 581 N
 plantar vertical 604 N
 difference not significant
 plantar vertical screw is an alternative



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McGlamry, Robitaille, et al J Foot Ankle Surg 2004 Comparison of pullout force

- 2 fixation methods
 - dorsal to plantar (threads are in the calcaneus)
 - plantar to dorsal (threads are in the talus)

dorsal to plantar significantly higher pullout forces (p = 0,000085) 20 9th, 20









SUBTALAR ARTHRODESIS

DeCarbo, Berlet, et al. Foot Ankle Spec 2010 Aug 3(4) Single-screw fixation for subtalar joint fusion does not increase nonunion rate

113 patients

- 89 single screw fixations
- 24 double screw fixations
 Mean FU 11 months

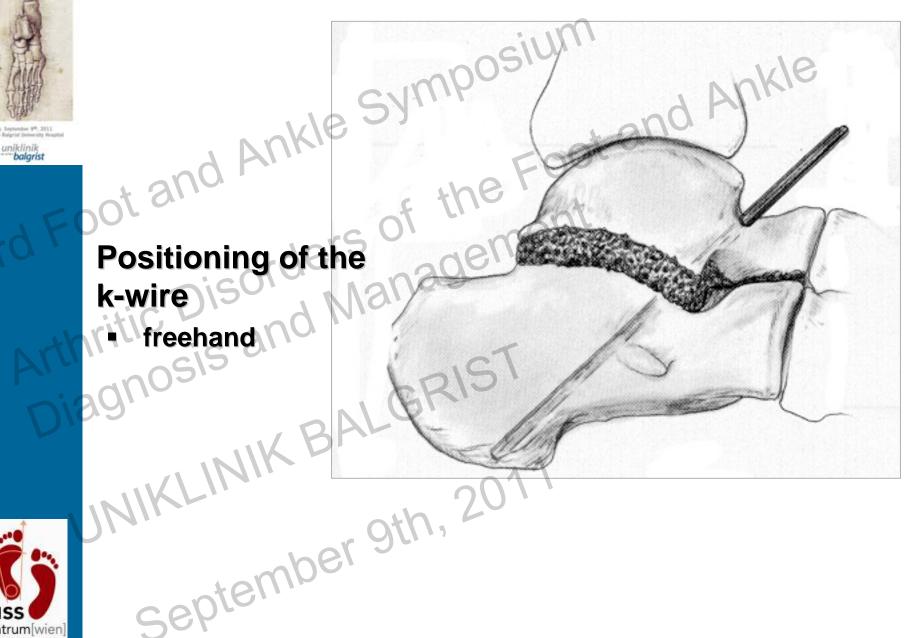


14,6%non union after single screw fixation25%non union after double screw fixation

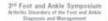


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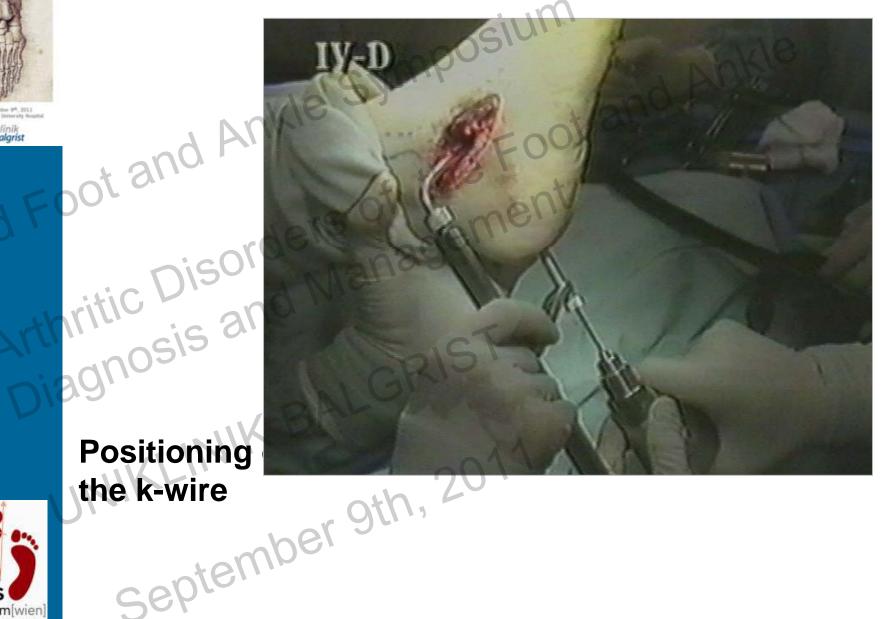




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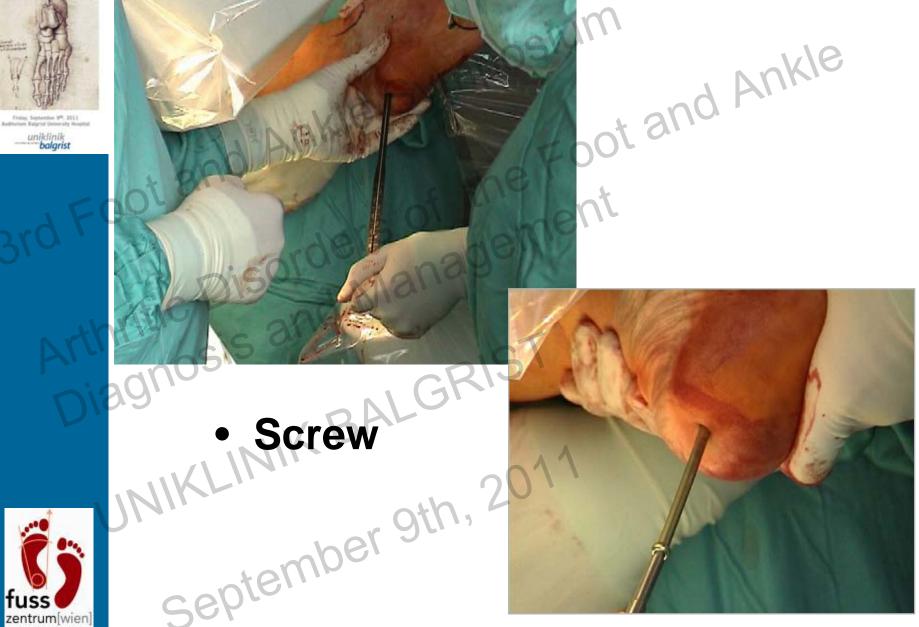


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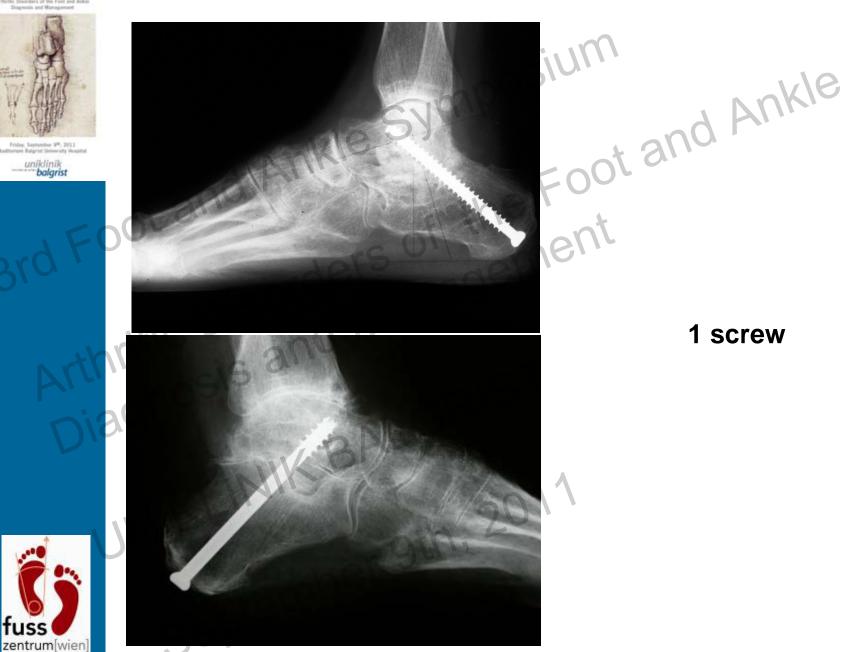
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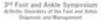




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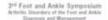


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Ankle Symposium Nonunions of the Foot of Nection Lateral impingement Valalignement vral pr Sural neuralgia IKLINI September 9th, 2011









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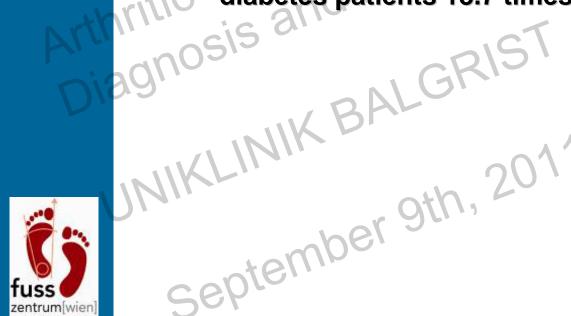




Chahal J., Stephen DJ., et al J. Orthop. Trauma 2006

88 patients subtalar fusions smokers 3.8 times more likely for pseudarthrosis anabe anosis a diabetes patients 18.7 times more likely

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SUBTALAR ARTHRODESIS

Easley ME, Trnka HJ, Schon LC, Myerson MS JBJS AM. 2000

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184 isolated subtalar fusions 84 % overall union rate

- (92% nonsmokers, 73 % smokers
- 96% in primary nonsmokers

Complications:

- prominent hardware 20%
- lateral impingement 10%
- malalignment and infection 3% each
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 9th, 201







SUBTALAR ARTHRODESIS

Haskell A., Pfeiff C., Mann R. nkle Foot Ankle Int. 2004 lers of the ment

101 isolated subtalar fusions 98 % overall union rate .mue GRI UNIKLINIK BALGRI smoking did not influence union rate

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Jovianiaux, Harisboure, Ohl, Dehoux. Int Orthop. 2010 Long-term results of an insitu subtalar arthrodesis

ent

28 isolated subtalar fusions 56 months FU (20 - 115) 100 % overall union rate mild arthritic changes in adjacent joints not symptomatic IKIIN ptember 9th, 201













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