Screw fixation for athlete's fifth metatarsal stress fracture (Jones fracture)



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COI Disclosure

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There are no COI with regard to this presentation.

Introduction

Treatment of Jones fracture is difficult.

Our group studied cases of intramedullary screw fixation from 1993 to 2005 .

We found significant correlations between bone healing time and age at injury, time to surgery, and Screw Metatarsal Ratio.





Anma : 2010

Objective

To clarify the radiographic characteristics of Jones fracture. To find the factors influencing the postoperative outcome.

Materials and Methods

2006.4.1 ~2021.12.6 103 persons (male 99, female 4) ,110 feet From Medical records and Interview Age,Date of injury ,Duration of return to sports,Sports...etc

Soccer Players

Position, Dominant leg,...etc







84/110 cases followed up

Bridging callus : 6.5 w

Bone Union : 13.4w







Bridging callus





Soccer players

fracture sites position-by-position



fracture site Dominant leg vs. Non



Non dominant leg Dominant leg

fracture site center vs. side





Discussion

Poor cases

7/8 cases : Elite Soccer Players (2 professional soccer players)

The patient's athlete level and postoperative therapy can influence the postoperative outcome.

(Larson, C. M. et al, AJSM 2002)

Mochiduki. 20

The D/P ratio was significantly smaller in poor cases.

Proximal:Distal encouraged 1:1, i.e., D/P = 1

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