

## Complex Ankle Arthrodesis Using The Ilizarov Method Yields

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### Complex Ankle Arthrodesis Using The

Complex Ankle Arthrodesis Using the Ilizarov Method Yields High Rate of Fusion. Austin T. Fragomen MD, Eugene Borst BA, Lindsay Schachter BS, Stephen Lyman PhD, S. Robert Rozbruch MD. Received: 25 October 2011/Accepted: 22 June 2012 The Association of Bone and Joint Surgeons1 2012. Abstract Background Ankle arthrodesis may be achieved using the Ilizarov method.

### Complex Ankle Arthrodesis Using the Ilizarov Method Yields ...

Complex ankle arthrodesis using the ilizarov method yields high rate of fusion. Clin Orthop Relat Res. 2012;470(10):2864-2873. doi:10.1007/s11999-012-2470-9. 2. Salem KH, Kinzl L, Schmeltz A. Ankle arthrodesis using Ilizarov ring fixators: a review of 22 cases. Foot Ankle Int. 2006;27(10):764-770. doi:10.1177/107110070602701002. 3.

### Complex Ankle and Hindfoot Arthrodesis Using Circular ...

Complex ankle and hindfoot arthrodesis cases performed by the senior author (SRR) at one center from 2002–2009 using the Ilizarov / Taylor spatial frame. Criteria for “complex” fusion included a history of ankle osteomyelitis, failed prior ankle fusion attempt, failed total ankle

### Complex Ankle Arthrodesis Using the Ilizarov/TSF

Ankle arthrodesis may be achieved using the Ilizarov method. Comorbidities, such as diabetes, Charcot neuroarthropathy, osteomyelitis, leg length discrepancy, and smoking, can make an ankle fusion complex and may be associated with lower rates of healing.

### Complex Ankle Arthrodesis Using the Ilizarov Method Yields ...

The Ilizarov method of ankle and hindfoot arthrodesis is a well-established technique for limb reconstruction that uses circular external fixation to achieve solid bony fusion, optimal leg length, and eradication of infection in cases of complex pathology.

### Complex Ankle and Hindfoot Arthrodesis Using Circular ...

The Ilizarov method of ankle and hindfoot arthrodesis is a well-established technique for limb reconstruction that uses circular external fixation to achieve solid bony fusion, optimal leg length, and eradication of infection in cases of complex pathology. This article discusses indications, contraindications, pearls, and pitfalls of performing ankle and hindfoot arthrodesis using the Ilizarov technique.

### Complex Ankle and Hindfoot Arthrodesis Using Circular ...

An ankle arthrodesis achieved with three screws has greater biomechanical rigidity than one using two screws,. A method of using three screws involves two crossing screws and a third posterior-to-anterior (PA) “home run” screw..

### Ankle Arthrodesis: The Simple and the Complex - ScienceDirect

Background: The use of external ring fixation for ankle arthrodesis offers an alternative to internal screw fixation when bone quality is suboptimal, when complex ankle pathology is present, and as a salvage procedure for complicated cases. Additionally, it permits earlier weightbearing and postoperative adjustment of bone alignment and joint compression.

### External ring fixation versus screw fixation for ankle ...

Arthrodesis has traditionally been the surgical standard for the treatment of end-stage foot and ankle arthritis and to correct deformities of the foot and ankle [1,2]. However, in foot and ankle arthrodesis, nonunion is a major concern and the most common major complication that worsens functional outcome, with a nonunion rate of approximately 11% (range, 3–23%) [ 2] , [3] , [4] , [5] .

### Effects of teriparatide on fusion rates in patients ...

Specific indications for use of the Ilizarov method in complex ankle arthrodesis have been described and include (1) Type B hosts (as opposed to a Type A host who is a healthy person) ; (2) infection about or in the ankle; (3) simultaneous limb lengthening with arthrosis in patients younger than 70 years with a limb length discrepancy greater than 2.5 cm; (4) deformity of the ankle contraindicating internal fixation; and (5) osteopenia or poor skin quality suggesting a high risk for a poor ...

### Recombinant Human BMP-2 Increases the Incidence and Rate ...

BACKGROUND: Tibiotalocalcaneal arthrodesis is used to manage end stage arthritis, often associated with severe bone loss. The goal is to relieve pain through a stable, well-aligned hindfoot and ankle. We describe our initial results and outcome of ankle and tibiotalocalcaneal arthrodesis using a 90° blade plate.

### The use of the 4.5 mm 90° titanium cannulated LC-angled ...

CONCLUSIONS: The use of the Ilizarov frame provides a successful salvage method that offers solid bony fusion, optimal leg length, and eradication of infection in complex ankle pathology or failed previous arthrodesis.

### Ankle arthrodesis using Ilizarov ring fixators: a review ...

technique revolutionized the treatment of complex ankle and foot problems.24 The purpose of this study was to review our results of tibiotalar arthrodesis using the Ilizarov apparatus. MATERIALS AND METHODS Twenty-two ankle (tibiotalar) arthrodeses done between April, 1992, and August, 2004, at our institution using

### Ankle Arthrodesis Using Ilizarov Ring Fixators: A Review ...

CONCLUSIONS: Our findings suggest that rhBMP-2 is a beneficial adjunct for selected groups of patients undergoing complex ankle arthrodesis. CT is a promising modality in the assessment of bone healing in ankle fusion. A proper randomized controlled trial remains necessary to fully describe the efficacy of rhBMP-2 in accelerating bone healing.

### Recombinant human BMP-2 increases the incidence and rate ...

During the period in question, indications for hindfoot arthrodesis using posterior blade fixation were subtalar osteoarthritis below an ankle fusion, malunion or nonunion, failed tibiotalocalcaneal arthrodesis attributable to nonunion of the tibiotalar and/or subtalar joint; or tibiotalar and subtalar osteoarthritis in patients with impaired ...