



Total Ankle Replacement for Osteoarthritis Following Pilon Fracture of the Tibia

SCIENCE

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Key Take-Away:

Several patients with intra-articular fracture subsequently undergo significant functional shortfalls, stiffness and pain due to osteoarthritis. This study highlights the role of total ankle replacement concerning such disorders using Foot and Ankle Outcome Score (FAOS), self-reported body mass index (BMI), patient satisfaction scores, comorbidities, and SF-36. Thus similar outcomes were found for the patients who underwent TAR after pilon fracture compared to other indications.

Introduction

Total ankle replacement (TAR) used to treat osteoarthritis following pilon fracture is not well understood. This study was aimed to compare the outcomes among various indications for TAR.

Methods

The Patient-reported outcome measures (PROMs) for TAR conducted between 2006 and 2014 were analyzed. The analysis involved the assessment of self-reported body mass index (BMI), Foot and Ankle Outcome Score (FAOS), patient satisfaction scores, comorbidities and SF-36. Data collection was done before and at one and two years after the operation. The indication for TAR was highlighted using the radiographs and clinical notes. Further, subgroups (posttraumatic arthritis without previous fracture (PTOA), rheumatoid arthritis (RA), ankle fracture (AF), osteoarthritis (OA), and pilon fracture (PF)) were created. A total of 173 TARs were showed PROMs. The youngest and highest BMI was noted in the pilon fracture group. No variation was observed in the whole reported comorbidities.

Results

All subgroups exhibited considerable improvement in FAOS scores from the baseline to follow-up of the first year. All subgroups with improvement in all parameters by two years showed similar outcomes for SF-36. The physical and emotional domains also exhibited significant improvement by one year following TAR. All groups presented similar satisfaction scores. No major variation was noticed in any of the described outcomes between subgroups by 2 years follow-up.

Conclusion

The study observed similar results for patients who went through TAR following pilon fracture compared to other indications.

Source:	Foot Ankle Int
Link to the source:	https://www.ncbi.nlm.nih.gov/pubmed/30110559



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