
Literature Review

Article Title: Long-Term Results of Hemiarthroplasty Compared With Arthrodesis for Osteoarthritis of the First Metatarsophalangeal Joint

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Source: The Journal of Foot and Ankle Surgery, Volume 57, Issue 3, 445 – 450 (2018)

DOI: <https://doi.org/10.1053/j.jfas.2017.10.013>

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Article Summary

A total of 47 MTP joint arthrodesis procedures and 31 hemiarthroplasty procedures performed between 2005 and 2011 with an average follow-up of 8.3 years (5 years to 11.8 years) were reviewed and reported on.

Article Highlights

- Hemiarthroplasty patients received AOFAS-HMI scores of 89.7 ± 6.6 while arthrodesis patients received scores of 72.8 ± 14.5 .
- Patients that underwent hemiarthroplasty were considerably more pleased with and recommended the procedure more often than those who underwent arthrodesis.
- Hemiarthroplasty allowed patients to return to sports on average 5 weeks faster than arthrodesis (6.7 weeks compared to 11.7 weeks).
- Hemiarthroplasty affected significantly less patients (17.6%) compared to arthrodesis (71.4%) active in sports, with the patients either stopping, limiting or switching their activity.
- Patients that underwent hemiarthroplasty reported less pain (22% of arthrodesis procedures resulted in moderate or severe pain postoperatively compared with 0% for hemiarthroplasty).
- 93.5% of hemiarthroplasty patients restored range of motion (>30 degrees).
- The overall total cost for both procedures were similar.
- 11.1% of hemiarthroplasty patients underwent repeat surgery compared to 74.4% of arthrodesis patients.

This is an overview of "Long-Term Results of Hemiarthroplasty Compared With Arthrodesis for Osteoarthritis of the First Metatarsophalangeal Joint". A complete review of the study is recommended.