

Treating **Hallux Rigidus** with Hemi Implants



DETAILS THAT MATTER.

Reported clinical use since 1952¹ with over a dozen studies reporting on average 95%+ implant survivorship[†]. The BioPro First MPJ Hemi has clinical data on patients 20+ years post-op.¹



Maintains natural anatomy

Minimal resection maintains length and soft tissue attachments. Revision from phalangeal based hemi implants results in similar success to primary arthrodesis with no loss of length evident.²



Patient Preferred

Studies report higher satisfaction than fusion due to faster return to activity and additional footwear choices.² Recommended in young, low to moderate demand patients (age 50+ years) with grade II/III hallux rigidus.

Literature Review

Source	Year	N	Satisfaction	Survivorship	ROM Improvement
Beekhuizen, Stefan R. et al. Long-Term Results of Hemiarthroplasty Compared With Arthrodesis for Osteoarthritis of the First Metatarsophalangeal Joint. <i>The Journal of Foot and Ankle Surgery</i> , Volume 57, Issue 3, 445 - 450	2018	31 procedures	97%	96.3%	>10°
Clement, N. D., MacDonald, D., Dall, G. F., Ahmed, I., Duckworth, A. D., Shalaby, H. S., & McKinley, J. (2016). Metallic hemiarthroplasty for the treatment of end-stage hallux rigidus. <i>Bone Joint J</i> , 98-B(7), 945-951.	2016	97 procedures	75%	85.6%	N/A
Karin H. Simons, MD, Pieter van der Woude, MD, Frank W.M. Faber, MD, PhD, Paulien M. van Kampen, PhD, Bregje J.W. Thomassen, PhD. Short-Term Clinical Outcome of Hemiarthroplasty Versus Arthrodesis for End-Stage Hallux Rigidus. <i>The Journal of Foot & Ankle Surgery</i> (2015) 1-4	2015	46 patients	81.6%	95.9%	N/A
Giza, E., Sullivan, M., Ocel, D., Lundeen, G., Mitchell, M., & Frizzell, L. (2010). First metatarsophalangeal hemiarthroplasty for hallux rigidus. <i>International Orthopaedics</i> , 34(8), 1193-1198. http://doi.org/10.1007/s00264-010-1012-x	2010	22 procedures	N/A	90.9%	15°
Christine C. Salonga, DPM, David C. Novicki, DPM, FACFAS, Martin M. Pressman, DPM, FACFAS, D. Scot Malay, DPM, MSCE, FACFAS. A Retrospective Cohort Study of the BioPro Hemiarthroplasty Prosthesis. <i>The Journal of Foot & Ankle Surgery</i> 49 (2010) 331-339	2010	79 procedures	86.08%	98.7%	27°
Charles G. Kissel, DPM, FACFAS, Zeeshan S. Husain, DPM AACFAS, Paul H. Wooley, PhD, Michael Kruger, MS, Mark A. Schumaker, DPM, Michael Sullivan, DPM, and Todd Snoeyink, DPM. A Prospective Investigation of the Biopro® Hemi-Arthroplasty for the First Metatarsophalangeal Joint. <i>The Journal of Foot & Ankle Surgery</i> 47(6):505-509, 2008	2008	23 patients	N/A	100%	47°
Taranow, DO. et al. Contemporary Approaches to Stage II and III Hallux Rigidus: The Role of Metallic Hemiarthroplasty of the Proximal Phalanx. <i>Foot and Ankle Clinics</i> , Volume 10, Issue 4, 713 - 728	2005	28 patients	N/A	100%	N/A
Roukis TS, Townley, MD. BIOPRO resurfacing endoprosthesis versus periarticular osteotomy for hallux rigidus: short-term follow-up and analysis. <i>Journal of Foot & Ankle Surgery</i> 2003;42(6):350-8	2003	9 procedures	N/A	100%	7°
Vanore, J.V.: Use of the Biopro First MTP Joint Implant. In <i>Update 2002: Proceedings of the Annual Meeting of the Podiatry Institute</i> , Chapter 26, pp 142-148, The Podiatry Institute Inc., Tucker, GA 2002.	2002	10 procedures	N/A	100%	N/A
Juan C. Goez, DPM, Charles O. Townley MD, Warren Taranow, DO. An Update on the Metallic Hemiarthroplasty Resurfacing Prosthesis for the Hallux. Presented at the 56th Annual Meeting and Scientific Seminar of the American College of Foot and Ankle Surgeons. Orlando FL February 1998	1998	468 procedures	N/A	97.2%	N/A
Townley, MD, Taranow, DO. A metallic hemiarthroplasty resurfacing prosthesis for the hallux metatarsophalangeal joint. <i>Foot & Ankle International</i> 1994;15(11):575-80	1994	279 procedures	95.3%	95.3%	N/A

Learn more at www.bioproimplants.com

References

1. Beekhuizen, Stefan R. et al. Long-Term Results of Hemiarthroplasty Compared With Arthrodesis for Osteoarthritis of the First Metatarsophalangeal Joint. *The Journal of Foot and Ankle Surgery*, Volume 57, Issue 3, 445 - 450
2. Townley, MD, Taranow, DO. A metallic hemiarthroplasty resurfacing prosthesis for the hallux metatarsophalangeal joint. *Foot & Ankle International* 1994;15(11):575-80



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