

## Accepted Manuscript

Title: Geometric Analysis of the Talus and Development of a Generic Talar Prosthetic

Authors: <ce:author id="aut0005"  
author-id="S1268773116304787-  
15d7b81aa5ed4f363cd0b23516f50995"> Alexandra Trovato  
MEng, PhD, PEng<ce:author id="aut0010"  
author-id="S1268773116304787-  
81013cc5985f4bb08e3850f313176e61"> Marwan El-Rich  
MSc, PhD<ce:author id="aut0015"  
author-id="S1268773116304787-  
2d9503a26b9122d49c881987e023aa24"> Samer Adeeb  
PhD<ce:author id="aut0020"  
author-id="S1268773116304787-  
5207b6789e3ebe050378654e2a21d808"> Suki Dhillon MB,  
ChB, MRCP, FRCR<ce:author id="aut0025"  
author-id="S1268773116304787-  
4a77f3aac095532d3e82c93477f7301d"> Nadr Jomha BMSc,  
MD, MSc, PhD



PII: S1268-7731(16)30478-7  
DOI: <http://dx.doi.org/doi:10.1016/j.fas.2016.12.002>  
Reference: FAS 989

To appear in: *Foot and Ankle Surgery*

Received date: 9-5-2016  
Revised date: 5-10-2016  
Accepted date: 6-12-2016

Please cite this article as: Trovato Alexandra, El-Rich Marwan, Adeeb Samer, Dhillon Suki, Jomha Nadr. Geometric Analysis of the Talus and Development of a Generic Talar Prosthetic. *Foot and Ankle Surgery* <http://dx.doi.org/10.1016/j.fas.2016.12.002>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Geometric Analysis of the Talus and Development of a Generic Talar Prosthetic**

Alexandra Trovato<sup>1</sup>, MEng, PhD, PEng – atrovato@ualberta.ca

Marwan El-Rich<sup>1</sup>, MSc, PhD – elrich@ualberta.ca

Samer Adeeb<sup>1</sup>, PhD – adeeb@ualberta.ca

Suki Dhillon<sup>2</sup>, MB, ChB, MRCP, FRCR – sdhillon@ualberta.ca

Nadr Jomha<sup>3</sup>, BMSc, MD, MSc, PhD, FRCS(C) – njomha@ualberta.ca

1-Department of Civil and Environmental Engineering, University of Alberta, Edmonton,  
Alberta

2-Department of Radiology and Diagnostic Imaging, University of Alberta, Edmonton, Alberta

3-Department of Surgery, University of Alberta, Edmonton, Alberta

**Running Title:**

Geometric Analysis of the Talus

**Highlights**

- We determined the geometric variation between tali after tali were scaled to the same volume
- Deviations between tali were on average less than 1mm indicating that tali are the same shape among humans
- No unique talar shape groups exist
- A unisex talar implant was created in ten sizes

Download English Version:

<https://daneshyari.com/en/article/5707433>

Download Persian Version:

<https://daneshyari.com/article/5707433>

[Daneshyari.com](https://daneshyari.com)