

## Accepted Manuscript

Title: Staged Reconstruction of Diaphyseal Fractures with Segmental Defects: Surgical and Patient-Reported Outcomes

Authors: S.D. Zoller, L.A. Cao, R.A. Smith, W. Sheppard, E.L. Lord, C.D. Hamad, J.H. Ghodasra, C. Lee, D. Jeffcoat



PII: S0020-1383(17)30411-4  
DOI: <http://dx.doi.org/doi:10.1016/j.injury.2017.06.018>  
Reference: JINJ 7283

To appear in: *Injury, Int. J. Care Injured*

Accepted date: 20-6-2017

Please cite this article as: Zoller SD, Cao LA, Smith RA, Sheppard W, Lord EL, Hamad CD, Ghodasra JH, Lee C, Jeffcoat D. Staged Reconstruction of Diaphyseal Fractures with Segmental Defects: Surgical and Patient-Reported Outcomes. *Injury* <http://dx.doi.org/10.1016/j.injury.2017.06.018>

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**Staged Reconstruction of Diaphyseal Fractures with Segmental Defects:****Surgical and Patient-Reported Outcomes**

Zoller, S.D., M.D.,<sup>1</sup> Cao, L.A., M.D.,<sup>2</sup> Smith R.A., B.S.,<sup>1</sup> Sheppard W., B.S.,<sup>1</sup> Lord E.L., M.D.,<sup>1</sup> Hamad C.D., B.S.,<sup>1</sup> Ghodasra, J.H., M.D.,<sup>1</sup> Lee C, M.D.,<sup>1</sup> Jeffcoat D., M.D.<sup>1</sup>

<sup>1</sup> Department of Orthopaedic Surgery, University of California, Los Angeles (UCLA)

1250 16<sup>th</sup> St Suite 2100, Santa Monica CA 90404

<sup>2</sup> Department of Orthopaedic Surgery, University of Southern California (USC)

1975 Zonal Ave, Los Angeles, CA 90033

Corresponding Author:

Devon Jeffcoat, M.D.

Department of Orthopaedic Surgery

University of California, Los Angeles

1250 16<sup>th</sup> St, Suite 2100, Santa Monica, CA 90404

Phone: +1 (310)-825-6557

Fax: 310 825-1311

Email: [djeffcoat@mednet.ucla.edu](mailto:djeffcoat@mednet.ucla.edu)

Devon Jeffcoat, M.D. currently receives research support from DePuy Synthes. Each remaining author certifies that he or she has no commercial associations (eg, consultancies, stock ownership, equity interest, patent/licensing arrangements, etc) that might pose a conflict of interest in connection with the submitted article.

This study was approved by the Institutional Review Board of the University of California, Los Angeles and all work was performed in accordance with regulations. The approval notice is attached to this manuscript.

Keywords: Masquelet; Trauma; Orthopedic Surgery; Staged Reconstruction; Segmented Defects; Diaphyseal Fractures; Orthopedics; Surgery

**Abstract**

**Introduction:** Two-stage limb reconstruction is an option for patients with critical size segmental bone defects following acute trauma or non-union. Reconstruction is technically demanding and associated with a high complication rate. Current protocols for limb reconstruction have well-documented challenges, and no study has reported on patient outcomes using a validated questionnaire. In this study, we aimed to examine the clinical and patient-centered outcomes following our surgical protocol for two-stage limb reconstruction following critical size segmental defects.

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