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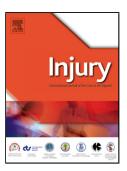
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## ACCEPTED MANUSCRIPT

#### Staged Reconstruction of Diaphyseal Fractures with Segmental Defects:

#### **Surgical and Patient-Reported Outcomes**

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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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