

Soft Tissue Reconstruction of Complete Circumferential Defects of the Upper Extremity

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Original Article

Background Upper extremity soft tissue defects with complete circumferential involvement are not common. Coupled with the unique anatomy of the upper extremity, the underlying etiology of such circumferential soft tissue defects represent additional reconstructive challenges that require treatment to be tailored to both the patient and the wound. The aim of this study is to review the various options for soft tissue reconstruction of complete circumferential defects in the upper extremity.

Methods A literature review of PubMed and MEDLINE up to December 2016 was performed. The current study focuses on forearm and arm defects from the level at or proximal to the wrist and were assessed based on Tajima's classification (J Trauma 1974). Data reviewed for analysis included patient demographics, causality, defect size, reconstructive technique(s) employed, and postoperative follow-up and functional outcomes (when available).

Results In accordance with the Preferred Reporting Items for Systematic Reviews and Meta-Analyses guidelines, 14 unique articles were identified for a total of 50 patients (mean = 28.1 years). Underlying etiologies varied from extensive thermal or electrical burns to high impact trauma leading to degloving or avulsion, crush injuries, or even occur iatrogenically after tumor extirpation or extensive debridement. Treatment options ranged from the application of negative pressure wound dressings to the opposite end of the spectrum in hand transplantation.

Conclusions With the evolution of reconstructive techniques over time, the extent of functional and aesthetic rehabilitation of these complex upper extremity injuries has also improved. The proposed management algorithm comprehensively addresses the inherent challenges associated with these complex cases.

Keywords Upper extremity / Reconstructive surgical procedures / Soft tissue injuries

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INTRODUCTION

The upper extremity is functionally and anatomically complex. Its role in our daily interactions with the external environment

translates to an increased susceptibility to various forms of trauma including burns (thermal, electrical), degloving or avulsion and crush injuries of the skin envelope. Occasionally, the resultant soft tissue defect may involve complete circumferential de-

Soft Tissue Reconstruction In The Upper Extremity

Shasha Hu

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Soft Tissue Reconstruction In The Upper Extremity:

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