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Retrospective Study

Use of Ligament Advanced Reinforcement System tube in stabilization of proximal humeral endoprotheses

Nikolaos A Stavropoulos, Hassan Sawan, Firas Dandachli, Robert E Turcotte

Abstract

AIM: To review outcomes following usage of the Ligament Advanced Reinforcement System (LARS®) in shoulder tumors.

METHODS: Medical records of nineteen patients (19 shoulders) that underwent tumor excisional procedure and reconstruction with the LARS synthetic fabric, were retrospectively reviewed.

RESULTS: Patient's median age was 58 years old, while the median length of resection was 110mm (range 60-210mm). Compared to immediate post-operative radiographs, the prosthesis mean end-point position migrated superiorly at a mean follow up period of 26 months ($p=0.006$). No statistical significant correlations between the prosthesis head size ($p=0.87$); the implant stem body length ($p=0.949$); and the length of resection ($p=0.125$) with the position of the head, were found at last follow-up. Two cases of radiological dislocation were noted but only one was

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procedure, while seven with tumours arising from the proximal humerus were treated with