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The Effect of Prophylactic Vertebroplasty on the Incidence of Proximal Junctional Kyphosis and Proximal Junctional Failure Following Posterior Spinal Fusion in Adult Spinal Deformity: A 5 Year Follow up Study

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ABSTRACT

Background Context: The incidence of proximal junctional kyphosis (PJK) ranges from 5-46% following adult spinal deformity (ASD) surgery. Approximately 66-76% of PJK occurs within 3 months of surgery. A subset of these patients, reportedly 26-47%, develop proximal junctional failure (PJF) within 6 months postoperatively. To date, there are no studies evaluating the impact of prophylactic vertebroplasty on PJK/PJF incidence at long term follow-up.

Purpose: The purpose of this study is to evaluate the long term radiographic and clinical outcomes, and incidence of PJK and PJF, after prophylactic vertebroplasty for long segment thoracolumbar posterior spinal fusion.

Study Design. Prospective cohort study.

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