



Improving Safety and Outcomes in Complex Spine Surgery: Advancements in Complication Prediction, Surgical Optimization, and Techniques

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Message from the Guest Editor

Complex spine surgery such as involving deformity or tumors has a high complication rate. Although the benefits of surgery have been proven, improving safety remains a primary objective in our field. Advancements in predictive analytics have allowed for preoperative risk stratification, patient counseling, and potential modification of surgical plans. The presence of two specialist surgeons in the operating room, the use of multidisciplinary approaches, minimally-invasive techniques, and other methods have also been shown to potentially decrease complications and improve outcomes in complex spinal disorders. Lastly, advancements such as intraoperative navigation or robotic spine surgery have allowed for improved accuracy and prompt identification or treatment of implant-related adverse events.





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