

Special Issue

New Challenges and Perspectives in Surgical Treatment of Spinal Deformity

Message from the Guest Editor

Adult spinal deformity (ASD) surgery has advanced considerably, yet mechanical complications—proximal junctional kyphosis/failure (PJK/PJF), rod fracture, implant loosening, and decompensation—remain major obstacles to durable outcomes. This Special Issue will highlight novel strategies to prevent and manage these failures. We particularly welcome studies on innovative alignment parameters such as fused spinopelvic angle, lordosis distribution index, and apex alignment, which refine conventional spinopelvic targets. Surgical technique-based approaches, including lateral lumbar interbody fusion with posterior column osteotomy and three-column osteotomies, will be emphasized in relation to long-term stability. Construct optimization using flexible rods, accessory rods, tethers, or transition techniques is another focus. Advances in navigation, robotics, patient-specific planning, and AI-driven risk prediction are opening new perspectives for precision and complication reduction. By integrating novel alignment concepts, refined surgical strategies, and technological innovation, this issue aims to provide practical guidance for minimizing mechanical complications in ASD surgery.

Guest Editor

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