



Advances in Paediatric Spine Surgery

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Message from the Guest Editors

Dear Colleagues,

The constantly evolving field of pediatric spine surgery has seen tremendous advancements in recent years.

Modern technologies, including vertebral body tethering (VBT), patient-specific rods, self-growing rods, minimally invasive, robot-assisted, and surgical navigation, are active areas of investigation. Similarly, enhanced recovery after surgery (ERAS) protocols as well as newer strategies for peri-operative analgesia are promising tools to hasten recovery after surgery.

The aim of this Special Issue is to bring together prominent scholars in the field of pediatric spine surgery and present the most advanced research in the field. This Special Issue will focus on all aspects of pediatric spine surgery, including scoliosis, hyperkyphosis, congenital deformities, spondylolisthesis, with a special interest in new technologies, new surgical techniques, and peri-operative management protocols.

Keywords

- scoliosis
- adolescent idiopathic scoliosis
- neuromuscular scoliosis
- children
- enhanced recovery after surgery
- vertebral body tethering
- 3D
- kyphosis
- sagittal
- spondylolisthesis



- patient-specific rods
- spondylodiscitis