Neuromuscular Spine Deformity

The most comprehensive book on spinal deformities to date, detailing the latest surgical techniques for a wide range of common to rare neuromuscular pathologies, in 27 well-illustrated chapters.

The comprehensive content derives from the authors’ collective years of hands-on expertise, evidence-based knowledge from the literature, and multicenter scoliosis studies performed by the prestigious Harms Study Group, a worldwide research-based association of spine surgeons. The text begins with discussion of preoperative evaluation, nonoperative management, and surgical considerations such as anesthesia, neuromonitoring, and estimated blood loss. Section two highlights pathology-specific surgical interventions, while sections three and four provide clinical pearls on a wide array of surgical techniques, complications, and patient outcomes.

Key highlights:
- Disease-related challenges including dislocated hips, hyperlordotic/hyperkyphotic spine in cerebral palsy, myelomeningocele-related myelodysplasia and spine deformity, Duchenne’s muscular dystrophy, and spinal muscular atrophy
- Guidance on assessing the sagittal profile preoperatively and executing it intraoperatively in patients with spinal cord injury
- Multiple options for fixation including the new sacral alar iliac screw approach for sacropelvic fixation and correction of pelvic obliquity
- Postoperative issues including ICU management, incidence and management of early and late wound infection, instrumentation failure, junctional kyphosis, and cervical extension
- Health-related quality of life outcomes in pediatric patients with cerebral palsy who have undergone scoliosis surgery

This state-of-the-art resource is essential reading for orthopaedic surgeons, neurosurgeons, and trainees in these specialties. It is also a must-have reference for academic programs and institutional departments specializing in pediatric spine pathologies.

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