

Contents

Part I Growth

- 1 Normal and Abnormal Growth of Spine** 3
Ilkka J. Helenius

Part II Evaluation

- 2 Clinical Evaluation.....** 17
Dror Ovadia
- 3 Radiologic Evaluation of Non-Idiopathic Early Onset Spine Deformities.....** 25
Jorge Mineiro

Part III Deformities

- 4 Congenital Deformities of the Spine.....** 45
Athanasios I. Tsirikos
- 5 Neuromuscular Spine Deformities** 73
Carol-Claudius Hasler
- 6 Cerebral Palsy** 77
Freeman Miller
- 7 Duchenne's Muscular Dystrophy and Spinal Muscular Atrophy** 87
Dietrich Schlenzka
- 8 Other Neuromuscular Disorders with Scoliosis** 97
Carol-Claudius Hasler

Part IV Management

- 9 Delaying Tactics: Traction, Casting, and Bracing.....** 109
Charles E. Johnston II

10	Indications for Non-fusion Operative Techniques in Non-Idiopathic Scoliosis.....	121
	Charles E. Johnston II	
11	Growth Modulation Techniques for Non-Idiopathic Early Onset Scoliosis	133
	Eric J. Wall and Donita I. Bylski-Austrow	
12	Instrumentation in the Childhood Spinal Deformities: Challenges, Problems, Limitations, and Solutions.....	145
	Muharrem Yazici and Z. Deniz Olgun	
13	Fusionless Instrumentation for Non-Idiopathic Spine Deformities of Young Children: The Growing Rod Technique	157
	Muharrem Yazici and Z. Deniz Olgun	
14	VEPTR Instrumentation in Early Onset Scoliosis.....	167
	Fritz Hefti, Arne Mehrkens, and Carol-Claudius Hasler	
	Index.....	173