

# Contents

Preface	vii
Foreword	ix
About the Editors	xi
Contributors	xiii
1 Primary prevention of scoliosis—where are we? <i>Nan Wu, Terry Jianguo Zhang, Guilin Chen, and Sen Zhao</i>	1
2 Status of screening programs and epidemiology <i>Kenny Kwan</i>	11
3 Novel tools for screening <i>Michael K.T. To, Yunli Fan, and Jason Pui Yin Cheung</i>	19
4 Long-term course of adolescent idiopathic scoliosis: a nonsurgical case <i>Kei Watanabe and Masayuki Ohashi</i>	29
5 Role of preoperative magnetic resonance imaging and computerized tomography scan for patients with adolescent idiopathic scoliosis <i>Chee-Kidd Chiu, Chris Chan Yin Wei, and Mun Keong Kwan</i>	39
6 Radiation hazards in adolescent idiopathic scoliosis management <i>Lau Leok Lim</i>	63
7 Standardization of skeletal maturity assessment <i>Prudence Wing Hang Cheung, Keith D.K. Luk, and Jason Pui Yin Cheung</i>	75
8 Physiotherapeutic scoliosis-specific exercise <i>Yunli Fan, Michael K.T. To, Eric Hiu Kwong Yeung, and Jason Pui Yin Cheung</i>	97
9 What are the factors predicting favorable bracing outcomes? <i>Prudence Wing Hang Cheung, Keith D.K. Luk, and Jason Pui Yin Cheung</i>	107
10 Current state of using soft braces <i>Pak-Yiu Liu, Hoi-Yan Cheung, and Joanne Yip</i>	123
11 Preoperative assessment of curve flexibility <i>Chris Chan Yin Wei, Chee-Kidd Chiu, and Mun Keong Kwan</i>	141
12 Choosing the lowest instrumented vertebra in adolescent idiopathic scoliosis <i>Dong-Gune Chang, Hong Jin Kim, and Kee-Yong Ha</i>	163
13 Proximal thoracic curve in adolescent idiopathic scoliosis <i>Yong Qiu and Jun Jiang</i>	177
14 Shoulder balance in adolescent idiopathic scoliosis <i>Mun Keong Kwan, Chee-Kidd Chiu, and Chris Chan Yin Wei</i>	193
15 Sagittal alignment considerations in adolescent idiopathic scoliosis surgery <i>Yu Yamato, Go Yoshida, Tomohiro Banno, Shin Oe, Hideyuki Arima, and Yuki Mihara</i>	221
16 Instrumentation strategies—hooks, wires, screws, and where should they be placed <i>Saumyajit Basu, Tarun Suri, and Somashekar D.</i>	233

17	Corrective maneuvers—techniques and when do I use each option <i>Yong Hai, Aixing Pan, and Yangpu Zhang</i>	253
18	The role of anterior surgery in adolescent idiopathic scoliosis <i>Lau Leok Lim and Hee-Kit Wong</i>	263
19	Vertebral body tethering <i>Kenneth Man-Chee Cheung and Sandra Wan Hiu-Tung</i>	277
20	Novel instrumentation strategies in adolescent idiopathic scoliosis <i>Dong-Gune Chang, Lawrence G. Lenke, Se-Il Suk, Hong Jin Kim, Jae Hyuk Yang, and Seung Woo Suh</i>	287
21	Quality of life outcome scores <i>Masayuki Ohashi</i>	305
	<a href="#">Index</a>	325