

Contents

SECTION 1 Cervical

1. **Occipital Fusion** 3
Brett D Rosenthal, James D Kang
2. **Posterior Cervical C1–2 Fusion** 8
Barrett S Boody, Glenn S Russo, Rick C Sasso
3. **Posterior Cervical Decompression and Fusion** 12
Glenn S Russo, Barrett S Boody, Peter G Whang
4. **Posterior Cervical Foraminotomy** 17
Yoshihiro Katsuura, Han Jo Kim
5. **Posterior Cervical Laminoplasty**..... 21
John G Heller, R Matthew Wham
6. **Anterior Cervical Discectomy and Fusion**..... 28
Anthony Viola III, Vadim Goz, Alan S Hilibrand
7. **Anterior Cervical Corpectomy and Fusion** 35
David Casper, Jacob Hoffmann, Tom Mroz, Jason Savage
8. **Anterior Cervical Discectomy and Disk Arthroplasty** 39
Bruce V Darden
9. **Pearls of Upper Cervical Spine Trauma Management**..... 42
Daniel Leas, Barrett S Boody, Rick C Sasso
10. **Technical Pearls in the Management of Subaxial Cervical Trauma**..... 55
Edward M DeSole, Michael Yayac, Alexander R Vaccaro

SECTION 2 Thoracolumbar

11. **Thoracic Transpedicular Decompression and Costotransversectomy** 65
Preetpaul S Bagi, Glenn S Russo, Shirvinda A Wijesekera
12. **Anterior Thoracic Discectomy/Corpectomy/Anterior Instrumentation** 72
Yoji Ogura, John R Dimar, Leah Y Carreon
13. **Technical Pearls in the Management of Spinal Oncology** 81
Mostafa El Dafrawy, Jacob Buchowski
14. **Percutaneous Thoracolumbar Pedicle Screw Fixation** 91
Barrett S Boody, Glenn S Russo, Greg Anderson

15. Thoracolumbar Osteotomies: Posterior Column, Pedicle Subtraction, and Vertebral Column Resection.....	96
<i>Daniel R Rubio, Sean M Rider, Munish C Gupta</i>	
16. Thoracolumbar Instrumentation	102
<i>Ron Lehman</i>	
17. Sacral and Pelvic Instrumentation	110
<i>Barrett S Boody, Glenn S Russo, Joseph D Smucker</i>	
18. Transforaminal Lumbar Interbody Fusion.....	115
<i>Barrett S Boody, Glenn S Russo, Jeffrey Rihn</i>	
19. Technical Pearls in the Management of Adult Scoliosis.....	118
<i>Lawrence Lenke, James D Lin</i>	
20. Anterior Lumbar Interbody Fusion Technique	123
<i>Barrett S Boody, Glenn S Russo, Mark Kurd</i>	
21. Technical Pearls in the Surgical Management of Thoracic and Lumbar Trauma.....	127
<i>Ashley R Strickland, Rohan Gopinath, Samuel Q Li, Jael E Camacho, M Farooq Usmani, Steven C Ludwig</i>	
22. Open Microdiscectomy and Laminectomy	137
<i>Tyler Kreitz, Howard An</i>	

SECTION 3 Miscellaneous

23. Minimally Invasive Surgical Discectomy and Laminectomy.....	145
<i>Sheeraz Quereshi</i>	
24. Extraforaminal Approaches for Microdiscectomy and Foraminal Decompression in the Lumbar Spine.....	149
<i>Barrett S Boody, Glenn S Russo, Rick C Sasso</i>	
25. The Fellows Manual: Techniques of Spine Surgery Minimally Invasive Transforaminal Lumbar Interbody Fusion.....	155
<i>Peter B Derman, Sravisht Iyer, Dil V Patel, Joon S Yoo, Kern Singh</i>	
26. Lateral Lumbar Interbody Fusion.....	160
<i>Corey T Walker, David S Xu, Juan S Uribe</i>	
27. Ante-Psoas Interbody Fusion	164
<i>Neel Anand, Sheila Kahwaty</i>	
28. Navigation Techniques.....	173
<i>Peter R Swiatek, Wellington K Hsu</i>	
29. Technical Pearls in the Management of Spinal Cord Injury	180
<i>Daniel Franco, Aria Mahtabfar, Glenn Gonzalez, James Harrop</i>	
30. Dural Repair Strategies	188
<i>Fadi Al-Saiegh, Anthony Stefanelli, Srinivas Prasad</i>	
31. Minimally Invasive Sacroiliac Joint Fusion	190
<i>Matthew J Sabatino, Glenn S Russo, Peter G Whang</i>	

Index.....	197
-------------------	------------