

Contents

I

Basic Considerations

- 1 History and Overview 3**
Julie E. York, M.D., Mark K. Thompson, M.D.,
and Mick J. Perez-Cruet, M.D., M.Sc.
- 2 Setting Up an Ambulatory Spinal Surgery Clinic 11**
Richard N.W. Wohns, M.D., M.B.A.
- 3 The Business of Outpatient Spinal Surgery 21**
Richard N.W. Wohns, M.D., M.B.A.
- 4 Patient Education 35**
Mick J. Perez-Cruet, M.D., M.Sc., Laurie Rice-Wyllie, R.N., M.S., ANP-C,
and Daniel R. Pieper, M.D.
- 5 Anesthesia and Pain Management 49**
Harsimran S. Brara, M.D.

II

Operative Procedures

- 6 Posterior Cervical Microendoscopic Foraminotomy 71**
Larry T. Khoo, M.D., Mick J. Perez-Cruet, M.D., M.Sc.,
Daniel T. Laich, D.O., and Richard G. Fessler, M.D., Ph.D.
- 7 Anterior Cervical Foraminotomy 95**
J. Patrick Johnson, M.D.
- 8 Single-Level Anterior Cervical Microdiscectomy 107**
Randall R. McCafferty, M.D., Michael A. Leonard, M.D.,
Richard G. Fessler, M.D., Ph.D., and Mick J. Perez-Cruet, M.D., M.Sc.
- 9 Anterior Cervical Spine Spacer 123**
Newton Paes, M.D., Oswaldo Tella, M.D., and Mick J. Perez-Cruet, M.D., M.Sc.
- 10 Lumbar Microdiscectomy 133**
Christopher J. Koebbe, M.D., and Mick J. Perez-Cruet, M.D., M.Sc.

- 11 Microdiscectomy With Minimally Invasive Tubular Retractor** 159
Donald Long Hilton, Jr., M.D.
- 12 Endoscopic Lumbar Microdiscectomy** 171
Mick J. Perez-Cruet, M.D., M.Sc., Maurice M. Smith, M.D.,
and Kevin T. Foley, M.D.
- 13 Endoscopic Far-Lateral Lumbar Microdiscectomy** 185
Sanjay K. Gupta, M.D., Maurice M. Smith, M.D., and Kevin T. Foley, M.D.
- 14 Endoscopic Lumbar Laminotomy for Stenosis** 197
Larry T. Khoo, M.D., Kristine M. Khoo, N.P., Robert E. Isaacs, M.D.,
and Richard G. Fessler, M.D., Ph.D.
- 15 Percutaneous Lumbar Techniques** 217
Josef Ramsbacher, M.D., and Mario Brock, M.D., Ph.D.
- 16 Vertebroplasty** 231
Lisa L. Guyot, M.D., Ph.D., and Richard D. Fessler, M.D.
- 17 Minimally Invasive Lumbar Intervertebral Disc Stabilization** 243
Madhavan Pisharodi, M.D., and Amayur Chandran, Ph.D.
- 18 Laparoscopic Anterior Interbody Fusion of the Lumbosacral Spine** 263
Stephen E. Heim, M.D., and Anthony Altimari, M.D.



Complications and Outcomes Analysis

- 19 Prevention and Management of Complications** 277
Fadi Hanbali, M.D., and Ziya L. Gokaslan, M.D.
- 20 Clinical Outcomes Analysis** 293
Devanand A. Dominique, M.B., B.Ch., and Michael G. Fehlings, M.D.,
Ph.D., F.R.C.S.(C.)

Index 303