

# Contents

## Part I Identification and Management of Pain Patients

<b>1 Identification of the Pain Patient</b> .....	3
Alexios G. Carayannopoulos	
<b>2 Role of Spinal Surgery in Pain Management</b> .....	11
George M. Ghobrial, Alexander Vaccaro, and James S. Harrop	
<b>3 Failed Back Surgery Syndrome</b> .....	19
Youngwon Youn, Heather C. Smith, and Julie G. Pilitsis	
<b>4 Cervical Pain Syndromes</b> .....	29
Bryan C. Hoelzer	
<b>5 Revision Surgery and Alternative Treatment Options for Recurrent Pain Following Spinal Surgery</b> .....	45
Aleka Scoco, Jonathan P. Miller, and Jennifer A. Sweet	
<b>6 Considerations for Neuromodulation</b> .....	57
Jeffrey S. Berger	

## Part II Integrating Pain Management into Practice

<b>7 Practice Setup</b> .....	71
Steven M. Falowski	
<b>8 Referral Networks</b> .....	77
Jason E. Pope	
<b>9 Integration of Specialties</b> .....	85
Steven M. Falowski	
<b>10 Coding and Reimbursement for Spinal Cord Stimulation</b> .....	89
Jason E. Pope and Steven M. Falowski	

### **Part III Pain Management Therapies**

<b>11 Medications Used for the Treatment of Back Pain .....</b>	<b>99</b>
Jonathan D. Carlson, Joshua Peloquin, and Steven M. Falowski	
<b>12 Interventional Procedures .....</b>	<b>109</b>
Daniel A. Fung and Timothy T. Davis	
<b>13 Neuromodulation .....</b>	<b>131</b>
Kasra Amirdelfan	
<b>14 Intrathecal Therapy for Chronic Spine Pain.....</b>	<b>149</b>
Melinda M. Lawrence and Salim M. Hayek	

### **Part IV Surgical Pain Therapies**

<b>15 Epidural Paddle Placement for Spinal Cord Stimulation.....</b>	<b>165</b>
Peter G. Campbell and Steven M. Falowski	
<b>16 Percutaneous Placement.....</b>	<b>175</b>
Konstantin V. Slavin and Dali Yin	
<b>17 Peripheral Nerve Stimulation—Cervical Syndromes.....</b>	<b>191</b>
Joshua M. Rosenow	
<b>18 Peripheral Nerve Stimulation for Axial Pain Syndromes .....</b>	<b>199</b>
W. Porter McRoberts	
<b>19 Intrathecal Drug Delivery: Surgical Technique .....</b>	<b>211</b>
William S. Rosenberg	
<b>20 Vertebroplasty and Kyphoplasty .....</b>	<b>227</b>
Ronil V. Chandra, Tony Goldschlager, Thabele M. Leslie-Mazwi, and Joshua A. Hirsch	
<b>21 Emerging Technology in Neuromodulation: Waveforms and New Targets in Spinal Cord Stimulation .....</b>	<b>241</b>
Timothy R. Deer and Chong H. Kim	
<b>Index.....</b>	<b>251</b>

<http://www.springer.com/978-3-319-27794-3>

Integrating Pain Treatment into Your Spine Practice

Falowski, S.M.; Pope, J.E. (Eds.)

2016, XIII, 256 p. 80 illus., 38 illus. in color., Softcover

ISBN: 978-3-319-27794-3