

# Contents

## Part I Upper Extremity: Clavicle – Shoulder

|   |    |
|---|----|
| <b>1 Treatment of Nonunion of Clavicle Fractures</b> . . . . .                                    | 3  |
| Peter V. Giannoudis, Emilio Delli Sante,<br>and Fragkiskos N. Xypnitos                            |    |
| <b>2 Acromioclavicular Joint Dislocation</b> . . . . .  | 9  |
| Roger Hackney, Fragkiskos N. Xypnitos,<br>and Peter V. Giannoudis                                 |    |
| <b>3 Diagnostic Shoulder Arthroscopy</b> . . . . .  | 13 |
| Roger Hackney   |    |
| <b>4 Acromioplasty</b> . . . . .  | 21 |
| Roger Hackney   |    |
| <b>5 Rotator Cuff Repair (Open/Arthroscopic)</b> . . . . .  | 25 |
| Roger Hackney   |    |
| <b>6 Open Anterior Shoulder Stabilization</b> . . . . .   | 31 |
| David Limb  |    |
| <b>7 Arthroscopic Shoulder Stabilization</b> . . . . .  | 37 |
| Roger Hackney   |    |
| <b>8 Arthroscopic Capsular Release for Shoulder Stiffness</b> . . . . .                           | 43 |
| Arup K. Bhadra, Craig S. Roberts,<br>and Frank O. Bonnarens                                       |    |
| <b>9 Total Shoulder Arthroplasty in Degenerative<br/>Osteoarthritis of the Shoulder</b> . . . . . | 51 |
| George M. Kontakis and Theodoros I. Tosounidis  |    |

## Part II Upper Extremity: Humerus – Elbow

|  |    |
|--|----|
| <b>10 Nonunions of the Humeral Shaft: Open Reduction<br/>Plate Fixation and Autologous Bone Graft Augmentation</b> . . . . . | 63 |
| Nikolaos K. Kanakaris, Fragkiskos N. Xypnitos,<br>and Peter V. Giannoudis  |    |
| <b>11 Repair of the Ruptured Distal Biceps Tendon</b> . . . . .  | 71 |
| David Limb   |    |

|  |  |            |
|--|--|------------|
| <b>12</b>  | <b>Subcutaneous Ulnar Nerve Transposition</b> .....  | <b>75</b>  |
|  | Robert Farnell   |            |
| <b>13</b>  | <b>Lateral Collateral Ligament Reconstruction<br/>for Posterolateral Rotatory Instability of the Elbow</b> ..... | <b>81</b>  |
|  | Panagiotis Stavlas and Christos Sinopidis  |            |
| <b>14</b>  | <b>Elbow Arthroscopy</b> .....   | <b>87</b>  |
|  | David Limb and Panagiotis Stavlas  |            |
| <b>15</b>  | <b>Total Elbow Arthroplasty</b> .....  | <b>95</b>  |
|  | Panayotis N. Soucacos and Panagiotis Liantis   |            |
| <br><b>Part III Upper Extremity: Forearm – Wrist</b> |  |            |
| <b>16</b>  | <b>Forearm Nonunions</b> .....   | <b>109</b> |
|  | Peter V. Giannoudis, Efthimios J. Karadimas,<br>and Fragkiskos N. Xypnitos                                       |            |
| <b>17</b>  | <b>Wrist Arthroscopy</b> .....   | <b>115</b> |
|  | Doug A. Campbell   |            |
| <b>18</b>  | <b>Wrist Arthrodesis</b> .....   | <b>121</b> |
|  | Robert Farnell   |            |
| <b>19</b>  | <b>Scaphoid Nonunion</b> .....   | <b>129</b> |
|  | Doug A. Campbell   |            |
| <b>20</b>  | <b>Trapezectomy</b> .....  | <b>135</b> |
|  | Robert Farnell   |            |
| <b>21</b>  | <b>Carpal Tunnel Release</b> .....   | <b>141</b> |
|  | Doug A. Campbell   |            |
| <b>22</b>  | <b>Release of the First Extensor Compartment<br/>at the Wrist (DeQuervain’s Decompression)</b> .....             | <b>147</b> |
|  | Robert Farnell   |            |
| <b>23</b>  | <b>Dupuytren’s Fasciectomy</b> .....   | <b>151</b> |
|  | Doug A. Campbell   |            |
| <b>24</b>  | <b>Trigger Finger Release</b> .....  | <b>157</b> |
|  | Robert Farnell   |            |
| <b>25</b>  | <b>Tendon Transfers for Median Nerve Palsy</b> .....   | <b>163</b> |
|  | Gráinne Bourke and Andrew Williams   |            |
| <b>26</b>  | <b>Tendon Transfers for Radial Nerve Palsy</b> .....   | <b>171</b> |
|  | Gráinne Bourke and Andrew Williams   |            |
| <b>27</b>  | <b>Tendon Transfers for Ulnar Nerve Palsy</b> .....  | <b>181</b> |
|  | Gráinne Bourke and Andrew Williams   |            |

## **Part IV Spine: Cervical Spine**

- 28 Surgical Technique of Anterior Cervical Discectomy and Fusion (ACDF) . . . . . 189**  
 Abhay S. Rao, Antony L.R. Michael, and Jake Timothy

## **Part V Spine: Lumbar Spine**

- 29 Microdiscectomy/Microdecompression for Intraspinal Intervertebral Disc Prolapses and Lateral Recess Stenosis . . . . . 197**  
 Robert A. Dunsmuir
- 30 Lumbar Decompression and Instrumented Fusion . . . . . 205**  
 Robert A. Dunsmuir and Antony L.R. Michael
- 31 Spinal Stenosis/Decompression . . . . . 213**  
 Efthimios J. Karadimas and Abhay S. Rao

## **Part VI Spine: Scoliosis**

- 32 Posterior Correction of Adolescent Idiopathic Scoliosis (Principles for the Posterior Correction of Spinal Curvatures) . . . . . 221**  
 Robert A. Dunsmuir

## **Part VII Spine: Vertebro/Kyphoplasty**

- 33 Surgical Technique of Vertebral Cement Augmentation (Vertebro/Kyphoplasty) . . . . . 231**  
 Antony L.R. Michael, Abhay S. Rao,  
 and Jake Timothy

- Index . . . . . 241**