

Brachial Plexus Injuries

Edited by

Alain Gilbert



Federation of European Societies for Surgery of the Hand

MARTIN DUNITZ

CONTENTS

- List of contributors v
- I THE BRACHIAL PLEXUS
- 1 Anatomy of the brachial plexus
Alexandre Muset i Lara, Carlos Dolz, and Alfonso Rodríguez-Baeza 3
 - 2 Physical examination
Türker Özkan and Atakan Aydin 17
 - 3 Radiological and related investigations
Albert (Bart) CJ Slooff, Corneleus (Cees) WM Versteeghe, Gerhard Blaauw, and Willem JR van Ouwerkerk 31
 - 4 Clinical neurophysiological investigations
Jan W Vredeveld 39
- II THE ADULT TRAUMATIC BRACHIAL PLEXUS
- 5 Etiology
Panupan Songcharoen 47
 - 6 Surgical techniques: neurolysis, sutures, grafts, neurotizations
Michel Merle and Aymeric Lim 51
 - 7 Supraclavicular plexus injuries
Jean Y Alnot 57
- 8 Complete palsy
Chantal Bonnard and Dimitri J Anastakis 67
 - 9 Update on the treatment of adult brachial plexus injuries
Hanno Millesi 77
 - 10 Injuries of the terminal branches of the brachial plexus
Rolfe Birch 91
 - 11 The place of arthrodesis
Giorgio A Brunelli 107
 - 12 Palliative surgery: tendon transfers to the shoulder in adults
Aydin Yüctürk 115
 - 13 Palliative surgery: the elbow and forearm
Alfred C Berger, Robert Hierner, and Lutz Kleinschmidt 123
 - 14 Palliative surgery: the hand
Jamal Gousheh 131
 - 15 Palliative surgery: free muscle transfers
Kazuteru Doi 137
- III OBSTETRICAL PARALYSIS
- 16 Aetiology
JM Hans Ubachs and Albert (Bart) CJ Slooff 151

- 17 Examination and prognosis
Howard M Clarke and Christine G Curtis 159
- 18 Conservative treatment of obstetrical brachial plexus palsy (OBPP) and rehabilitation
Robert S Muhlig, Gerhard Blaauw, Albert (Bart) CJ Slooff, Jan W Kortleve, and Alfons J Tonino 173
- 19 Surgical technique
Jose L Borrero 189
- 20 Indications and strategy
Alain Gilbert 205
- 21 Results of repair to the obstetrical plexus
Alain Gilbert 211
- 22 Results of surgery after breech delivery
Gerhard Blaauw, Albert (Bart) CJ Slooff, and Robert S Muhlig 217
- 23 Palliative surgery: shoulder paralysis
Piero L Raimondi, Alexandre Muset i Lara, and Elisabetta Saporiti 225
- 24 Palliative surgery: tendon transfers to the shoulder in children
Aydin Yüceltürk 239
- 25 Medial rotation contracture and posterior dislocation of the shoulder
Rolfe Birch 249
- 26 Palliative surgery: elbow paralysis
Vincent R Hentz 261
- 27 Palliative surgery: pronosupination in obstetrical palsy
Eduardo A Zancolli (II) 275
- 28 Palliative surgery: forearm and hand deformities
David C-C Chuang 293
- 29 Treatment of co-contraction
Robert Hierner and Alfred C Berger 303
- IV SPECIAL LESIONS
- 30 Traumatic brachial plexus injuries in children
Alain Gilbert and Christian Dumontier 315
- 31 War Injuries
Jamal Gousheh 321
- Index 326