

Hand Arthroplasties

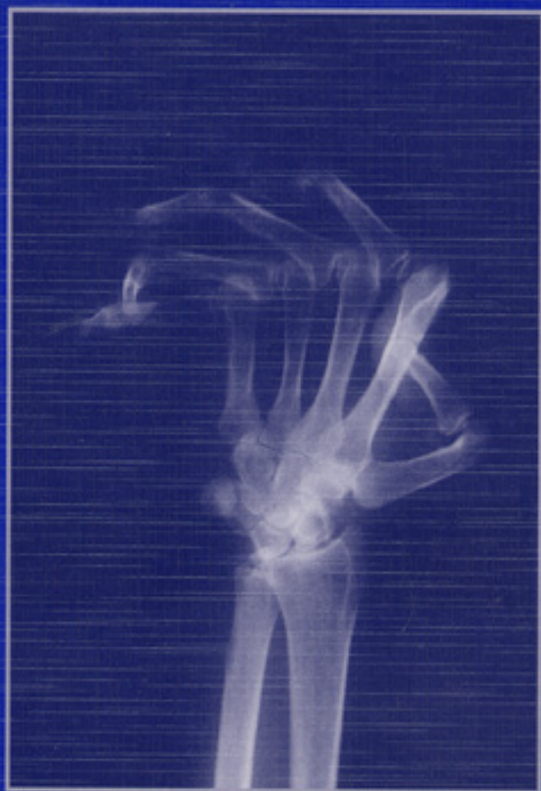
Edited by

Beat R Simmen

Yves Allieu

Alberto Lluch

John Stanley



Federation of European Societies for Surgery of the Hand

MARTIN DUNITZ

CONTENTS

List of contributors vii

Preface xi

I BIOLOGY

- 1 Costal cartilage interposition in first carpometacarpal joint arthroplasty
Miho Nicoloff 3
- 2 Proximal interphalangeal joint reconstruction by vascularized transfer
Guy Foucher, Jose Medina, and Ricardo Navarro Garcia 11
- 3 Elbow allografts and their long-term results
Yves Allieu, Michel Chammas, Pierre Desbonnet, Gero Meyer zu Reckendorf, and Olivier Delattre 19
- 4 Cartilage repair by tissue engineering
Raphael Bardonnet, Laurent Laganier, and Dragoslav Mitrovic 27

II RESEARCH

- 5 Osseointegration
Göran Lundborg 39
- 6 Cemented and non-cemented biological fixation and osseointegration: design and clinical behaviour
Peter Hout 49
- 7 Microparticle-induced inflammatory arthropathy
Clayton A Peimer 61
- 8 Small joint implant arthroplasty: 38 years of research and experience
Alfred B Swanson, Geneviève de Groot Swanson, and David H DeHeer 69

III ELBOW

- 9 Application of an early motion fixator in resection arthroplasty with interposition of free autogenous periosteal graft
Michel Chammas, Kamel Hamitouche, Jean-Luc Roux, and Yves Allieu 85
- 10 Kudo prostheses
Paul Gallagher 91
- 11 Souter–Strathclyde prostheses
William A Souter 99
- 12 GSB III prostheses
Norbert Gschwend, Beat R Simmen, and Hans-Kasper Schwyzer 109
- 13 GUEPAR elbow prostheses
Jean-Yves Alnot, Nabil Osman, Emmanuel Masmejean, Frederic Teboul, and GUEPAR 119
- 14 Radial head arthroplasty: Judet prostheses
Thierry Judet, Christian Garreau de Loubresse, and Philippe Piriou 129
- 15 Revision of failed arthroplasties
John Stanley and David J Gidden 137

IV ULNAR HEAD

- 16 Ulnar head prostheses: a new solution for problems at the distal radioulnar joint
Timothy J Herbert and Jörg van Schoonhoven 145
- 17 Distal radioulnar joint prostheses to rescue the so-called salvage procedures
Luis R Schecker 151

- V WRIST
- 18 Titanium implant arthroplasties for the lunate, scaphoid and trapeziometacarpal joints
Alfred B Swanson and Geneviève de Groot Swanson 161
- 19 Arthroscopic proximal row carpectomy
Moody Kwok and A Lee Osterman 173
- 20 Resection arthroplasty of the scaphoid–trapezium–trapezoid joint
Marc Garcia-Elias 177
- 21 Biomechanical considerations for wrist arthroplasty
Jean-Luc Roux, Jean-Paul Micallef, and Yves Allieu 183
- 22 Flexible hinged silicone
Alberto Lluch 193
- 23 Meuli prostheses
Hans Christoph Meuli 201
- 24 Biax prostheses
Robert D Beckenbaugh 209
- VI TRAPEZIOMETACARPAL JOINT
- 25 Capsular shrinkage and arthroscopic debridement in the treatment of early carpometacarpal joint arthritis
Mark S Rekan and A Lee Osterman 217
- 26 Suspension interposition arthroplasty
Massimo Ceruso, Luca Delcroix, and Marco Innocenti 223
- 27 Silicone spacers
Alberto Lluch 233
- 28 Factors influencing the long-term outcome of trapeziometacarpal prostheses
Jean-Yves de la Caffinière 243
- 29 Arpe prostheses
Jean-Jacques Comtet 249
- 30 Roseland prostheses
François Moutet 257
- 31 Carat prostheses: the use of a new method for progress in implant design
Pascal Ledoux 261
- 32 GUEPAR trapeziometacarpal prostheses
Jean-Yves Alnot, Emmanuel H Masméjean, Roberto Beccari, Guy-Paul Muller and GUEPAR 269
- 33 Cardan prostheses
Adalbert I Kapandji and Thierry C Kapandji 275
- 34 Surface replacement prostheses: preliminary experience with Avanta prostheses
L Christopher Bainbridge, Ronald L Linscheid, R Andrew Raine, and Marie Rostek 285
- VII METACARPOPHALANGEAL JOINT
- 35 Flexible silicone implant arthroplasties
Daniel V Egloff 295
- 36 Metacarpophalangeal arthroplasties: prosthetic design considerations
Ronald L Linscheid 301
- 37 NeuFlex prostheses
Arnold-Peter C Weiss 315
- 38 Pyrolytic carbon implants
Robert D Beckenbaugh 323
- VIII INTERPHALANGEAL JOINTS
- 39 Proximal interphalangeal arthroplasty with special reference to Swanson silastic implants
Daniel B Herren and Beat R Simmen 331
- 40 Digital arthroplasties using the DJOA prosthesis
Jean-Luc Condamine 339
- 41 Proximal interphalangeal joint arthroplasties
Ronald L Linscheid, Robert D Beckenbaugh, and William C Cooney, Jr 349
- Index 357