Table of Content

1 The Importance of European Registers in Respect to Infections in Arthroplasty ... 1
   Ákos Zahár

2 Increasing Incidence of Infected THA in Norway Despite Improved Antibiotic Prophylaxis ... 3
   Lars B. Engesæter
   Introduction ... 3
   Methods ... 3
   Results ... 4
   Discussion ... 5
   Conclusions ... 5
   References ... 6

3 Update from the Swedish Arthroplasty Registers with Special Reference to Infections ... 7
   Anna Stefánsdóttir, Johan Kärrholm, Otto Robertsson
   Introduction ... 7
   Material ... 7
   Results ... 9
   Discussion ... 11
   Conclusion ... 11
   References ... 11

4 Status and Prospect of an European Arthroplasty Register (EAR) ... 13
   S. Gaiser
   Introduction ... 13
   Possible Prospects for EAR and International Approaches to Arthroplasty Registers ... 13
   Conclusion ... 15
   References ... 15

5 The Infected Implant – Microbiology and Clinical Strategies ... 17
   Ian Stockley
   Pathophysiology of Joint Infections ... 17
   Management of Prosthetic Joint Infection ... 17

6 Infection of Joint Prosthesis and Local Drug Delivery ... 19
   A. Górecki, I. Babiak
   Introduction ... 19
   Prevalence, Nature and Consequences of Periprosthetic Infection ... 19
   Diagnosis and Therapy of Periprosthetic Infection ... 20
   Local Antibiotic Delivery Systems ... 21
   Prophylactic Measures Against Colonization and Development of Biofilm ... 24
   References ... 25

7 Clinical Strategy for the Treatment of Deep Infection of Hip Arthroplasty ... 27
   D. Jahoda
   Single Antibiotic Therapy (Chronic Suppressive Therapy) ... 31
   Debridement and Rinse Lavage ... 31
   One-Stage Exchange ... 33
   Two-Stage Exchange ... 34
   Resection Arthroplasty ... 38
   Conclusions ... 39
   References ... 40

8 Infection after Total Knee Arthroplasty: Diagnosis, Management Strategies and Outcomes ... 43
   P.C.M. Verdonk, P. Vansintjan, R. Verdonk
   Introduction ... 43
   Materials and Methods ... 44
   Results/Clinical Studies ... 44
   Discussion ... 55
   Conclusion ... 57
   References ... 57

9 Spacer Management in Periprosthetic Infections ... 61
   C. Eberhardt
   Introduction ... 61
   Non-Articulating Spacers ... 62
   Articulating Spacers ... 64
   Concerns ... 66
   Advantages of Mobile Spacers ... 68
10 Observational Study of Bone Cement with Two Antibiotics in Revision Arthroplasty of Knee and Hip ................. 73
J. Sauer
Introduction .................................. 73
Methods ..................................... 74
Results ....................................... 75
Discussion .................................... 78
Literature ...................................... 81

11 Treatment of an Infected Joint Prosthesis: Difficult Challenge for an Orthopedist Surgeon ............. 83
T. Bauer, A. Lortat-Jacob

12 Low-Grade Infection and Multiresistant Gram-Positive Cocci ............. 85
R. Schaumann, A.C. Rodloff
Introduction .................................. 85
Diagnosis of Low-Grade Infections .................. 85
Isolated Microorganisms ......................... 86
Emergence of Resistance ....................... 86
Biofilm ..................................... 87
Treatment of Low-Grade Infections ............. 87
References .................................... 88

13 Antibiotic Strategies in Septic Arthroplasties .......... 91
J. Cordero-Ampuero
Introduction .................................. 91
Biomaterials Reduce Immune System Efficiency .................................. 91
Biofilm ..................................... 92
Intracellular Bacteria ................. 93
Future ....................................... 95
References .................................... 95

14 Introduction: Revision Cemented Versus Uncemented ................. 97
L. Luňáček
Introduction .................................. 99
Material and Methods .......... 99
Discussion .................................. 100

15 Cemented revision THA ............. 99
L. Luňáček
Introduction .................................. 99
Material and Methods .......... 99
Discussion .................................. 100

16 Pro Uncemented Revision ................. 105
M. Krbec
Introduction .................................. 105
Material and Methods .......... 105
Results ..................................... 106
Discussion .................................. 108
Conclusion .................................... 110
References .................................... 111

17 The Infected Implant: Revision One Stage Versus Two Stage – Introduction To Crossfire Session ................. 113
E. Meani, P. Trezza
Septic Hip Prosthesis – One-Stage Revision .................. 114
Septic Hip Prosthesis – Two-Stage Revision: Reasons of a Choice ................. 116
Conclusions .................................. 116
References .................................... 117

18 One Stage Revision – Favourite Option? ............. 119
G. von Foerster, L. Frommelt
Introduction .................................. 119
Method of One-Staged Revision .......... 119
Technique of One-Staged Revision Including Pre-Operative Precautions and Postoperative Nursery ................. 121
Antimicrobial Agents in One-Staged Revision .......... 124
Advantages of One-Staged Revision .......... 124
Limits of One-Staged Revision .......... 124
Discussion .................................. 125
Conclusion .................................... 125
References .................................... 126

19 Advantages of Two-Stage Revision Arthroplasty ................. 127
F. Randelli, A. Aliprandi, L. Banci, L. Sconfienza, F. Sardanelli
Background .................................. 127
Total Hip Replacement Deep Infection Management .......... 129
Conclusion .................................... 132
References .................................... 132

Subject Index .......... 135
The Infected Implant
Kienapfel, H.; Kühn, K.-D. (Eds.)
2009, X, 139 p., Softcover
ISBN: 978-3-540-92835-5