



A Modern Approach to Biofilm-Related Orthopaedic Implant Infections [Advances in Microbiology, Infectious Diseases and Public Health Volume 5 /

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Springer International Publishing,
2017

Microbiology

Bacteriology

Medical Microbiology

Monografía

This book discusses Prosthetic Joint Infection (PJI), which remains one of the most common problems necessitating revision arthroplasty. It pursues a multidisciplinary approach, bringing together opinions from the leading experts in the field. The book identifies the potential causes of these infections, provides sound diagnostic criteria guidelines, and explains how these prosthetic infections are managed from orthopedic surgery, clinical and diagnostic perspectives. PJI can lead to multiple revision surgeries and significant patient morbidity. Periprosthetic infection rates remain around 12% after primary total hip and knee arthroplasty and account for approximately 712% of all revision cases. Orthopedic hardware infections are much-feared and costly complications that can occur when these devices are implemented both in traumatic cases as well as in joint replacement surgery. Because these infections can lead to higher morbidity, it is important to understand their pathophysiology and the principles behind their diagnosis and initial treatment. The pathogenesis of these kinds of infections is intimately connected to the biofilm-producing trait characteristic of many microorganisms, which can have a critical effect on the likely success of treatments. The book offers a unique guide for all scientists working in arthroplasty who are seeking an update on the field, and for newcomers alike

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Título: A Modern Approach to Biofilm-Related Orthopaedic Implant Infections [Recurso electrónico] Advances in Microbiology, Infectious Diseases and Public Health Volume 5 edited by Lorenzo Drago

Editorial: Cham Springer International Publishing Imprint: Springer 2017

Editorial: Cham Springer International Publishing 2017

Descripción física: VI, 119 p. 20 il. col

Mención de serie: Advances in Microbiology, Infectious Diseases and Public Health 971

Bibliografía: Includes bibliographical references at the end of each chapters and index

Contenido: Chapter 1: The concept of biofilm-related implant malfunction and low-grade infection -- Chapter 2: Mechanisms of bacterial colonization of implants and host response -- Chapter 3: Animal models of implant-related low grade infections -- Chapter 4: Microbiological diagnosis of implant-related infections: scientific evidence and cost/benefit analysis of routine antibiofilm processing -- Chapter

ISBN: 9783319522746 9783319522739 9783319522753 9783319848648

Materia: Microbiology Bacteriology Medical Microbiology Bacteriology

Autores: Drago, Lorenzo, ed. lit

Enlace a formato físico adicional: 3-319-52273-6

Punto acceso adicional serie-Título: Advances in Microbiology, Infectious Diseases and Public Health 971

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