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Encyclopedia of Intensive Care Medicine
The Management of Sickle Cell Disease
Total Hip Replacement
Musculoskeletal Infections
Management of Periprosthetic Joint Infections (PJIs)
ABC of Rheumatology
Infection and Local Treatment in Orthopedic Surgery
Selected Topics in Neonatal Care
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Quality Management and Accreditation in Hematopoietic Stem Cell Transplantation and Cellular Therapy
Biomaterials Science
Revision Hip Arthroplasty
The Resonant Recognition Model of Macromolecular Bioactivity

Encyclopedia of Intensive Care Medicine
This open access book provides a concise yet comprehensive overview on how to build a quality management program for hematopoietic stem cell transplantation (HSCT) and cellular therapy. The text reviews all the essential steps and elements necessary for establishing a quality management program and achieving accreditation in HSCT and cellular therapy. Specific areas of focus include document development and implementation, audits and validation, performance measurement, writing a quality management plan, the accreditation process, data management, and maintaining a quality management program. Written by experts in the field, Quality Management and Accreditation in Hematopoietic Stem Cell Transplantation and Cellular Therapy: A Practical Guide is a valuable resource for physicians, healthcare professionals, and laboratory staff involved in the creation and maintenance of a state-of-the-art HSCT and cellular therapy program.

The Management of Sickle Cell Disease
This practically-oriented volume presents the principles and practice of infectious disease medicine, focusing on management diagnosis and treatment. Appealing to internists and general clinicians as well as the specialist, basic concepts and applications are stressed with references provided in a user-friendly annotated style. A color plate section highlights key clinical entities.

Total Hip Replacement
The revised edition of this renowned and bestselling title is the most comprehensive single text on all aspects of biomaterials science. It provides a balanced, insightful approach to both the learning of the science and technology of biomaterials and acts as the key reference for practitioners who are involved in the applications of materials in medicine. Over 29,000 copies sold, this is the most comprehensive coverage of principles and applications of all classes of biomaterials: "the only such text that currently covers this area comprehensively" - Materials Today Edited by four of the best-known figures in the biomaterials field today; fully endorsed and supported by the Society for Biomaterials Fully revised and expanded, key new topics include of tissue engineering, drug delivery systems, and new clinical applications, with new teaching and learning material throughout, case studies and a downloadable image bank

Musculoskeletal Infections
Management of Periprosthetic Joint Infections (PJIs): Management of PJIs discusses periprosthetic joint infection (PJI), a fairly rare occurrence that is nonetheless one of the most serious complications in joint replacement surgery. Intricate interactions between the pathogen, the host, and the implant can result in PJIs which are not...
only physically devastating for the patient, but also financially crippling for health authorities and insurance companies. Actions taken to minimize the risk of PJIs can be extremely challenging for the orthopaedic community. Consequently, new research, which is detailed in this comprehensive book, is being undertaken to minimize and manage these challenging infections. Provides essential background knowledge on the mechanisms and identification of PJIs. Dedicated chapters focus on the complex, but vital eccentricities between PJIs in different areas of the body. Contains contributions from a mixture of clinical and academic experts in the field, thus ensuring balanced coverage.

**Management of Periprosthetic Joint Infections (PJIs)**

As physicians, we have a constant passion for improving and maintaining patient's care and safety. The book is divided into three parts focusing on the essentials of general concepts, diagnosis, and management of accident and emergency medicine, as well as an academic approach to teaching in the emergency setting. The chapters selected for this book are written by an excellent group of recognized emergency surgeons and physicians from different countries and cultures facilitating a comprehensive and interesting approach to the problems of emergency treatment. We hope this book will be helpful and used worldwide by medical students, clinicians, and researchers enhancing their knowledge and advancing their objectives by a book that intends to become a reference text for research and practice within accident and emergency medicine.

**ABC of Rheumatology**

The incidence of total hip arthroplasty is increasing in number because of successful outcomes. Although technically challenging, once mastered a hip replacement is one of the most gratifying surgeries for both patient and surgeon. This book covers some of the most important aspects of hip replacement surgery. These include preoperative planning, anesthesia, classification systems, management of proximal femur fractures, anterior approach, complications, and rehabilitation aspects of hip arthroplasty. The book is intended for arthroplasty surgeons, anesthetists, and physical therapists who will find the book useful in parts and as a whole if they deal with arthroplasty cases on a regular basis. Experience-based narration of various subjects by authors ensures that first-hand experience is passed on to readers in a simple, easy-to-understand manner.

**Infection and Local Treatment in Orthopedic Surgery**

This study measures the incidence and prevalence of musculoskeletal conditions and projects trends, presenting the latest national data illuminating the physical and economic costs. Several professional organizations concerned with musculoskeletal health and the mission of the U.S. Bone and Joint Decade collaborated to tabulate the data, to educate health care professionals, policy makers and the public. –Publisher's description.

**Selected Topics in Neonatal Care**

Palaeopathology is designed to help bone specialists with diagnosis of diseases in skeletal assemblages. It suggests an innovative method of arriving at a diagnosis in the skeleton by applying what are referred to as 'operational definitions'. The aim is to ensure that all those who study bones will use the same criteria for diagnosing disease, which will enable valid comparisons to be made between studies. This book is based on modern clinical knowledge and provides background information so that those who read it will understand the natural history of bone diseases, and this will enable them to draw reliable conclusions from their observations. Details of bone metabolism and the fundamentals of basic pathology are also provided, as well as a comprehensive and up-to-date bibliography. A short chapter on epidemiology provides information on how best to analyze and present the results of a study of human remains.

**Building the Case for Health Literacy**

During last couple of years there has been an increasing recognition that problems arising in biology or related to medicine really need a multidisciplinary approach.
For this reason some special branches of both applied theoretical physics and mathematics have recently emerged such as biomechanics, mechanobiology, mathematical biology, biothermodynamics. This first section of the book, General notes on biomechanics and mechanobiology, comprises from theoretical contributions to biomechanics often providing hypothesis or rationale for a given phenomenon that experiment or clinical study cannot provide. It deals with mechanical properties of living cells and tissues, mechanobiology of fracture healing or evolution of locomotor trends in extinct terrestrial giants. The second section, Biomechanical modelling, is devoted to the rapidly growing field of biomechanical models and modelling approaches to improve our understanding about processes in human body. The last section called Locomotion and joint biomechanics is a collection of works on description and analysis of human locomotion, joint stability and acting forces.

Arthroplasty

The aim of this comprehensive encyclopedia is to provide detailed information on intensive care medicine contributing to the broad field of emergency medicine. The wide range of entries in the Encyclopedia of Intensive Care Medicine are written by leading experts in the field. They will provide basic and clinical scientists in academia, practice, as well as industry with valuable information about the field of intensive care medicine, but also people in related fields, students and teachers will benefit from the important and relevant information on the most recent developments in emergency medicine. The Encyclopedia will contain 4 volumes, and published simultaneously online. The entire field has been divided into 14 sections. All entries will be arranged in alphabetical order with extensive cross-referencing between them.

Palaeopathology

This book is focused on clarifying the anticancer effects (i.e., apoptotic, antiproliferative, antimetastatic, antiangiogenic) and mechanisms of most of the medicinal plants found in the world against solid and/or hematological cancers.

Musculoskeletal Infection

This book is a practice-oriented manual teaching the successful examination technique developed and taught by the author known as “Graf's technique". The book is based on the author's experience of more than 20 years. It is easy to read and provides a real “hands-on” manual giving numerous practical tips. The book includes the fundamentals of hip sonography, static as well as dynamic techniques, anatomical identification of the echograms, typing, a measurement technique and usability check. The book also contains an atlas including a summary of the essential data and demonstrating correct and incorrect sonograms in different variations.

Clinical Infectious Diseases

In 2%-7% of bone fractures, union of the bones is delayed or fails. This can have a severe psychological impact on the patients, and represents a multitude of challenges for orthopedic surgeons. This book discusses currently available tools for diagnosing long bone nonunions, illustrates means of prevention, and specifies the indications for management using compression-distraction techniques. Based on hundreds of cases treated personally by the authors.

External Fixation in Orthopedic Traumatology

External fixation in Orthopedic traumatology is a textbook that focuses on the use of external fixation in the acute management of patients with serious orthopedic injuries. The book highlights the indications for external fixation and provides an evidenced based guide to both the specialist orthopedic surgeon and the trainee. The manuscript is organised in 15 chapters covering the indications and surgical techniques for pelvis, lower limb and upper limb injuries, including detailed illustrations and clinical photographs that will enable the reader to rapidly visualise the structure of the construct and to plan the surgery accordingly. More general topics such as damage control orthopedics, the biomechanics of external fixation and medico-legal considerations surrounding the injured patients are also included to provide an
overall picture of the Orthopedic trauma patient. The Combined experience of the editors and authors, their involvement in a number of external fixation system
designs and their international reputation in the field contribute to making this textbook an essential tool that should be available to all orthopedic surgeons dealing
with injured patients.

**A Treatise on the Blood, Inflammation, and Gun-shot Wounds**

The field of health literacy has evolved from one focused on individuals to one that recognizes that health literacy is multidimensional. While communicating in a
health literate manner is important for everyone, it is particularly important when communicating with those with limited health literacy who also experience more
serious medication errors, higher rates of hospitalization and use of the emergency room, poor health outcomes, and increased mortality. Over the past decade,
research has shown that health literacy interventions can significantly impact various areas including health care costs, outcomes, and health disparities. To
understand the extent to which health literacy has been shown to be effective at contributing to the Quadruple Aim of improving the health of communities, providing
better care, providing affordable care, and improving the experience of the health care team, the National Academies of Sciences, Engineering, and Medicine
convened a public workshop on building the case for health literacy. This publication summarizes the presentations and discussions from the workshop, and highlights
important lessons about the role of health literacy in meeting the Quadruple Aim, case studies of organizations that have adopted health literacy, and discussions
among the different stakeholders involved in making the case for health literacy.

**Theoretical Biomechanics**

The second edition of The Diversity of Fishes represents a major revision of the world’s most widely adopted ichthyology textbook. Expanded and updated, the second
edition is illustrated throughout with striking color photographs depicting the spectacular evolutionary adaptations of the most ecologically and taxonomically diverse
vertebrate group. The text incorporates the latest advances in the biology of fishes, covering taxonomy, anatomy, physiology, biogeography, ecology, and behavior. A
new chapter on genetics and molecular ecology of fishes has been added, and conservation is emphasized throughout. Hundreds of new and redrawn illustrations
augment readable text, and every chapter has been revised to reflect the discoveries and greater understanding achieved during the past decade. Written by a team
of internationally-recognized authorities, the first edition of The Diversity of Fishes was received with enthusiasm and praise, and incorporated into ichthyology and
fish biology classes around the globe, at both undergraduate and postgraduate levels. The second edition is a substantial update of an already classic reference and
text. Companion resources site This book is accompanied by a resources site: www.wiley.com/go/helfman The site is being constantly updated by the author team and
provides: · Related videos selected by the authors · Updates to the book since publication · Instructor resources · A chance to send in feedback

**Biofilms, Infection, and Antimicrobial Therapy**

Rather than existing in a planktonic or free-living form, evidence indicates that microbes show a preference for living in a sessile form within complex communities
called biofilms. Biofilms appear to afford microbes a survival advantage by optimizing nutrition, offering protection against hostile elements, and providing a network
for cell-to-cell signaling and genetic exchange. Biofilms, Infection, and Antimicrobial Therapy provides an in-depth exploration of biofilms, offering broad background
information, as well a detailed look at the serious concerns to which biofilm-associated infections give rise. Prosthetic device infections, such as those involving
artificial heart valves, intravascular catheters, or prosthetic joints, are prime examples of biofilm-associated infections. With the increasing use of such devices in the
modern practice of medicine, the prevalence of these infections is expected to increase. Unfortunately, one of the most troubling characteristics of microbes found in
biofilms is a profound resistance to antimicrobial agents. As biofilm-associated infections are particularly difficult to treat, they result in significant mortality,
morbidity, and increased economic burden. Clearly, a better understanding of the pathogenesis of these infections and improved means for prevention and treatment
are urgently needed! InBiofilms, Infection, and Antimicrobial Therapy, Drs Pace, Rupp, and Finch assemble the contributions of more than 50 of the world’s leading
authorities on microbial biofilms who present recent findings on antibiotic tolerance and bacterial persistence associated with biofilms and discusses the
implications of those findings with regard to human health. They explore the molecular mechanisms of bacterial adherence, biofilm formation, regulation of biofilm
maintenance, and cell-to-cell communication and present the latest information on various treatment protocols that should aid physicians in the treatment of these
refractory and often difficult-to-treat infections.
Hip Sonography

Musculoskeletal infections investigates the occurrence, progression, severity and clinical prognosis of various soft tissue, bone and joint infections. It explores treatments such as muscle flaps, antibiotics and breakthroughs in adjunctive and gene therapy. It also covers procedures to classify disease stages, identify malevolent organisms, modify host conditions, and select the most appropriate therapeutic regimen.

Brucellosis in Humans and Animals

This text provides a guide to understanding the mechanisms involved in the pathogenesis of musculoskeletal sepsis. It covers areas such as bone, cartilage, soft tissue, and biomaterial interaction in the face of infection.

Nonunion of the Long Bones

Biological processes in any living organism are based on selective interactions between particular biomolecules. In most cases, these interactions involve and are driven by proteins, which are the main conductors of any life process within the organism. The physical nature of these interactions is still not well known. This book presents an entirely new approach to analysis of biomolecular interactions, in particular protein-protein and protein-DNA interactions, based on the assumption that these interactions are electromagnetic in nature. This new approach is the basis of the Resonant Recognition Model (RRM), which was developed over the last 15 years. Certain periodicities within the distribution of energies of delocalised electrons along a protein molecule are crucial to the protein's biological function, i.e. interaction with its target. If protein conductivity were introduced, then charges moving through the protein backbone might produce electromagnetic irradiation or absorption with spectral characteristics corresponding to energy distribution along the protein. The RRM is capable of calculating these spectral characteristics, which we hypothesized would be in the range of the infrared and visible light. These characteristics were confirmed with frequency characteristics obtained experimentally for certain light-induced biological processes.

The Diversity of Fishes

New technologies, developments in implant design and advances in surgical technique have improved outcomes after joint replacement and decreased rate of complications. It is not a surprise that the number of arthroplasties increases steadily every year and nowadays more than one million patients undergo the procedure annually worldwide. This book is a sequel of a successful series dedicated to one of the fastest growing fields in orthopedics - arthroplasty. Aiming at dissemination of scientific research this book provides a profound overview of the recent evolution of technology and surgical techniques. New developments of implant design and current treatment strategies have been critically discussed by the contributing authors. The process of improving care for patients and standards of treatment requires straightforward access to up-to-date research and knowledge. The format of the publication allows easy and quick reference to shared ideas and concepts. We hope, that the current book will add significant contribution to the success of this endeavor.

Antibiotic Materials in Healthcare

This book provides a state-of-the-art, worldwide overview of treatment options available for periprosthetic joint infection (PJI). It highlights areas where tremendous progress has been made over the past few years, looking at current evidence, projecting a way forward, and discussing key topics where ongoing research is needed and could potentially have a huge impact on the field. In addition to familiarising readers with effective diagnostics and treatment strategies, factors such as socioeconomics and associated morbidity are also examined in relation to this increasingly common condition. Periprosthetic Joint Infections: Changing Paradigms includes expert guidance based on the best available evidence and practice that can be applied in even the most difficult infection cases. To create this keystone resource for the orthopaedic community, the editors have brought together prominent experts from Europe and the US to give an international, authoritative perspective on this important topic. This book is an essential guide for specialists who deal with challenging cases of PJI in clinical practice or researchers who are...
seeking a reference point to undertake further studies in this growing area.

**Population Health: Behavioral and Social Science Insights**

The purpose of this book is to gain a better understanding of the multitude of factors that determine longer life and improved quality of life in the years a person is alive. While the emphasis is primarily on the social and behavioral determinants that have an effect on the health and well-being of individuals, this publication also addresses quality of life factors and determinants more broadly. Each chapter in this book considers an area of investigation and ends with suggestions for future research and implications of current research for policy and practice. The introductory chapter summarizes the state of Americans’ health and well-being in comparison to our international peers and presents background information concerning the limitations of current approaches to improving health and well-being. Following the introduction, there are 21 chapters that examine the effects of various behavioral risk factors on population health, identify trends in life expectancy and quality of life, and suggest avenues for research in the behavioral and social science arenas to address problems affecting the U.S. population and populations in other developed and developing countries around the world. Undergraduate and graduate students pursuing coursework in health statistics, health population demographics, behavioral and social science, and health policy may be interested in this content. Additionally, policymakers, legislators, health educators, and scientific organizations around the world may also have an interest in this resource.

**The Burden of Musculoskeletal Diseases in the United States**

Brucellosis, also known as undulant fever, Mediterranean fever, or Malta fever, is an important human disease in many parts of the world. It is a zoonosis and the infection is almost invariably transmitted to people by direct or indirect contact with infected animals or their products. These Guidelines are designed as a concise, yet comprehensive, statement on brucellosis for public health, veterinary and laboratory personnel without access to specialized services. They are also to be a source of accessible and updated information for such others as nurses, midwives and medical assistants who may have to be involved with brucellosis in humans. Emphasis is placed on fundamental measures of environmental and occupational hygiene in the community and in the household as well as on the sequence of actions required to detect and treat patients.

**Periprosthetic Joint Infections**

**Botulinum Neurotoxins**

This book outlines the most updated clinical guidelines that are vital for the prevention infections and care of patients with joint infections following a replacement surgery, one of the highest volume medical interventions globally. Sections address the diagnosis, management approaches and prevention of prosthetic joint infections. Written by experts in the field, this text provides a brief overview of the literature and current recommendations in each of the specified areas. Given the rapidly evolving state-of-play in this clinical area, this compendium grows increasingly important to clinicians in their management decisions. Prosthetic Joint Infections is a valuable resource for infectious disease specialists, epidemiologists, surgeons, and orthopedic specialists who may work with patients with prosthetic joint infections.

**Personalized Hip and Knee Joint Replacement**

Neonatology is one of the areas of greatest development and evolution within pediatrics. The technoscientific advances in this area have led to an increase in the survival of premature infants who sometimes require sophisticated care. However, there is essential care that must be included in all centers that care for high-risk babies. This book includes important topics related to neonatal care grouped into four sections. In 14 chapters that address relevant issues about neonatal care, the book seeks to contribute to the clinical work of the health teams of neonatal units. Specialists in the field of neonatology from different countries have developed
these chapters and through them they hope to share part of their experience.

**Medicinal Plants**

**ABC of Rheumatology** continues to be a practical and informative guide to the assessment, treatment and management of common rheumatic and musculoskeletal conditions within primary care. Fully updated to reflect developments in this fast growing field, the fifth edition covers overviews of all key areas of rheumatology, and includes new chapters on radiology and immunology, as well as expanded coverage on metabolic bone disease, chronic widespread pain, and complex regional pain syndrome. Featuring highly illustrated chapters, boxed summaries and links to further resources, **ABC of Rheumatology** is an accessible reference for all primary care health professionals, general practitioners, family physicians, junior doctors, medical students and nurses.

**Spinal Cord Monitoring**

An in-depth understanding of a comprehensive approach to the management of radius fractures and their complications. The authors -- world renowned experts in the field -- present practical, clinical information from their extensive experience in the treatment of these fractures. Topics include the authors' classification as well as decision-making and tactics in the conservative and operative management of all types of radius fractures. Topics covered include: bending fractures of the metaphysis, shearing and compression fractures of the joint surface, avulsion fractures, radio-carpal fracture and dislocation, combined fractures, high velocity injury and malunions. In addition, chapters deal with surgical techniques and approach as well as with complications. With over 500 illustrations, this is the definitive volume on these challenging fractures, their complete treatment, and the management of complications.

**Updates in Implants for Foot and Ankle Surgery: 35 Years of Clinical Perspectives, An Issue of Clinics in Podiatric Medicine and Surgery**

This comprehensive, clinically oriented reference details the state-of-the-art approach to infections of bones and joints. Utility for all practitioners is ensured by the wide range of contributors who include infectious disease specialists, rheumatologists, orthopedic surgeons, and radiologists. This is the definitive resource for the clinician who treats orthopedic infections.

**Wear of Orthopaedic Implants and Artificial Joints**

This special issue of **Clinics in Podiatric Medicine and Surgery** will harken back to the series inaugural issue and cover the topic of Implants. The issue will be guest edited by Dr. Meagan Jennings, who has gathered a group of all female authors to contribute to this volume. This issue will feature a special article on women in podiatry and medicine, as well as on: Materials, Internal braces, Suture Button fixation, Amnion applications, first MTPJ options, TAR options, Orthobiologics, Infection protocols, and Skin grafts, among others.

**Orthopedic Infection**

The management of orthopedic infection is an area of growing importance in orthopedic surgery. This text provides a complete overview from basic research to clinical application and future perspectives in the treatment of orthopedic infection emphasizing the role of local therapy. Coverage details the various approaches to the treatment of orthopedic infections, making the book an important tool for the daily practice of its readers.

**Essentials of Accident and Emergency Medicine**

2nd international symposium
Tuberculosis of the Skeletal System

Skin-Related Neglected Tropical Diseases (Skin-NTDs): A New Challenge

Prosthetic Joint Infections

Quality Management and Accreditation in Hematopoietic Stem Cell Transplantation and Cellular Therapy

Biomaterials Science

The extremely potent substance botulinum neurotoxin (BoNT) has attracted much interest in diverse fields. Originally identified as cause for the rare but deadly disease botulism, military and terrorist intended to misuse this sophisticated molecule as biological weapon. This caused its classification as select agent category A by the Centers for Diseases Control and Prevention and the listing in the Biological and Toxin Weapons Convention. Later, the civilian use of BoNT as long acting peripheral muscle relaxant has turned this molecule into an indispensable pharmaceutical world wide with annual revenues >$1.5 billion. Also basic scientists value the botulinum neurotoxin as molecular tool for dissecting mechanisms of exocytosis. This book will cover the most recent molecular details of botulinum neurotoxin,
its mechanism of action as well as its detection and application.

Revision Total Hip Arthroplasty

Antibiotic Materials in Healthcare provides significant information on antibiotic related issues, accurate solutions, and recent investigative information for health-related applications. In addition, the book addresses the design and development of antibiotics with advanced (physical, chemical and biological) properties, an analysis of materials, in vivo and in vitro applications, and their biomedical applications for healthcare. Provides information on all aspects of antibiotic related issues Offers a balanced synthesis of basic and clinical science for each individual case, presenting clinical courses and detailed microbiological information for each infection Describes the prevalence and incidence of global issues and current therapeutic approaches

The Resonant Recognition Model of Macromolecular Bioactivity

Although hip, knee and other orthopaedic implants are well-established prostheses, much remains to be understood about how these implants wear in use. This important book summarises the wealth of recent research in this area and its implications for implant and joint design. After an introductory overview, the book reviews the causes and prevention of implant wear. Part one discusses fundamental issues such as tissue response to wear, the anatomy and biomechanics of hips and knees as well as the materials and design issues they raise for hip, knee and other types of orthopaedic implant. Part two considers wear phenomena in a range of materials, including ultra-high molecular weight (UHMWPE), metal and ceramic joints. It also covers surgical and other factors influencing wear as well as ways of detecting, analysing and predicting implant wear and failure. With its distinguished editor and international team of contributors, Wear of orthopaedic implants and artificial joints is a standard reference for implant manufacturers, surgeons and those researching this important area. Summarises the wealth of recent research into the wear of orthopaedic implants and artificial joints and discusses the implications for implant and joint design Reviews the causes and prevention of implant wear, tissue response to wear, the anatomy and biomechanics of hips and knees and the materials and design issues they raise for orthopaedic implants Considers wear phenomena in a range of materials, including ultra-high molecular weight (UHMWPE), metal and ceramic joints

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