

lan D. Learmonth (Ed.)

Interfaces in Total Hip Arthroplasty



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Interfaces In Total Hip Arthroplasty

Jianjun Gao

Interfaces In Total Hip Arthroplasty:

Interfaces in Total Hip Arthroplasty Ian D. Learmouth,2000 Total hip arthroplasty is carried out to relieve pain and restore function and the implant should outlast the patient However failure at one of the interfaces represents the commonest cause of failure of total hip replacement The durability of the fixation interfaces and the articular interface are therefore critical in determining the long term performance of the implant This book accesses the opinions of a number of experts in their field on the important issues and factors influencing the component cement and bone cement interface that contribute to durability of fixation in these areas In addition they explore how this fixation can be influenced both by the design of the implant the material properties and the cement The various material combinations that are available at the articular interface are also presented and the wear properties of and generation of debris from the interfaces are revealed

Interfaces in Total Hip Arthroplasty Ian D. Learmonth,2011-11-08 This book incorporates the experience of numerous experts who explore contemporary opinion of how best to rationalise and optimise the interfaces at total hip replacement to provide the most favourable and durable results The survival of a total hip replacement depends principally on the enduring integrity of the fixation interfaces and of the articular interface The design of the stem and the material properties of cement largely determine the state of the component cement inter face while the bone cement interface is significantly influenced by both mechanical and biological factors The surface finish and shape of cementless implants are designed to preserve the integrity of biological fixation osseo integration at the bone component interface Once again both mechanical and biological factors have to be considered while bioactive coatings accelerate bone ongrowth Metal on polyethylene is the most widely used articular interface However it has been suggested that wear of polyethylene is one of the major factors contributing to failure of total hip replacements The increasing prevalence of total hip replacement in younger patients has stimulated the investigation of alternative more durable couples including ceramic polyethylene ceramic ceramic and metal on metal Modularity provides greater intra operative flexibility but each new modular interface introduces new mechanisms of failure These need to be anticipated and appropriate measures taken to avoid them Hopefully this book will provide a better understanding of the factors that contribute to stable interfaces and long term survival of total hip arthroplasty

Interfaces in Total Hip Arthroplasty Ian D. Learmonth,2012-12-06 This book incorporates the experience of numerous experts who explore contemporary opinion of how best to rationalise and optimise the interfaces at total hip replacement to provide the most favourable and durable results The survival of a total hip replacement depends principally on the enduring integrity of the fixation interfaces and of the articular interface The design of the stem and the material properties of cement largely determine the state of the component cement inter face while the bone cement interface is significantly influenced by both mechanical and biological factors The surface finish and shape of cementless implants are designed to preserve the integrity of biological fixation osseo integration at the bone component interface Once again both mechanical and biological

factors have to be considered while bioactive coatings accelerate bone ongrowth Metal on polyethylene is the most widely used articular interface However it has been suggested that wear of polyethylene is one of the major factors contributing to failure of total hip replacements. The increasing prevalence of total hip replacement in younger patients has stimulated the investigation of alternative more durable couples including ceramic polyethylene ceramic ceramic and metal on metal Modularity provides greater intra operative flexibility but each new modular interface introduces new mechanisms of failure These need to be anticipated and appropriate measures taken to avoid them Hopefully this book will provide a better understanding of the factors that contribute to stable interfaces and long term survival of total hip arthroplasty Well-Cemented Total Hip Arthroplasty Steffen Breusch, Henrik Malchau, 2006-02-08 Cemented Total Hip Arthroplasty THA remains one of the most successful procedures in Orthopaedic surgery It has become very clear that it is the surgical expertise in particular the quality of the cementing technique which will affect long term outcome and success It is the intention of this book to provide an up to date comprehensive assessment of the entire field of cemented THA Special emphasis has been given to practice relevant aspects well illustrated and detailed operative steps as a practical guideline a basic science chapter and long term outcome data are provided Minimally invasive surgery modern perioperative management and patient fast tracking are covered A number of highly respected experts have contributed to this in depth compilation of the state of the art in 2005 This book is written and intended for both trainees and established arthroplasty surgeons who are dedicated to perform a well cemented THA **Bone-Implant Interface in Orthopedic Surgery** Theofilos Karachalios, 2013-11-19 Total joint arthroplasty is an effective surgical procedure for end stage osteoarthritis of major joints with satisfactory long term clinical outcome A large and growing number of arthroplasties are performed annually worldwide and a great number of orthopaedic surgeons are practicing arthroplasty surgery as their main surgical activity The biological behavior of the bone implant interface is crucial for the long term survival of the artificial joint All factors which have a positive or negative effect on the interface are of great interest for those practicing arthroplasty surgery Basic scientists and the industry are continuously searching for new implant fixation mechanisms and improved materials There is an accumulation of a great amount of basic science data both biological material and mechanical related to the incorporation or loosening of the bone implant interface However basic science data does not always translate to satisfactory clinical application and orthopaedic practitioners often wonder which piece of information is clinically useful A further problem is that basic scientists often speak their own scientific language and may not fully appreciate common clinical practice needs In this textbook the biological and mechanical mechanisms of implant incorporation and loosening will be presented All new data concerning materials and methods for incorporation enhancement will be critically analyzed Data useful for clinical application will be stressed Orthopaedic Surgeons will find information which will improve their clinical practice and basic scientists will be helped to understand and appreciate clinical needs **Journal of Rehabilitation**

Research & Development ,1983Journal of Rehabilitation Research and Development ,1986 **Implant Special** Beate Mechanical Testing of Bone and the Fruhstorfer, Fritz Schnitger, 1997 Applied Mechanics Reviews ,1998 Bone-Implant Interface Yuehuei H. An, Robert A. Draughn, 1999-11-29 The mechanical properties of whole bones bone tissue and the bone implant interfaces are as important as their morphological and structural aspects Mechanical Testing of Bone and the Bone Implant Interface helps you assess these properties by explaining how to do mechanical testing of bone and the bone implant interface for bone related research Cumulated Index Medicus ,1983 **Implant Bone Interface** John Older, 2012-12-06 An update on current knowledge is given for surgeons and researchers involved in implant surgery and the development of implant arthroplasty The contributions come from a distinguished international faculty of orthopaedic surgeons biologists and engineers They examine the junctional tissues between an implant and the bone in joint replacement surgery The factors that influence junctional tissues and so affect the life span of the implant are thoroughly discussed These include detailed data on the microscopy of the junctional tissues the mechanical properties of cement and the architecture of bone and implant design The discussions following each contribution give meaningful insight into background information and the controversial aspects of surgical implants Particulate Debris from Medical Implants Kenneth R. St. John, 1992 The proceedings of an October 1990 symposium in San Antonio held to address the problem of the release of particulate material debris from medical implants because of wear physical deterioration or the harsh chemical environment Examines tissue responses to such debris in order to identify factors that might moderate it such as implant material or design or postoperatic drugs Member price 53 Annotation copyrighted by Book News Inc Portland OR Tissue Engineering And Novel Delivery Systems Michael J. Yaszemski, Debra J. Trantolo, Kai-Uwe Lewandrowski, Vasif Hasirci, David E. Altobelli, Donald L. Wise, 2003-11-04 Essential to anyone working in the field this reference focuses on latest advancements in tissue construction repair and regeneration focusing on developments in gene and drug therapy the evolution of tissue engineered products and new technologies for the design of functional tissues and organ systems Veterinary Surgery: Small Animal Expert Consult - E-BOOK Spencer A. Johnston, Karen M. Tobias, 2017-06-14 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Veterinary Medicine Focus on the how and why of medical surgical conditions the critical issues that lead to successful outcomes for your patients with Veterinary Surgery Small Animal Second Edition This two volume full color resource offers an authoritative comprehensive review of disease processes a thorough evaluation of basic clinical science information and in depth discussion of advanced surgeries With an updated Expert Consult website you can access anytime and detailed coverage of surgical procedures it is the definitive reference for surgical specialists practicing veterinarians and residents Expert Consult website offers access to the entire text online plus references linked to original abstracts on PubMed Comprehensive coverage includes surgical biology surgical methods and perioperative care neurosurgery and orthopedics in Volume One and all soft tissue surgery organized by body system in Volume Two Extensive

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bones among other interesting topics treated herein Well known international experts in bioengineering have contributed to the book giving it a unique style and cutting edge material for graduate students academic researchers and design bioengineers as well as those interested in getting a better understanding of such complex and fascinating human and living processes Biomaterials in Orthopedics Michael J. Yaszemski,2003-10-17 Written by respected experts in the field Biomaterials in Orthopedics discusses bioabsorbable biomaterials for bone repair nondegradable materials in orthopaedics and delivery systems Topics in this text include biocompatibility and the biomaterial tissue interface self reinforced bioabsorbable devices and guided regeneration bone substitutes Journal of Rehabilitation R & D ,1986 Encyclopedic Handbook of Biomaterials and Bioengineering: v. 1-2. Applications Donald Lee Wise,1995

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