

Jean-Alain Epinette, Michael T. Manley

# Fifteen Years of Clinical Experience with Hydroxyapatite Coatings in Joint Arthroplasty

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# 15 Years Of Clinical Experience With Hydroxyapatite In Joint Arthroplasty

**Cynthia B. Love**



## **15 Years Of Clinical Experience With Hydroxyapatite In Joint Arthroplasty:**

**The CORAIL® Hip System** Jean-Pierre Vidalain, Tarik Ait Si Selmi, David Beverland, Steve Young, Tim Board, Jens G. Boldt, Scott Andrew Brumby, 2011-06-06 The Corail Hip System was developed in 1986 as an innovative solution for hip arthroplasty and has since become one of the most used hip systems in the world This book is designed as a practical manual to primary and revision arthroplasty that will serve both as a reference for surgeons in training and as a source of information tips and tricks for the more experienced who wish to learn from the cases of other surgeons The book is divided into three main parts The first discusses everything that is practical about the system including the surgical technique treatment of complications and the results achieved in large cohorts of patients The second part is devoted to the important issues of surgical approach bearing options acetabular preparation and cup orientation and fixation The final part focuses on patient management and includes a collection of standard and complex clinical cases to which surgeons can refer when planning surgery

**Surgery of the Hip E-Book** Daniel J. Berry, Jay Lieberman, 2019-09-24 Offering authoritative comprehensive coverage of hip surgery the 2nd Edition of Surgery of the Hip is the definitive guide to hip replacement other open and arthroscopic surgical procedures and surgical and nonsurgical management of the hip across the lifespan Modeled after Insall Scott Surgery of the Knee it keeps you fully up to date with the latest research techniques tools and implants enabling you to offer both adults and children the best possible outcomes Detailed guidance from expert surgeons assists you with your toughest clinical challenges including total hip arthroplasty pediatric hip surgery trauma and hip tumor surgery Discusses new topics such as direct anterior approach for total hip arthroplasty hip pain in the young adult and hip preservation surgery Contains new coverage of minimally invasive procedures bearing surface selection management of complications associated with metal and metal bearing surfaces management of bone loss associated with revision THA and more Provides expert personal advice in Author s Preferred Technique sections Helps you make optimal use of the latest imaging techniques surgical procedures equipment and implants available Covers tumors of the hip hip instability and displacement in infants and young children traumatic injuries degenerative joint disorders and rehabilitation considerations all from both a basic science and practical clinical perspective

**The Adult Hip** John J. Callaghan, Aaron G. Rosenberg, Harry E. Rubash, 2007 Now in its Second Edition this two volume reference is the only current book available that focuses on the adult hip More than 100 chapters by the foremost leaders in hip surgery provide comprehensive coverage of disorders of the adult hip from practical basic science to detailed surgical techniques including hip arthroscopy and developing techniques in minimally invasive surgery More than 2 600 illustrations complement the text This edition has new chapters on minimally invasive surgery of the hip Other new topics covered include use of fiber metal mesh in acetabular revision reconstruction revision press fit Wagner type of stems and implant retrievals

**Calcium Orthophosphates** Sergey V. Dorozhkin, 2012-06-04 Due to a great chemical similarity with the biological calcified tissues many calcium orthophosphates

possess remarkable biocompatibility and bioactivity Materials scientists use this property extensively to construct artificial bone grafts that are either entirely made of or only surface coated with the biologically relevant calcium orthophosphates

Joint Replacement Technology Peter A. Revell, 2008-07-09 Joint replacement has been one of the major successes of modern medicine Its continued success depends on effective collaboration between clinicians and researchers across many different areas in science and medicine This important book brings together the wide range of research in this area and its implications for clinical practice The book sets the scene with introductory chapters on joint biomechanics and tribology materials for joint replacement and their interactions with the body and regulatory issues Part two reviews the use of metals and ceramics as joint replacement materials joint design bone cements and cementless fixation techniques failure mechanisms and ways of predicting the lifetime of replacement joints The third part of the book summarises research on how prosthetic joints interact with the body including biological causes of joint failure sterilisation techniques and the use of drug delivery systems to enhance joint replacement The final group of chapters reviews key issues in replacing particular joints including the hip knee ankle shoulder and elbow as well as developments in intervertebral disc and temporomandibular joint replacement technology With its distinguished editor and international team of contributors Joint replacement technology is a standard reference for the engineering and materials scientific communities as well as surgeons seeking the best treatment for their patients Reviews joint biomechanics and tribology Considers the use of metals and ceramics as joint replacement materials joint design and bone cements Summarises research on prosthetic interaction with the body

**Mercer's Textbook of Orthopaedics and Trauma Tenth edition** Suresh Sivananthan, Eugene Sherry, Patrick Warnke, Mark Miller, 2012-02-24 Highly Commended BMA Medical Book Awards 2013 Orthopaedic problems account for over one third of all medical and surgical problems Mercer's Textbook of Orthopaedics and Trauma provides all the information required by the senior trainee or qualified specialist to improve understanding and management of any given condition or disease in this area See Advances in Calcium Phosphate Biomaterials Besim Ben-Nissan, 2014-04-17

Advances in Calcium Phosphate Biomaterials Besim Ben-Nissan, 2014-04-17 Advances in Calcium Phosphate Biomaterials presents a comprehensive state of the art review of the latest advances in developing calcium phosphate biomaterials and their applications in medicine It covers the fundamental structures synthesis methods characterization methods and the physical and chemical properties of calcium phosphate biomaterials as well as the synthesis and properties of calcium phosphate based biomaterials in regenerative medicine and their clinical applications The book brings together these new concepts mechanisms and methods in contributions by both young and veteran academics clinicians and researchers to forward the knowledge and expertise on calcium phosphate and related materials Accordingly the book not only covers the fundamentals but also opens new avenues for meeting future challenges in research and clinical applications Besim Ben Nissan is a Professor of Chemistry and Forensic Science at the University of Technology Sydney Australia

**Advances in Total Hip Arthroplasty** Yasuharu Nakashima, 2024-11-27 This book provides comprehensive evidence

based surgical principles and techniques for total hip arthroplasty THA covering all aspects of this procedure including the history biomaterials biomechanics surgical techniques and other important issues Beginning with an overview of the hip joint and its anatomy the authors detail the biomechanics of the hip joint in its various states and further discuss the properties of biomaterials in arthroplasty The book describes the principles of surgical technique preoperative planning surgical procedures rehabilitation and management of complications and thoroughly illustrates surgical procedures to enhance the reader's understanding The book also introduces the technical aspects of the procedure including how to deal with difficult cases such as severely deformed cases and how to increase the safe range of motion Advances in Total Hip Arthroplasty is written by a pioneering team of authors in cooperation with the Japanese Society for Replacement Arthroplasty JSRA The book is informative and provides practical tips for THA and academic insights for orthopedic surgeons and residents specializing in arthroplasty The translation was done with the help of an artificial intelligence machine translation tool A subsequent human revision was done primarily in terms of content

**Total Knee Arthroplasty** Theofilos Karachalios, 2015-06-06 This book focuses on the current clinical practice outcome and the future development of Total Knee Arthroplasty TKA in surgical settings A major objective of this work is to address What is the optimal design and fixation of the implants we use for knee arthroplasty reconstruction What are the gold standards and Can we do better In an attempt to throw light on these questions the authors evaluate data from clinical studies and assess various factors which may influence the long term outcome of TKA Many variables such as age severity implant design and surgical techniques for appropriate component placement and soft tissue balancing are explored in great detail by expert surgeons in the field Total Knee Arthroplasty Long Term Outcomes will be a useful resource for recently qualified surgeons in search of an introduction to this topic and for more experienced surgeons seeking an in depth critical review of current practices in TKA [Bioceramics in Joint Arthroplasty](#) Jean-Yves Lazennec, Martin Dietrich, 2012-12-06 The latest scientific and clinical information regarding the use of ceramics in orthopaedic surgery CeramTec has had a long and close relationship with the French orthopaedic community and this community has been an incontestable pioneer in the use of ceramic in this field of orthopaedics That is why the symposium takes place in Paris under the presidency of Professor J Y Lazennec H pital Piti Salp tri re [The Adult Hip](#) Aaron G. Rosenberg, Harry E. Rubash, John Clohisy, Paul Beaulé, Craig DellaValle, 2015-10-13 This two volume set contains comprehensive coverage of management of disorders of the adult hip It includes all arthroscopic and open procedures as well as extensive coverage of equipment and prostheses

**Total Knee Arthroplasty** Alfred J. Tria Jr., Giles R. Scuderi, 2025-09-30 This is the first curated AI literature review on primary and revision total knee arthroplasty technique and technology Selected and introduced by experts in knee surgery it provides a sound summary of the current knowledge base on implant design kinematics imaging surgical approaches and procedures and outcomes The auto summaries have been generated by a recursive clustering algorithm via the Dimensions Auto summarizer by Digital Science handled by

Subject Matter Experts and the editors of this book The editors who provide introductions to each chapter selected which SN content should be auto summarized and decided its order of appearance Please be aware that these are extractive auto summaries which consist of original sentences but are not representative of its original paper since we do not show the full length of the publication Also note that only published SN content is represented here and that machine generated books are still at an experimental stage

**Basics in Hip and Knee Arthroplasty - E-book** Shrinand Vaidya,2017-06-17 Basics in Hip and Knee Arthroplasty is a comprehensive compilation of basic steps to be regimented before during and after primary hip and knee reconstruction in arthritic patients Often this information is scattered and difficult to acquire even after exploring Internet and multiple references It should benefit Fellows beginners and once in a while Arthroplasty Surgeons of hip and knee to plan surgery select correct implant and execute the job to the level of perfection The night before book for the beginners wherein review of literature and other theoretical jargon are avoided Practical surgery tips explained through figures are the forte of this book Contains specialty work from leading authorities in the field like Thomas P Sculco Douglas A Dennis and Javad Parvizi Uses My trolley concept which pictorially explains usage of critical tools to make art of Primary Hip Knee Replacement an enjoyable experience Videos accessible through EEB Shelf App on Radiological Planning in THA Tips and Pearls in THA TKA in Stiff Knee Osteophyctectomy for Varus TKR Varus TKR SMCL Needling Technique Subperiosteal Release of SMCL Cementing in TKA Patellar Resurfacing in TKA Unicompartmental Knee Arthroplasty Rotating Platform TKA Tibial Bumpectomy for Varus TKR Autologous Bone Graft Technique New to this Edition Chapter on Varus Knee Deformities six more Videos and additional pages to accommodate the demand to increase size of some vital Figures which can clarify better

**Cumulated Index Medicus** ,1996 **La prothèse totale de hanche dans tous ses états** Patrice Mertl,2017-11-07 La proth se de hanche dans tous ses tats livre un tat de l art document argument et dresse les perspectives de r flexion sur l arthroplastie de premi re intention en constante volution Toute la d marche de l ouvrage est guid e par la question Que fait le chirurgien confront telle ou telle situation et fait le point sur les diff rents choix que doit faire le chirurgien les voies d abord la planification les proth ses cupules de frottement modes de fixation et diam tre des t tes proth tiques les objectifs m caniques les concepts proth tiques particuliers l environnement de la chirurgie les sp cificit s des proth ses de hanche chez les sujets jeunes et ou actifs Plus de soixante dix auteurs experts reconnus de l arthroplastie de hanche expriment souvent des points de vue diff rents parfois contradictoires mais qui enrichissent consid rablement le sujet

Revision Total Hip Arthroplasty Eric L. Smith,James V. Bono,2025-05-05 Revision total hip arthroplasty THA helps solve the reconstructive challenges facing surgeons today This comprehensive text encompasses the necessary background and foundation for the reader to better understand the principles of revision THA highlighting the preferred techniques and solutions of regional centers across the US that are known for excellence in revision THA Across eleven thematic sections this book presents modern techniques to solve common problems with an emphasis on intra operative and clinical photos The

opening section discusses general considerations and principles of revision THA including the global burden soft tissue balancing and biomechanics and biomaterials The next few sections cover evaluation pre operative planning and surgical exposures then dive into acetabular femoral and trochanteric reconstruction techniques An entire section is dedicated to author preferred techniques for managing instability aseptic loosening periprosthetic infection and fracture corrosion implant failure and more The final sections discuss methods to minimize complications unique considerations and special considerations for revision THA from abductor tears to the role of physical therapy This well illustrated state of the art text will prepare orthopedic surgeons of every level to solve unique and common etiologies of failed THA making this a practical guide for every revision surgeon

**Bioimplants Manufacturing** Abhilash P M,Kishor Kumar Gajrani,Xichun

Luo,2024-09-04 The text covers fundamentals and technological advancements in processing post processing and surface engineering of bioimplant materials It further discusses important topics such as the additive manufacturing of bioimplants the tribological performance of bioimplants and the hybrid and non traditional manufacturing of bioimplants materials The text also presents the latest advancements in intelligent bioimplant manufacturing using artificial intelligence and machine learning This book Offers an in depth understanding of the fundamentals types materials and applications of bioimplants Highlights the effect of processing on microstructure biocompatibility and mechanical behavior of bioimplants Investigates the surface modification methods and tribological performance of bioimplants Discusses additive manufacturing and non traditional manufacturing techniques such as electrical discharge machining and electrochemical machining of bioimplants materials Covers smart technologies such as artificial intelligence and machine learning based intelligent implant manufacturing for Industry 4 0 It is primarily written for senior undergraduate and graduate students and academic researchers in the fields of mechanical engineering biomedical engineering production engineering industrial engineering aerospace engineering and manufacturing engineering

**Bioceramics 13** S. Giannini,A. Moroni,2000-09-06 Proceedings

of the 13th Int Symp on Ceramics in Medicine Bologna Italy 22 26 Nov 2000 *Total Hip Replacement* Cynthia B. Love,1994

**Fifteen Years of Clinical Experience with Hydroxyapatite Coatings in Joint Arthroplasty** Jean-Alain

Epinette,Michael T. Manley,2003-10-08 Ronald J Furlong of the United Kingdom per the short term with this method of biologic fixation formed the first clinical implantation of a hydroxy of total joint implants has withstood the test of time apatite coated HA hip implant in 1985 about 18 Our thanks are due to the authors of chapters in this volume for the effort they made to write and years ago This was followed in 1986 by other HA submit their work to us in a timely fashion These clinical implantations conducted by the ARTRO Group in France and Rudolf Geesink in the Nether authors working in Europe the United States lands Following these pioneers many thousands of Japan and Australia do not all use English as their first language Many made great efforts to provide HA coated hip implants of various designs from us with English language documents Where we various implant manufacturers have been implanted felt the language was unclear we made only those

worldwide by many surgeons at many institutions minor changes needed to facilitate understanding The coating technology has expanded to include the For manuscripts submitted in a language other than revision setting in the hip as well as unicompart English we employed professional interpretation mental knees total knees shoulders and an assort and then made editorial changes if the content was ment of minor joint implants unclear to us



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