

Modularity of Orthopedic Implants (Astm Special Technical Publication// Stp)

Marlowe, Donald E

Modularity Of Orthopedic Implants Astm Special Technical Publication Stp

Mitsuo Niinomi



Modularity Of Orthopedic Implants Astm Special Technical Publication Stp:

Modularity of Orthopedic Implants Donald E. Marlowe, Jack E. Parr, Michael B. Mayor, 1997 **Annual Report of the Office of Science and Technology** Center for Devices and Radiological Health (U.S.). Office of Science and Technology, 1996 **Metals for Biomedical Devices** Mitsuo Niinomi, 2010-03-31 Despite recent advances in medical devices using other materials metallic implants are still one of the most commercially significant sectors of the industry Given the widespread use of metals in medical devices it is vital that the fundamentals and behaviour of this material are understood Metals in biomedical devices reviews the latest techniques in metal processing methods and the behaviour of this important material Initial chapters review the current status and selection of metals for biomedical devices Chapters in part two discuss the mechanical behaviour degradation and testing of metals with specific chapters on corrosion wear testing and biocompatibility of biomaterials Part three covers the processing of metals for biomedical applications with chapters on such topics as forging metals and alloys surface treatment coatings and sterilisation Chapters in the final section discuss clinical applications of metals such as cardiovascular orthopaedic and new generation biomaterials With its distinguished editor and team of expert contributors Metals for biomedical devices is a standard reference for materials scientists researchers and engineers working in the medical devices industry and academia Reviews the latest techniques in metal processing methods including surface treatment and sterilisation Examines metal selection for biomedical devices considering biocompatibility of various metals Assesses mechanical behaviour and testing of metals featuring corrosion fatigue and wear *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 **Medical Device Materials** Sanjay Shrivastava, 2004-01-01 In this proceedings volume professionals from the medical device industry and their suppliers share technological and scientific knowledge as well as insights into the latest innovations The focus is on metallic materials such as titanium alloys Nitinol cobalt chromium alloys stainless steels and noble metals as applied in various medical devices Topics range from orthopedics to orthodontics materials selection to materials characterization **Corrosion** Stephen D. Cramer, 2006 **Subject Guide to Books in Print**, 1991 **Functional Biomaterials** N. Katsube, W. O. Soboyejo, M. Sacks, 2001 There is now a tremendous worldwide interest in functional biomaterials The present book covers the major aspects of the field It is divided into four parts The first section A covers various aspects of joint replacement Section B presents the topic of dental ceramics while Section C describes the microstructural aspects of biomaterials Finally some of the recent innovations in biomechanics are discussed Section D together with some features of bioengineering **Books in Print**, 1991 Forthcoming Books Rose Army, 1997 *Quantitative Characterization and Performance of Porous Implants for Hard Tissue Applications* Jack E. Lemons, 1987 **Retrieval and Analysis of Orthopaedic Implants** Allan Weinstein, Emanuel Horowitz, Arthur W.

Ruff,1977 **Beyond the Implant** William M. Mihalko,Jack E. Lemons,A. Seth Greenwald,Steven M. Kurtz,2018

Orthopaedic Surgeon Modularity Utilization and Surgical Technique Considerations in the Face of Implant Corrosion William M. Mihalko,Marcus C. Ford,John W. Harkess,2015 The use of modular femoral components for total hip arthroplasty THA allows surgeons to adjust leg lengths restore anatomy and improve stability through alterations in femoral offset neck length and version however corrosion fretting and fatigue failure have raised concerns about these implants To determine surgeons opinions and trends regarding the use of modularity in THA during 2013 and 2014 surveys were sent to American Academy of Orthopaedic Surgeons fellows to investigate the use of modularity in THA The survey included questions regarding technique and basic science knowledge of modular components Results from 2013 and 2014 were compared to evaluate trends in modular component use Ninety nine surgeons 2013 and 106 surgeons 2014 responded more than 93 % of whom routinely perform THA More than 50 % of respondents were fellowship trained Most respondents 87 % in both years reported that they had used a modular implant either when absolutely necessary 5 % of time or routinely 50 % of time From 2013 to 2014 the routine use of modular metal metal junction implants decreased head neck neck stem stem body In 2014 a higher percentage of surgeons reported concerns over debris and stem breakage and more chose ceramic heads over metal heads Most respondents reported locking the femoral head with one or more forceful hits When corrosion was noted on the taper during revision cases most surgeons retained the femur while cleaning the taper with either a sponge or bovie scratch pad Some respondents applied a ceramic head with a titanium sleeve between the damaged taper and the new femoral head 94 % of respondents reported cleaning and drying the taper before head insertion These results demonstrate that modular implants are widely used in THA The number of surgeons routinely using modular implants remains high making education regarding debris production and breakage with modular stems a necessity

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