

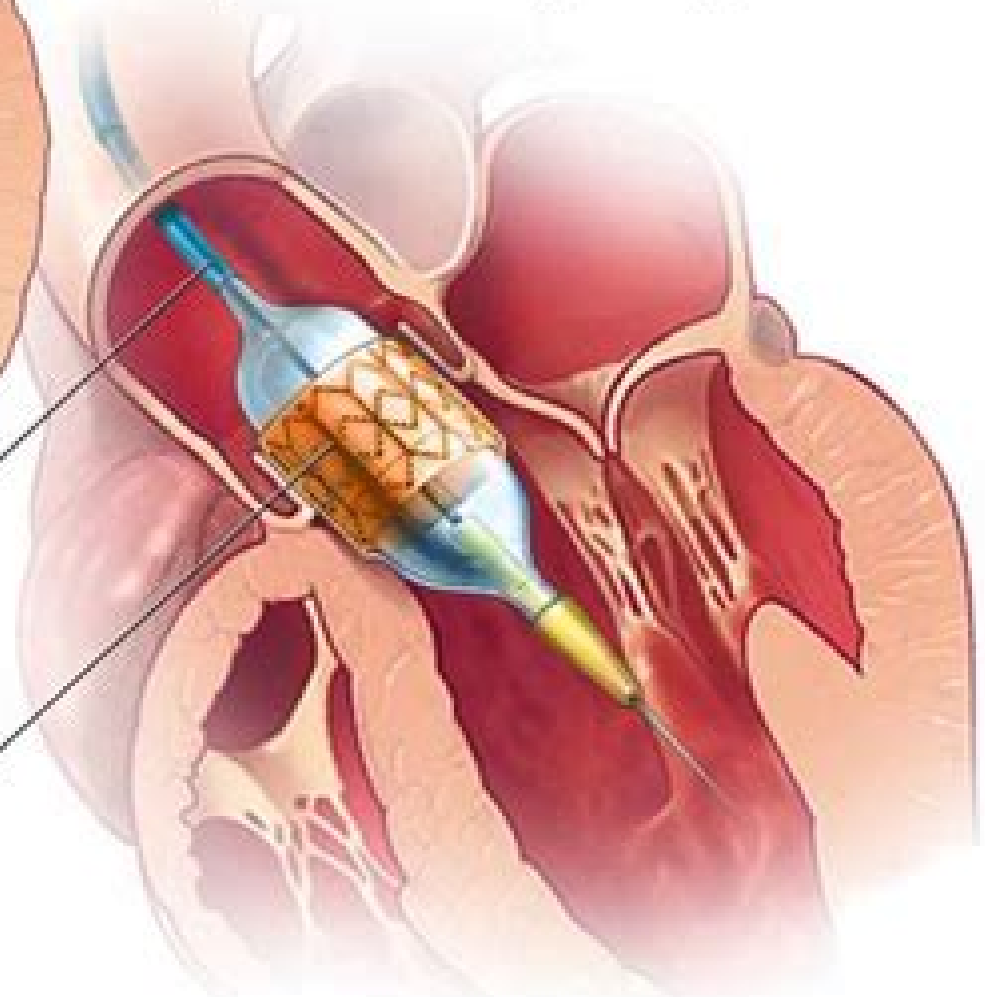
# Aortic valve stenosis

## Transcatheter aortic valve replacement (TAVR)



Catheter with  
balloon

Replacement  
valve



# Replacement Cardiac Valves

**Gaetano Thiene, Cristina  
Basso, Stefania Rizzo, Mila Della  
Barbera, Marialuisa Valente, Uberto  
Bortolotti**

## **Replacement Cardiac Valves:**

**Replacement Cardiac Valves** Endre Bodnar, Robert Frater, 1991      Indications for Heart Valve Replacement by Age Group Carlos Gomez-Duran, George J. Reul Jr., 2012-12-06 The papers presented at the Fifth International Symposium on Heart Valves and published in this volume discuss clinical experience with heart valve replacement in pediatric patients in adults age 65 and younger and in the elderly age 66 and older Special considerations in heart valve replacement such as valve selection reoperation results of double valve implantation quality of life and the use of valved conduits are also included Finally long term clinical follow up with the ST JUDE MEDICAL heart valve giving 7 and 8 year data is discussed HEART VALVE REPLACEMENT IN PEDIATRIC PATIENTS Anticoagulation Anticoagulation in children is a difficult and interesting problem Three principal considerations in the use of anticoagulants are patient education timing and anticoagulating substance Additional considerations are patient tolerance and compliance Generally the findings indicate if pediatric patients receive anticoagulation following mechanical valve replacement it is well accepted and results in few complications If children are not anticoagulated complications arise Conflicting results regarding the efficacy of PERSANTINE and the use of aspirin vs COUMADIN were reported Doctor Sade's data address some of these questions After a 5 year study in See J Thorac Cardiovasc Surgery 1988 95 533 561      Update in Heart Valve Replacement D. Horstkotte, F. Loogen, 2013-04-17

*Pathology of Heart Valve Replacement* A.G. Rose, 2012-12-06 Dr Rose honoured me with a request for a Foreword I am delighted to oblige The treatment of valvular heart disease has improved remarkably in the past 40 years Many factors have contributed not least being the introduction of artificial heart valves for treatment more than 25 years ago Their use has shown that they are good but not an ideal substitute for native valves A galaxy of pathological changes are associated with the insertion and malfunction of artificial heart valves Each has to be defined classified and related to clinical procedures or problems with a prosthesis then a means sought to prevent them Often in understanding their cause investigative procedures have will improve patient care and broaden knowledge in other spheres Dr Rose has been a student of this pathology for many years and has made many contributions No doubt his interest in the area was whetted by colleagues in Cape Town leaders in the field of cardiovascular medicine and surgery This monograph provides a collected review of his experience In it one finds lessons in geographic pathology in considering the causes of valvular heart disease in Cape Town and valuable information regarding the identification of artificial heart valves and a means of examining a heart bearing one      **Guide to**

**Prosthetic Cardiac Valves** Dryden Morse, Robert M. Steiner, Javier Fernandez, 2012-12-06 We are entering an especially prolific era in reporting and publishing clinical experiences with cardiac valve replacement A voluminous literature on this subject is already in existence emanating from clinicians surgeons bioengineers and other scientists Additionally information presented at heart valve symposia in the form of bound collections reaches the shelves of the medical book stores every year This activity reflects the dynamic state of cardiac valve technology highlighted by the introduction each year of new valve

designs that often utilize new materials As a result the authors recognized the need to update their book *The Pacemaker and Valve Identification Guide* separating the contents into two volumes dealing with pacemakers and cardiac valve technology For this *Guide to Prosthetic Cardiac Valves* we have gathered a group of recognized authorities in the field all of whom have contributed in depth analysis in their areas of expertise New material dealing with the preoperative and postoperative care of the heart valve patient pathology of cardiac valves bioengineering problems of cardiac valve technology and separate chapters on valve implantation in children and ultra sonography have been added Chapter 3 *The Radiology of Prosthetic Heart Valves* we feel will be particularly helpful to the physician in identifying a prosthetic valve and revealing the most likely complications Chapter 10 is an atlas with descriptions to supply the reader with the essential features of the various prostheses when he or she is faced with a new patient bearing an implanted cardiac valve

**Heart Valves** Paul A. Iaizzo, Tinen L. Iles, Massimo Griselli, James D. St. Louis, 2023-06-08 This state of the art handbook is dedicated to cardiac valve anatomy models for testing and research methods clinical trials and clinical needs and applications In this new edition chapters are updated with the latest research in addition to new chapters on complex repair of CHD requiring conduits new trends for valve replacement like the Ozaki procedure as well as complex procedures in TAV SAV HARPOON and BASILICA with case studies for each type of procedure This volume serves as a helpful reference for patients educators students device designers and developers clinical study specialists clinicians and other associated healthcare providers

**Cardiac Valve Replacement** Jack M. Matloff, 2012-12-06 *Cardiac Valve Replacement Current Status* is the proceedings of the Fourth International Symposium on the ST JUDE MEDICAL valve The first three symposia on this topic were held primarily for designated investigators involved in clinical trials of the ST JUDE MEDICAL valve The last meeting chaired by Michael E DeBakey M D was held in November 1982 1 immediately before the valve was released for general clinical use in the United States by the Food and Drug Administration These proceedings then are the first comprehensive compilation of clinical data since that time and they include particularly in the discussions the experience of physicians other than the original clinical investigators Over the past 5 years the character of these symposia has changed Whereas the first two dealt almost entirely with the ST JUDE MEDICAL valve the last two have evolved into a more generic cardiac valvular surgery meeting focusing primarily on valve replacement rather than valve repair 2 Thus these proceedings contain a wide spectrum of topics including a keynote presentation on criteria for selection of cardiac valve substitutes in 1984 complications of cardiac valve replacement and their treatment a review of the current status of cardiac valve substitutes other than the ST JUDE MEDICAL valve and a consideration of cardiac valve replacement in special circumstances Among these special circumstances are four presentations on pediatric use of the ST JUDE MEDICAL valve

**Replacement Cardiac Valves** Endre Bodnar, Robert William Mayo Frater, 1991

**Tissue Heart Valves** Marian I. Ionescu, 1979 *Cardiac Valve Allografts* A. Charles Yankah, M.H. Yacoub, Roland Hetzer, 2012-12-06 *CARDIAC VALVE ALLOGRAFTS HOMOGRAFTS* highlights the current

controversy about freehand subcoronary aortic valve and root replacement with regard to postoperative morbidity and long term durability It discusses particular implantation techniques of preference in young patients and in different root pathology Other chapters address intermediate and long term results on cardiac valve and vascular homografts for treating complicating cardiac valve and aortic infections The chapter on basic science additionally makes this book a highly authoritative reference source for cardiac surgeons physicians and scientists This work provides a current survey of the state of the art

**Advancing the Technology of Bileaflet Mechanical Heart Valves** A. Krian, J.M. Matloff, D.M. Nicoloff, 2012-12-06

Over the past 15 years mechanical valves and in particular bileaflet mechanical valves have made considerable strides in durability and hemodynamic performance However biocompatibility in terms of thrombo embolism thrombosis and hemolysis has remained an area where improvement is needed New Development in Bileaflet Mechanical Heart Valve discusses advances in these important areas of prosthetic valve function and provides clinical experience with a new open pivot bileaflet mechanical valve

**Percutaneous Heart Valve Replacement** U. S. Department of Health and Human Services, Agency for Healthcare Research and Quality, 2013-05-06

As the proportion of older adults increases in the U S population the prevalence of degenerative heart valve disease is also increasing Calcific aortic stenosis narrowing and ischemic and degenerative mitral regurgitation leakage are the most common valvular disorders in adults aged 70 years and older For patients with severe valve disease heart valve replacement involving open heart surgery can improve functional status and quality of life A variety of conventional mechanical and bioprosthetic heart valves are readily available However some individuals are considered too high risk for open heart surgery These patients may benefit from a less invasive procedure Percutaneous heart valve replacement is a relatively new interventional procedure involving the insertion of an artificial heart valve using a catheter rather than through open heart surgery The portal of entry is typically either via the femoral vein or artery or directly through the myocardium via the apical region of the heart An expandable prosthetic heart valve is delivered and deployed at the site of the diseased native valve The percutaneous heart valve replacement procedure usually takes less time to perform and is less invasive than open heart surgery The Agency for Healthcare Research and Quality AHRQ has commissioned this Technical Brief to Describe the types of conventional and percutaneous heart valves now in use or in development and their theoretical advantages and disadvantages for different patient populations Describe the literature comparing various types of conventional heart valves in adults and determine whether a systematic review of this literature is feasible and needed Describe the literature evaluating percutaneous heart valves in adults including the patient populations and major outcomes studied to date Describe implantation techniques for percutaneous heart valves and the factors associated with surgery or setting that may impact outcomes The research team further clarified and refined the overall research objectives and the key questions The key questions addressed are as follows Question 1 What are the different types of heart valves in use and in development including tissue mechanical and percutaneous valves a What are the

existing or potential U S Food and Drug Administration FDA indications for each valve patient characteristics etc b What are the theoretical advantages and disadvantages of different valves for different patient populations Question 2 From a systematic literature scan of studies on different types of tissue and mechanical valves describe the types of comparative studies including basic study design size of study length of followup and outcomes assessed This literature scan will provide data to determine if a systematic review of this literature is possible and needed and to provide needed context for understanding the evaluation and development of percutaneous heart valves Question 3 From a systematic literature scan of studies on different types of percutaneous heart valves provide a synthesis of the following variables a Number for each type of valve b Type of studies comparative and non comparative randomized controlled trials RCTs non randomized controlled clinical trials case series etc c Variables associated with surgery implantation technique setting etc d Size of studies length of followup e Patient population concurrent and prior treatments f Hemodynamic success rates reported g Harms reported Question 4 What are the variables associated with surgery or setting that may impact outcomes for percutaneous heart valves a What are the different implantation techniques i e position of implantation delivery and axis techniques What is the evidence of success i e absence of narrowing and regurgitation and harms i For percutaneous aortic valves ii For percutaneous mitral valves

*Cardiac Valve Allografts 1962-1987* A.C. Yankah,R. Hetzer,C. Miller,D.N. Ross,J. Somerville,M.H. Yacoub,2012-12-06 It was the genius of Gordon Murray in Toronto that introduced the use of allografts into cardiac surgery in the 1950s Soon after this on opposite sides of the world Sir Brian Barratt Boyes in Auckland New Zealand and Mr Donald Ross in London undertook to use allografts for the replacement of diseased aortic valves Since that time the global interest in allografts has been patchy episodic and without a consensus Nonetheless for the last 20 years at least three groups in the world have steadfastly pursued the development of new and relevant information concerning the use of allograft valves in humans These are the centres of Sir Brian Barratt Boyes Mr Donald Ross and Mark O'Brien in Brisbane More recently talented investigators including Drs Yankah Yacoub and others have been developing information concerning the immunological aspects of the use of allografts as well as their clinical use No doubt at present cardiac valve allografts of one sort or another are the devices of choice for conduits and have an important place in the surgery of aortic valve replacement Even so in the mind of this writer at least the future usefulness of allografts for the replacement of diseased cardiac valves and conduits between a ventricle and the pulmonary artery remains problematic and depends upon improvements in other devices for this purpose and upon improvements that may be made in preparing and using allografts

*Heart Valve Replacement and Reconstruction* Peter J. K. Starek,1987      **Cumulated Index Medicus** ,1974

Pathology of Cardiac Valve Disease Gaetano Thiene,Cristina Basso,Stefania Rizzo,Mila Della Barbera,Marialuisa Valente,Uberto Bortolotti,2023-09-30 Cardiac valve diseases are a major cause of morbidity and mortality around the globe In third world countries inflammatory rheumatic valve disease in the young represents an endemic calamity while in Western

countries degenerative valve diseases like senile calcific aortic stenosis and mitral valve prolapse as a result of mucoid degeneration with incompetence are major causes of death in adults the elderly Since the 1960s surgical valve replacement has been the only treatment option requiring sternotomy cardiopulmonary bypass and cardiac arrest Permanent anticoagulation for mechanical valves and the limited durability of biological valves constituted significant drawbacks moreover these surgeries often requires surgical replacement The cardiac registry at the University of Padua Italy has gathered more than twelve hundred cases of failed prosthetic valves offering a unique resource for teaching and research Conservative valve repair using minimally invasive technique showed that replacement of the native valve with sternotomy can be spared Moreover in the last decade venous or arterial approaches like TAVI were developed Presenting the essential surgical and interventional anatomy and pathology in detail this book offers a valuable tool for cardiologists cardiac surgeons and pathologists as well as people in training and scientists working in the field of medical devices and biological compatibility

Cardiovascular Pathology L. Maximilian Buja, Jagdish Butany, 2022-01-22 Cardiovascular Pathology Fifth Edition provides a comprehensive treatise on the pathology of cardiovascular diseases combining presentations of detailed pathology of cardiovascular diseases coupled with contemporary insights into etiology and pathogenesis Twenty two chapters cover general topics including cardiovascular genetics heart failure and transplantation and specific congenital and acquired cardiovascular diseases therapeutic interventions and forensic aspects New chapters address the scope of practice and training in cardiovascular pathology with a focus on major diagnostic approaches used in contemporary practice and research in cardiovascular pathology and a perspective on the field of cardiovascular regenerative medicine linked to the basic pathobiology of cell based therapy The book provides a unique combination of details of pathological anatomy essential for pathologists involved in the evaluation of cardiovascular specimens and cardiovascular diseases and is an excellent reference for anyone interested in the natural history and therapeutic advances in the cardiovascular field Includes expanded coverage of diagnostic guidelines standards and normal values Provides a summary of cardiac catheterization laboratory and diagnostic imaging tests to guide pathologists in clinicopathological correlation Presents a contemporary all inclusive guide to cardiovascular pathology for clinicians and researchers as well as clinical residents and fellows in pathology cardiology cardiac surgery and internal medicine Provides comprehensive coverage including when appropriate Central Concept Figure Definition Epidemiology Clinical Presentation Pathogenesis Molecular Genetics Light and Electron Microscopy Immunohistochemistry Differential Diagnosis Treatment and Potential Complications and a Bulleted Summary

**Diseases of the Cardiac Valves** Roger John Colchester Hall, Desmond Gareth Julian, 1989

**Heart Valves—Advances in Research and Application: 2013 Edition**, 2013-06-21 Heart Valves Advances in Research and Application 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Pulmonary Valve The editors have built Heart Valves Advances in Research and Application 2013 Edition on the vast information databases of

ScholarlyNews You can expect the information about Pulmonary Valve in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Heart Valves Advances in Research and Application 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

**Characterization of Biomaterials** Ming H. Wu,Hengchu Cao,2013-03-12 The cardiovascular system consists of the heart and the vasculature The physiology of the system is to circulate blood through the vasculature ensuring delivery of oxygen and vital nutrients to cells and organs in the body Consequences of diseases disrupting normal cardiovascular function can be severe or fatal Recent advancements in cardiovascular medicine have contributed significantly to improving life span and quality for patients by restoring normal cardiovascular function through the use of implantable devices Examples of these cardiovascular implantable devices include endovascular stents embolic protection devices and filters closure devices heart valve prostheses cardiac rhythm management devices such as pacemakers and defibrillators and left ventricular assist devices The main objective of this chapter is to provide an overview of device test methods commonly used in the development process from concept to commercialization of implantable cardiovascular devices It is recognized that general device testing methodology and understanding for developing these cardiovascular devices can be extended to other devices as well as new product concepts under development Developments of new medical devices are closely regulated by regulatory agencies U S and international regulatory requirements for medical devices and drugs provide specific guidance for bench top in vitro testing in vivo animal study clinical research manufacturing sterilization and post market surveillance for various device categories Implantable cardiovascular devices generally fall within the Class II and Class III categories Commercialization of these products in the United States requires FDA s Premarket Notifications 510Ks Premarket Approvals PMAs or Exemptions The design control element in the new product development procedure requires detailed documentation of design inputs and outputs as well as rational design verification through testing to ensure device functions and safety Notably implantable cardiovascular devices are subjected to very high safety expectation The inability to perform periodic inspection and repair after device implantation also means that the statistical reliability and safety for these devices must be well established and verified prior to clinical uses To facilitate discussions a brief overview of the cardiovascular anatomy and physiology is provided in the beginning of this chapter Following this overview are sections reviewing exemplary implantable devices used for treating various cardiovascular disorders The majority of this chapter is then devoted to descriptions of necessary engineering characterizations and design verification test methods most relevant to developing cardiovascular devices for commercialization Particular emphasis is placed on the attributes that are significantly affected by the biomaterials used in



the designs These include physical properties such as the transformation temperatures for nitinol self expanding devices mechanical properties structure integrity and durability corrosion risk assessment as well as functional testing In addition biocompatibility testing refers to a battery of testing used to evaluate the biological reaction of the human body to the implanted device There is a well recognized ISO standard that governs the specific test protocol requirements ISO 10993 Safety evaluation studies in vitro and in vivo are conducted on a variety of biomaterials medical devices and related products to identify the presence of toxins or any other potentially harmful effects Common assessments of device imaging are also briefly described These include radiopacity as well as magnetic resonance imaging MRI safety and compatibility

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