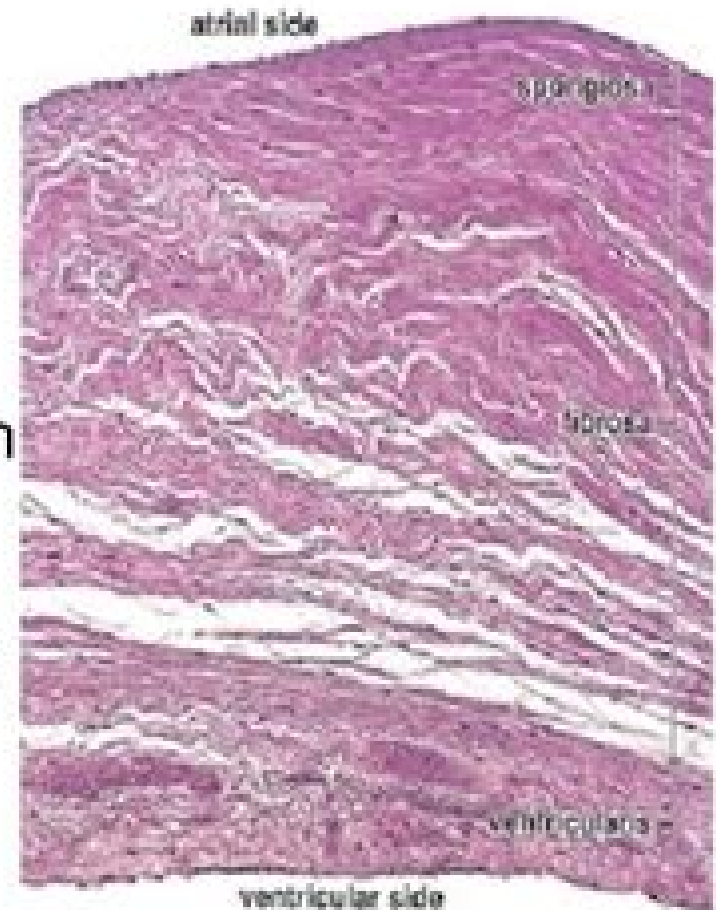


# Cardiac Valves

- 4 valves
  - 2 AV (mitral and tricuspid) in the chambers
  - 2 semilunar (aortic /pulmonary)
- Composed of connective tissue layers covered by endothelium on each side; 3 layers
  - Spongiosa: loose collagen
  - Fibrosa: dense core of connective tissue
  - Ventricularis: dense connective tissue with many elastic and collagen fibers



# Pathology Of Cardiac Valves

**Selian Neuhof**



## **Pathology Of Cardiac Valves:**

**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 *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 *Pathology of Cardiac Valves* M. J. Davies,1980-01-01 *Cardiac Pathology* S. Kim Suvarna,2019-11-11 This updated second edition provides a comprehensive overview of cardiac pathology Clear illustrations of the common styles of dissection are provided along with the normal anatomy and histology The chapters cover autopsy heart examination ischemic heart disease myocarditis sudden death valvular disease transplant pathology cardiomyopathy cardiac neoplasia and congenital heart disease with a clear analysis of diagnostic criteria macroscopic microscopic and genetic for both common cardiac diseases and those of less

common types The text is accompanied by high quality macroscopic and microscopic images and references to other specialty data sources Cardiac Pathology A Guide to Current Practice is aimed at established pathologists and trainees as well as any clinician with an interest in cardiac disease It will be of value to those working in cardiac surgery cardiology and those in the autopsy forensic fields Pathophysiology, Evaluation and Management of Valvular Heart Diseases J. S. Borer,O. W. Isom,2002-07 Diseased heart valves are a growing public health concern ranging among the most important causes of heart failure and sudden death This volume reviews the most current information on valvular disease pathophysiology epidemiology and evaluation as well as management strategies for affected patients Topics discussed include data supporting selection of asymptomatic patients for valve surgery methods employed in evaluating patients for this purpose surgical methods and valve prostheses currently applied for valve repair and replacement and criteria for selecting among them Adjunctive problems such as aortic root disease infective endocarditis and arrhythmias that may modify patient management are also considered Epidemiologic data illustrate the increasing prevalence of valvular disease in the population In addition the book reviews new and emerging knowledge about the molecular and cellular basis of myocardial dysfunction and heart failure in various forms of valvular disease and new information about the potential roles of alternative medicine blood conservation and minimally invasive surgical techniques A particular highlight is a debate between paired chapters on the appropriateness of mitral valve surgery for patients with less than severe mitral regurgitation of ischemic etiology Compiling the most up to date and authoritative information in the field this book will be of great value not only to cardiologists and cardiac surgeons but also to medical students medical and surgical residents cardiology and cardiac surgery fellows and general internists **Current Concepts in Cardiovascular Pathology, An Issue of Surgical Pathology Clinics** Gayle L. Winters,2012-06-28 Clinically accessible information for pathologists on histology differential diagnosis and clinical overview is presented Topics in this subject on Cardiovascular Pathology include Examination of the Explanted Autopsy Heart Native Valves Prosthetic Valves Cardiac Transplant Biopsies Diagnostic Native Heart Biopsies Aorta Temporal Arteritis Vasculitis Vascular Lesions Cardiac Tumors and Cardiac Devices Each article presents Key Considerations Pitfalls of working with the particular entity Differential Diagnosis summaries Gross and histologic features with clinicopathologic correlates Complications Technical considerations Post transplant biopsy findings where relevant and Communicating results **Pathophysiology, Evaluation and Management of Valvular Heart Disease** Jeffrey S. Borer,O. Wayne Isom,Cornell University. Howard Gilman Institute for Valvular Heart Diseases,2002-01-01 Diseased heart valves are a growing public health concern ranging among the most important causes of heart failure and sudden death This volume reviews the most current information on valvular disease pathophysiology epidemiology and evaluation as well as management strategies for affected patients Topics discussed include data supporting selection of asymptomatic patients for valve surgery methods employed in evaluating patients for this purpose surgical methods and

valve prostheses currently applied for valve repair and replacement and criteria for selecting among them Adjunctive problems such as aortic root disease infective endocarditis and arrhythmias that may modify patient management are also considered Epidemiologic data illustrate the increasing prevalence of valvular disease in the population In addition the book reviews new and emerging knowledge about the molecular and cellular basis of myocardial dysfunction and heart failure in various forms of valvular disease and new information about the potential roles of alternative medicine blood conservation and minimally invasive surgical techniques A particular highlight is a debate between paired chapters on the appropriateness of mitral valve surgery for patients with less than severe mitral regurgitation of ischemic etiology Compiling the most up to date and authoritative information in the field this book will be of great value not only to cardiologists and cardiac surgeons but also to medical students medical and surgical residents cardiology and cardiac surgery fellows and general internists

**Cardiac Pathology** Simon Suvarna,2012-08-04 Cardiac disorders are an exciting area of classic pathology and recently defined disease Cardiac Pathology A Guide to Current Practice discusses the various disorders and also provides a backdrop of developmental embryology diagnostic imaging and current therapeutics Cardiac Pathology A Guide to Current Practice aims to deliver in bench book format a comprehensive overview of cardiac pathology that is relevant to those practicing in surgical pathology and autopsy arenas Clear illustrations of the common styles of dissection are provided along with the normal anatomy and histology Chapters cover the approach to the autopsy heart ischemic heart disease myocarditis sudden death valvular disease transplant pathology cardiomyopathy cardiac neoplasia and congenital heart disease with a clear analysis of diagnostic criteria macroscopic microscopic and genetic for both common cardiac diseases and those of rare format The text is accompanied by high quality macroscopic and microscopic images and references to other in depth specialty data sources Although aimed in particular at pathologists Cardiac Pathology A Guide to Current Practice should also be of value to cardiologists cardiothoracic surgeons and other professions allied to medicine **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

**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

**Pathophysiology, Evaluation and Management of Valvular Heart Diseases** Jeffrey S. Borer, O. Wayne Isom, 2004-01-01 Written by faculty members of the international symposium Valves in the Heart of the Big Apple Evaluation and Management of Valvular Heart Diseases this book is intended to complement and supplement the first volume published in 2002 While the first volume reviews current information on valvular disease pathophysiology epidemiology and evaluation as well as management strategies for affected patients the current volume covers areas not discussed in the first and updates information on critical prognostication and management issues Topics discussed include the selection of patients for surgery current surgical approaches natural history and management of selected complex congenital abnormalities involving heart valves cellular and molecular pathophysiology of myocardial dysfunction Consideration is also given to prognostication strategies and results as well as technical approaches to measuring disease characteristics Providing a comprehensive overview of contemporary thinking about valvular heart diseases this book will be of great value not only to cardiologists and cardiac surgeons but also to medical

students medical and surgical residents cardiology and cardiac surgery fellows and general internists *Pathology of the Heart and Great Vessels* Bruce Frank Waller, 1988 A text covering improvements in cardiovascular surgical techniques intended to help the surgical pathologist explore the cause and nature of heart and blood vessel diseases Native and prosthetic valves transplanted hearts endomyocardial biopsies and cardiac tumours are covered *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 **McCance & Huether's Pathophysiology - E-Book** Julia Rogers, 2022-08-03 NEW More than 50 new or revised illustrations visually reinforce pathophysiology concepts NEW Emerging Science boxes highlight the most current research and clinical developments *The Heart; Its Physiology, Pathology and Clinical Aspects* Selian Neuhof, 1923 **Structural Insufficiency Anomalies in Cardiac Valves** Kaan Kirali, 2018 Mitral Valve Insufficiency a Constituent of Left Atrial Myxoma Pathobiology Physiopathology and Pathophysiology of Left Atrial Myxoma Are Long Term Results Still Feasible **Crowley's An Introduction to Human Disease: Pathology and Pathophysiology Correlations** Emily Reisner, Howard Reisner, 2020-12-08 Updated to keep pace with the many changes in the field Crowley's An Introduction to Human Disease Pathology and Pathophysiology Correlations Eleventh Edition provides readers with a clear well illustrated explanation of the structural and functional changes associated with disease the clinical manifestations of disease and how to determine treatment It reflects current information on the pathogenesis of infectious disease and how changes in the genome are expressed as disease The first chapters of the text discuss general concepts and diseases affecting the body as a whole Later chapters consider the various organ systems and their diseases The Eleventh Edition includes new content on COVID 19 Zika virus brain eating amoebas plus mini podcasts to address difficult concepts such as cancer and the use of microscope slides Each new print copy includes Navigate Advantage

Access that unlocks a comprehensive and interactive eBook with animations student practice activi      *Sternberg's Diagnostic Surgical Pathology* Stephen S. Sternberg, Stacey E. Mills, Darryl Carter, 2004 Completely updated the Fourth Edition of this standard setting two volume reference presents the most advanced diagnostic techniques and the latest information on all currently known disease entities More than 90 preeminent surgical pathologists offer expert advice on the diagnostic evaluation of every type of specimen from every anatomic site The Fourth Edition contains 3 494 full color photographs of which over 1 100 are new This edition has three distinguished new editors Joel K Greenson MD Victor E Reuter MD and Mark H Stoler MD and many new contributors Updates include new immunohistochemical markers for lymphoid neoplasms current nomenclature for lymphoid tumors and state of the art molecular genetic tests A bound in CD ROM contains all the images from the book downloadable to PowerPoint presentations      **Underwood's Pathology** Simon S. Cross, 2018-03-09 Underwood's Pathology formerly General and Systematic Pathology is an internationally popular and highly acclaimed textbook written and designed principally for students of medicine and the related health sciences Pathology is presented in the context of modern cellular and molecular biology and contemporary clinical practice After a clear introduction to basic principles it provides comprehensive coverage of disease mechanisms and the pathology of specific disorders ordered by body system An unrivalled collection of clinical photographs histopathology images and graphics complement the clear concise text For this seventh edition the entire book has been revised and updated Well liked features to assist problem based learning including body diagrams annotated with signs symptoms and diseases and a separate index of common clinical problems have been retained and refreshed The advent of whole genome sequencing and increased knowledge of the genetics of disease has been recognised by updated sections in many chapters Download the enhanced eBook version from studentconsult.com for anytime access to the complete contents plus bonus learning materials including clinical case studies to help apply essential principles to modern practice the fully revised interactive self assessment section with over 200 questions and answers to check your understanding and aid exam preparation especially produced video and podcast tutorials to further explain and bring to life key topics bonus pathology crosswords to recall key words and topics in a fun and interactive way This all combines to make Underwood's an unsurpassed learning package in this fascinating and most central medical specialty From reviews of previous editions it truly is an outstanding textbook highly recommended Histopathology no doubt it will remain a bestseller excellent value for undergraduates Journal of Clinical Pathology A book of this kind deserves a wide readership Modern Pathology the definitive textbook of pathology expands on previous success and cements its position as the market leader for undergraduate pathology The Bulletin A prize winner Previous editions have won First Prize in the Medical Writers Group of the Society of Authors Awards the British Book Design and Production Awards and the British Medical Association Student Textbook Award      Underwood's Pathology: a Clinical Approach - E-BOOK Simon S. Cross, 2024-06-25 A thorough understanding of pathology is crucial for doctors and a



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