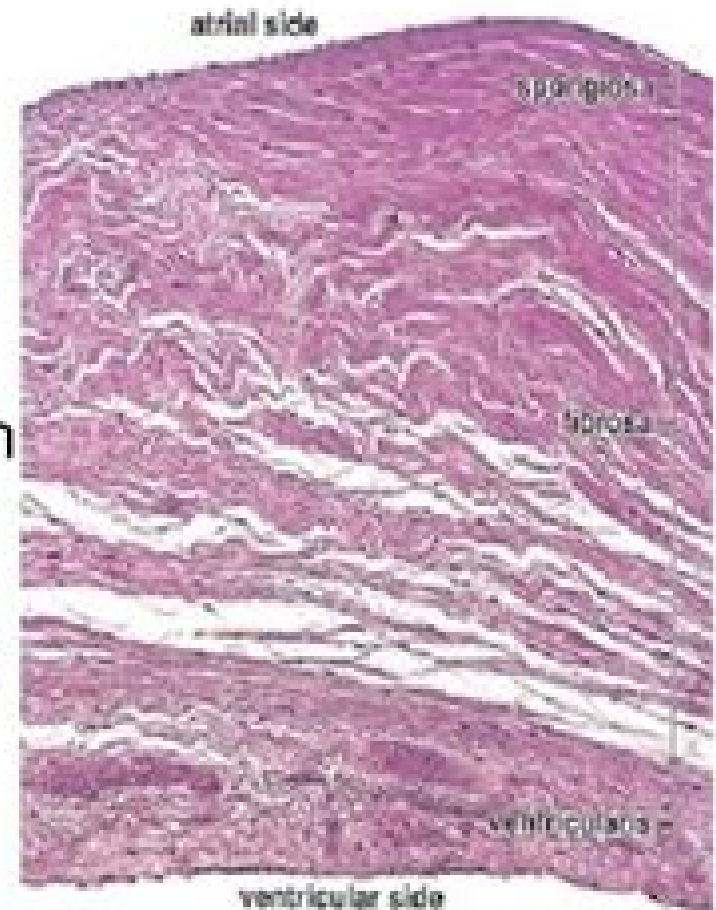


Cardiac Valves

- 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

L. Maximilian Buja, Jagdish Butany



Pathology Of Cardiac Valves:

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 require 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 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 Valves M. J. Davies, 1980-01-01 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

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

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

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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.

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

The Enigmatic Realm of **Pathology Of Cardiac Valves**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Pathology Of Cardiac Valves** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of people who partake in its reading experience.

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