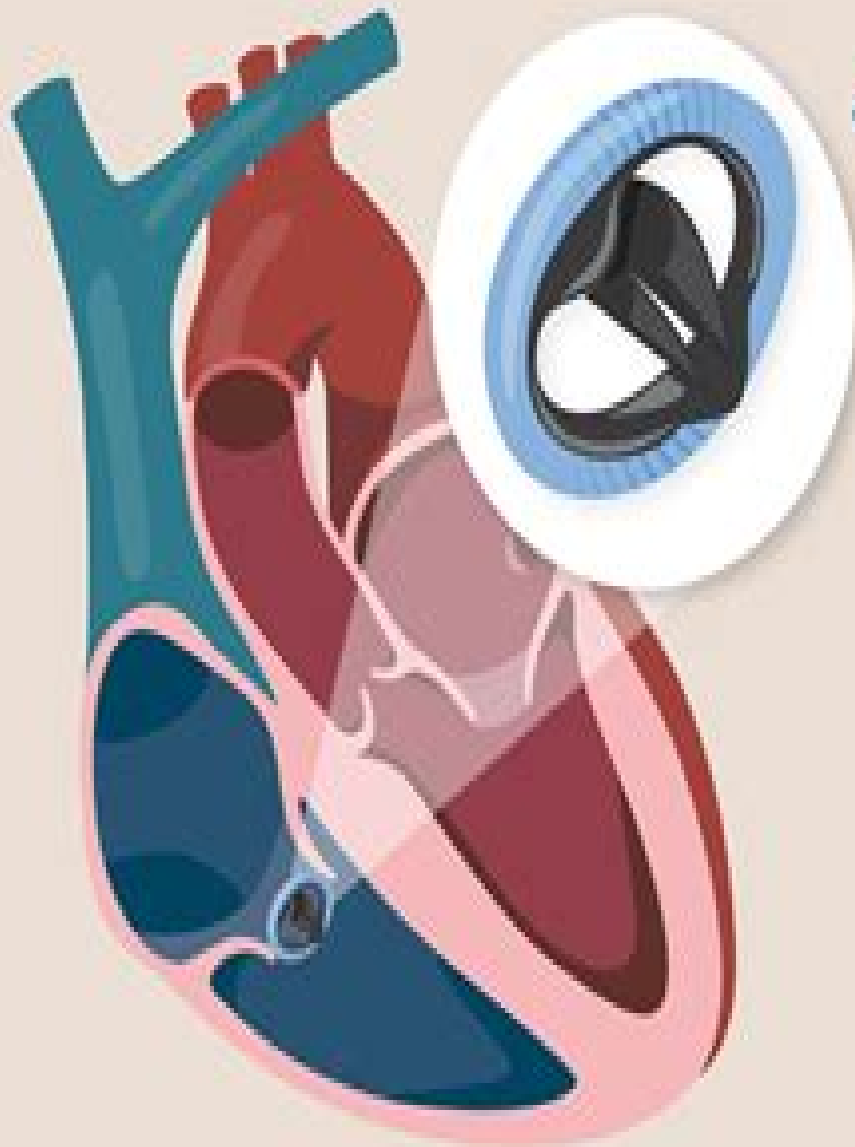
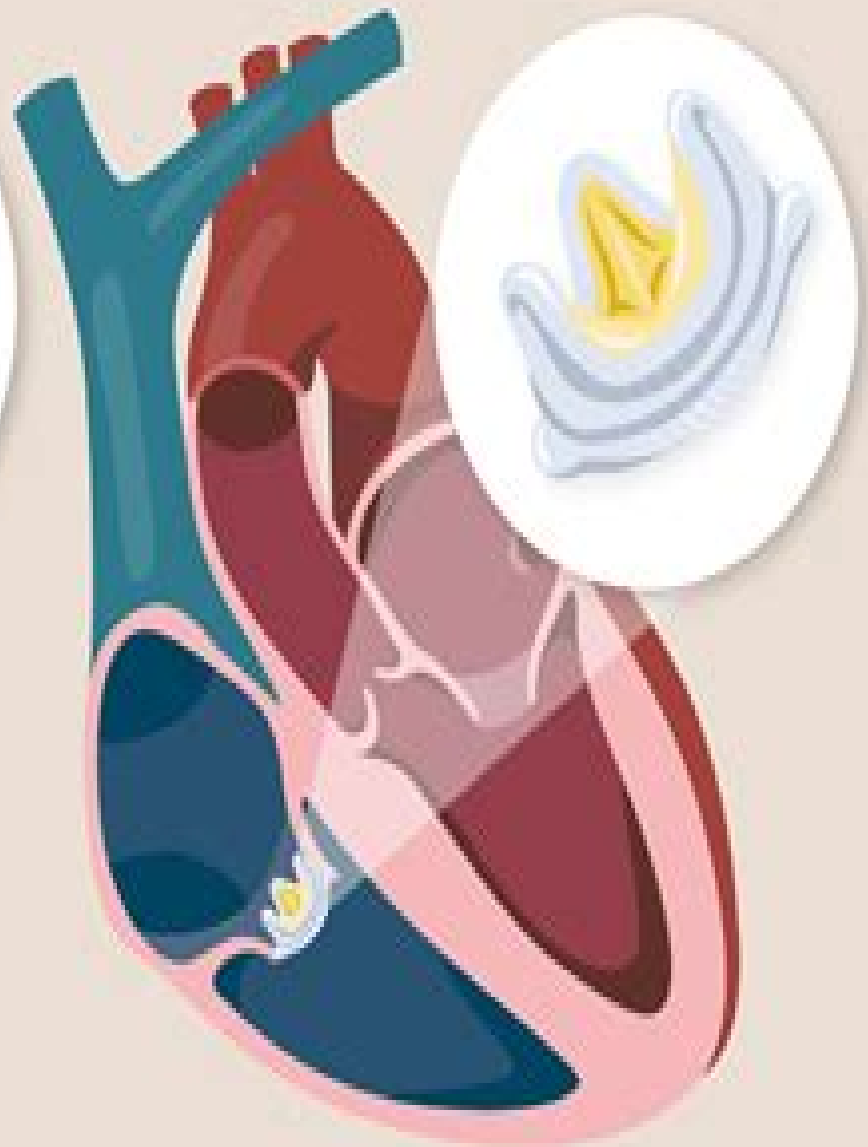


Mechanical valve



Biological valve



# Mitral Valve Repair

**Ted Feldman,Olaf Franzen,Reginald  
Low,Jason Rogers,Khung Keong Yeo**

## **Mitral Valve Repair:**

**Operative Mitral and Tricuspid Valve Surgery** Narain Moorjani, Bushra S. Rana, Francis C. Wells, 2019-01-11 This book reviews the surgical management of the mitral and tricuspid valves. It provides a detailed examination of the recent exponential improvements in the understanding of the pathophysiology of the disease processes affecting these valves which has resulted in significant changes in the strategies that can be applied. Chapters include analysis of the basic sciences related to the anatomy and physiology of the mitral and tricuspid valves, pre-operative imaging of these valves illustrating the variety of pathologies encountered and critically a comprehensive step by step approach to the peri-operative management and surgical techniques pertaining to each pathological process. Operative Mitral and Tricuspid Valve Surgery systematically covers all major topics involved in the current practice of an adult cardiac surgeon who performs operations on the mitral and tricuspid valves. It is therefore suitable for the cardiac intensive care unit specialist interested in improving their knowledge of cardiac patient management. It is an essential resource for all adult cardiac surgeons and cardiac intervention specialists at any stage of their career. Mitral Valve Repair Roland Hetzer, J. Scott Rankin, Charles Abraham Yankah, 2011-05-20 Surgical options for the treatment of degenerative, ischemic, inflammatory and functional mitral valve diseases have expanded greatly in recent decades. Still a dilemma exists with employing prosthetic mitral valves in that mechanical valves exhibit good durability but require anticoagulation versus the unpredictable durability of biological valve prostheses. Over the past few years it has become clear that reconstruction of the mitral valve with autologous tissues effectively addresses this dilemma with no need for anticoagulation and excellent durability combining the best qualities of both prosthetic options without the disadvantages. Moreover, newer repair strategies such as autologous pericardial leaflet augmentation and artificial chordal replacement have expanded reparative approaches into virtually all pathologies with excellent long term results as compared to prosthetic valve replacement. At present mitral repair is becoming the dominant procedure for treatment of virtually all patients with mitral valve disease. This book is designed to illustrate contemporary and sometimes diverse surgical techniques for various types of mitral valve repair with contributions from many of the leaders in the field. Mitral Valve Repair and the recently published Aortic Root Surgery are book publications arising from the Berlin Heart Valve Symposium 2008 entitled The Biological Solution. The Mitral Valve Repair session was postponed to June 2009 and was featured as the Berlin Mitral Valve Symposium at the joint meeting of the Society for Heart Valve Diseases and the Heart Valve Society of America in Berlin. The book contains a collection of proceedings on current techniques and outcomes of mitral valve repair by many of the experts in this field which provide an authoritative reference source for cardiac surgeons, family practitioners and clinicians. **Atlas of Mitral Valve Repair** Edward B. Savage, Steven F. Bolling, 2012-10-09 This full color atlas with accompanying video DVD provides a complete and practical how to guide to planning and performing mitral valve repair surgery for mitral regurgitation. The book reviews the natural history of mitral

regurgitation the functional anatomy of the mitral valve and the use of echocardiography in preoperative evaluation and surgical planning Chapters describe and illustrate all techniques currently used for mitral valve repair and discuss results A bound in DVD presents narrated video clips of six cases that show the application of specific techniques Each case begins with preoperative echocardiograms demonstrating the mitral valve defect and proceeds through key surgical maneuvers

**Mitral Valve Surgery** Robert S. Bonser,Domenico Pagano,Axel Haverich,2010-12-25 Part of the Monographs in Cardiac Surgery Series Introducing basic science into the cardiac operating room Fast systematic review of small areas of cardiac surgery including up to date information This will allow more rapid publication than the alternative cardiac surgery tomes This entry into the series will provide readers with a complete review of the current understanding in mitral valve surgery and include extensive details on the diagnosis and surgical management of patients with mitral valve disease *Atlas of Percutaneous Edge-to-Edge Mitral Valve Repair* Ted Feldman,Olaf Franzen,Reginald Low,Jason Rogers,Khung Keong Yeo,2013-01-09 The field of structural heart disease interventions is experiencing a stage of rapid growth with the development of percutaneous mitral valve repair therapies and percutaneous aortic valve replacement therapies The MitraClip represents a new therapeutic frontier for mitral regurgitation and is expected to revolutionize repair of the mitral valve For the first time in the world physicians now have the capability to repair the mitral valve percutaneously without the need for a sternotomy or cardiopulmonary bypass However as with all new endeavors there is a steep learning curve not just for the individual operator but also for the entire field The MitraClip technology and technique is technically complex and is guided by echocardiography and fluoroscopy It is an imaging intensive procedure that requires deep 3 dimensional understanding of normal and abnormal cardiac anatomy Not all mitral regurgitation cases are suitable and not all cases are straightforward It is therefore crucially important for physicians in this specialty to communicate their experience successes failures and complications with each other Written by the leaders in this breakthrough field the Atlas of Percutaneous Edge to Edge Mitral Valve Repair is the first of its kind for the new percutaneous MitraClip procedure The Editors have designed the book to be a comprehensive reference manual and to provide cardiologists with true examples of basic and complex cases of percutaneous mitral valve repair using the technology In addition this book provides step by step guides to the procedure and complications as well as steps to recover from them are discussed The Atlas is anticipated to be a very valuable reference for both novice and experienced interventional cardiologists and echocardiologists As percutaneous valve repair becomes more common it will also be of great interest to general cardiologists and surgeons **Mitral Valve Repair** Roland Hetzer,J. Scott Rankin,Charles Abraham Yankah,2011-05-20 Surgical options for the treatment of degenerative ischemic inflammatory and functional mitral valve diseases have expanded greatly in recent decades Still a dilemma exists with employing prosthetic mitral valves in that mechanical valves exhibit good durability but require anticoagulation versus the unpredictable durability of biological valve prostheses Over the past few years it has become clear that reconstruction of

the mitral valve with autologous tissues effectively addresses this dilemma with no need for anticoagulation and excellent durability combining the best qualities of both prosthetic options without the disadvantages Moreover newer repair strategies such as autologous pericardial leaflet augmentation and artificial choral replacement have expanded reparative approaches into virtually all pathologies with excellent long term results as compared to prosthetic valve replacement At present mitral repair is becoming the dominant procedure for treatment of virtually all patients with mitral valve disease This book is designed to illustrate contemporary and sometimes diverse surgical techniques for various types of mitral valve repair with contributions from many of the leaders in the field Mitral Valve Repair and the recently published Aortic Root Surgery are book publications arising from the Berlin Heart Valve Symposium 2008 entitled The Biological Solution The Mitral Valve Repair session was postponed to June 2009 and was featured as the Berlin Mitral Valve Symposium at the joint meeting of the Society for Heart Valve Diseases and the Heart Valve Society of America in Berlin The book contains a collection of proceedings on current techniques and outcomes of mitral valve repair by many of the experts in this field which provide an authoritative reference source for cardiac surgeons family practitioners and clinicians Modern Mitral Valve Repair Choi-Keung Ng,2013-06-29 Preoperative and intraoperative echocardiography has become an indispensable tool for guiding mitral valve surgery and has fostered the development of many innovative surgical techniques Mitral valvuloplasty is now an established surgical method for the treatment of mitral insufficiency but the success is largely dependent on the extent of the underlying disease of the mitral valve The book by Dr Ng and coauthors is an extraordinary presentation of the relation between echocardiographic display of mitral valve pathology and reconstructive mitral valve surgery The atlas provides an excellent illustrative guide to teach echocardiographic anatomic correlations and educates the reader on the techniques of mitral valve repair The quality of the illustrations particularly the surgical photographs is exquisite The book will be helpful for cardiologists and cardiac surgeons *Transcatheter mitral valve repair and replacement, An Issue of Interventional Cardiology Clinics* Matthew Price,2019-05-11 This issue of Interventional Cardiology Clinics will explore Transcatheter mitral valve repair and replacement Curated by the series Editor in Chief Dr Matthew J Price this issue will cover topics and advances in the field that are relevant for practicing clinicians This issue is one of four selected each year by Dr Price The volume will include articles on Transcatheter Mitral Valve Direct Annuloplasty With the Millipede Device Transcatheter Mitral Valve Replacement with Intrepid Transcatheter Mitral Valve Replacement with Tendyne Treatment of functional mitral regurgitation with transcatheter edge to edge repair Transcatheter Edge to Edge repair for Degenerative Mitral Regurgitation Predicting Left Ventricular Outflow Tract Obstruction Following Transcatheter Mitral Valve Replacement Prevention and Treatment of Left Ventricular Outflow Tract Obstruction after Transcatheter Mitral Valve Replacement and Transatrial implantation of transcatheter heart valve for mitral disease among others Diagnosis and Treatment of Mitral Valve Disease - E-book Scott Goldman,2022-07-22 The only reference wholly dedicated to this complex

topic Diagnosis and Treatment of Mitral Valve Disease A Multidisciplinary Approach provides authoritative must have information on the disease processes affecting the mitral valve interpretation of diagnostic studies and medical transcatheter and surgical treatments needed for mitral valve repair Using a multidisciplinary approach Drs Scott Goldman and William Gray oversee a who s who team of contributing authors who offer a holistic view of the modern treatment of mitral valve disease for today s cardiac surgeons cardiologists and other cardiac team members Includes foundational chapters on anatomy and pathophysiology of the mitral valve critically important topics when treating multiple complex and highly dynamic structures that function as a single unit Covers diagnostic tools medical treatments surgical therapies and transcatheter therapies and provides tips for developing a successful mitral valve program with baseline thresholds common pitfalls and a checklist for hospitals Uses an accessible quick reference format that features takeaway chapter openers bulleted key points end of chapter summaries a common nomenclature and glossary of terms key references and ample line drawings photographs tables charts and graphs throughout Incorporates the essential role of imaging in structural transcatheter interventions including echocardiography and transcatheter edge to edge repair TEER and their uses in diagnostic work up procedural planning intra procedural guidance and follow up Features dozens of procedural videos including transthoracic echocardiogram cardiac MRI for mitral regurgitation transcatheter mitral valve repair transcatheter valvuloplasty percutaneous mitral valve interventions MitraClip™ positioning and many more Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices

*Percutaneous Mitral Valve Interventions (Repair): Current Indications and Future Perspectives* Alfonso Ielasi,Azeem Latib,Fabien Praz,2020-12-31 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office [frontiersin.org/about/contact](mailto:frontiersin.org/about/contact)

**Mitral Valve Repair** Manuel J. Antunes,1989

**Advanced Therapy in Cardiac Surgery** Kenneth L. Franco,Edward D. Verrier,2003 Advanced Therapy in Cardiac Surgery Second Edition This second edition of Advanced Therapy in Cardiac Surgery presents state of the art techniques and an in depth review of cardiac surgery from the leading authorities Each of the 62 succinct chapters represents the personal treatment protocols of the experts The Advanced

*Percutaneous Mitral Leaflet Repair* Ted Feldman,2012-08-17 Mitral regurgitation MR affects millions of patients worldwide It is a progressive condition that can worsen when left untreated possibly leading to compensatory remodeling of the left ventricle This can result in reduced functional capacity poor quality of life repeat hospitalizations and even death from heart failure Open arrested heart

*Edge-to-Edge Mitral Repair* Ottavio

Alfieri, Michele De Bonis, Giovanni La Canna, 2015-08-28 This is the first comprehensive review of the edge to edge technique for mitral repair which was introduced into the surgical armamentarium in 1991 by one of the authors Ottavio Alfieri The surgical technique employed in edge to edge repair today provides the basis for the only reliable method of percutaneous correction of degenerative mitral regurgitation The book traces the evolution of the edge to edge technique from a surgical to a percutaneous approach documenting indications contraindications technical aspects controversies and clinical outcomes Detailed attention is devoted to the MitraClip procedure which reproduces the Alfieri stitch percutaneously and has to date been used in more than 20 000 patients worldwide The state of the art in MitraClip therapy is described with clear explanation of when and how to use the MitraClip system The reader will learn all aspects of percutaneous edge to edge repair which is recommended for use in carefully selected patients in the new ESC EACTS guidelines for the management of valvular heart disease and in the ESC guidelines on heart failure The group at San Raffaele Hospital Milan has accumulated by far the largest experience in the world with the technique and over the years has been very active in its promotion and scientific evaluation This book reflects that depth of knowledge and will be of great interest to cardiac surgeons and interventional and clinical cardiologists *Transcatheter Mitral Valve Therapies* Ron Waksman, Toby Rogers, 2021-03-09

TRANSCATHETER MITRAL VALVE THERAPIES An essential survey of the advancing field of transcatheter mitral valve repair and replacement Minimally invasive transcatheter therapies have revolutionized the treatment of structural heart disease Greatly improving outcomes for higher risk patients transcatheter aortic valve replacement is now established as a safe and effective alternative to invasive surgery The mitral valve however poses further challenges Contending with one of the heart's most anatomically and pathologically complex components practitioners and engineers have yet to perfect a streamlined widely deliverable therapy though they are getting closer and closer to this goal *Transcatheter Mitral Valve Therapies* provides a far reaching survey of the field of mitral interventions in its current state Highlighting the stumbling blocks preventing transcatheter mitral valve replacement's widespread adoption the book's international group of contributors discuss the improvements to be made in repair and replacement procedures as well as the adjunctive use of imaging and pharmacologic therapies This ground breaking text Provides detailed explanations of transcatheter repair transcatheter replacement and adjunctive procedures Features chapters on the use of imaging to aid in patient selection procedure planning and intra operative guidance Discusses the importance of minimally invasive approaches for mitral valve repair Examines anticoagulation following transcatheter mitral valve interventions Outlines the possible future of transcatheter mitral valve therapy *Transcatheter Mitral Valve Therapies* is an important up to date resource for interventional cardiologists as well as all clinical researchers and practitioners seeking information on this vital and developing treatment *The Practice of Clinical Echocardiography* Catherine M. Otto, 2007 Dr Otto's best selling text not only explains how to qualitatively and quantitatively interpret echocardiographic images and Doppler flow data but also

outlines how this information affects your clinical decision making This edition features new chapters on tissue doppler intracardiac echocardiography hand held echocardiography and echocardiography in inherited connective tissue disorders A companion DVD offers case based multiple choice questions to help you assess your understanding Whether you are attempting to choose a course of therapy ascertain the optimal timing for intervention arrive at a prognosis or determine the possible need for periodic diagnostic evaluation this is an essential resource you ll consult time and time again Delivers clear and concise coverage of the basics of image acquisition that explains the how and why of echocardiography Reflects the latest technology and standards of practice Provides a clinically based approach to echocardiography with an in depth discussion of the main cardiac events seen in practice including adult congenital heart disease Devotes extensive detail to training education and quality assurance making it the most comprehensive text on echocardiography Includes a practical outline called The Echo Exam at the end of each chapter that presents necessary calculations diagnoses and examples along with guidance on how to interpret outcomes Includes a bonus DVD containing 3 cases and 5 multiple choice questions for each chapter that test your knowledge of the material Perfect resource for Residents preparing for the boards Offers an expanded section on echocardiography techniques that explains the latest applications for all types of practices Discusses new echocardiography modalities including contrast and 3 D echocardiography so you can utilize the most promising new approaches for your patients Includes new chapters on tissue doppler intracardiac echocardiography hand held echocardiography and echocardiography in inherited connective tissue disorders Uses new full color line drawings and new color Doppler images to help you easily visualize cardiac problems

*Transcatheter Mitral Valve Replacement and Repair Technology* Joel Thomas, 2021 The mitral valve is a two cusp valve that is located between the left atrium and left ventricle of the heart As blood flows from the lungs and enters the atrium it must pass through this valve in one direction to enter the ventricle and be pumped out to the systemic circuit Mitral valve disease occurs when normal mitral valve function is impaired Many different repair and replacement options exist These options are contingent upon age and risk factors for patients This paper focuses on the four main transcatheter mitral valve replacement devices that have limited human trials It concludes that while the technology serves a niche purpose in the status quo much greater progress will need to be made to make it the prevailing technological procedure to treat heart valve disease in the United States and worldwide

**Transcatheter Valve Repair** Ziyad M. Hijazi, Carlos E. Ruiz, Philipp Bonhoeffer, Ted Feldman, 2006-01-17 Transcatheter Valve Repair discusses all aspects related to percutaneous and established valve repair methods The book is divided into few major sections covering all four valves and other topics Each section contains several chapters discussing everything related to that valve Beginning with the pulmonary valve since it was the first valve to be tackled in the catheterization laboratory and then moving to the aortic then the mitral and then finally end with the tricuspid valve 1 5M US citizens alone have some degree of aortic valve stenosis with half 750K requiring aortic valve replacement Aortic valve replacement on the whole is



performed by surgeons requiring bypass machines and technicians as well as the usual operating team. The operation is expensive and occupies a considerable amount of operating room time. Mostly the aortic valve is calcified and the usual option available to patients is valve replacement with a variety of choices ranging from porcine valves to synthetic for which there are many manufacturers. It should be noted that the aortic valve is the most problematic of valves. Percutaneous procedures are the answer. The bottom line is that given the growing elderly population many more patients will require valve repair thus increasing health care costs with not only surgical operations but also hospitalisation. Percutaneous valve repair whilst requiring a cath lab team does not involve bypass machines nor extended hospitalisation. Like percutaneous transluminal coronary artery interventions PTCA has replaced coronary artery bypass grafts once the golden standard and now stenting having replaced PTCA and its balloons. We now see drug eluting stents replacing ordinary stents though at a much higher cost. There will be a huge movement toward percutaneous valve repair which should presumably cut costs but also morbidity and mortality.

Mechanics of the Mitral Valve After Surgical Repair-an in Vitro Study Sai Muralidhar Padala, 2010. Mitral valve disease is widely prevalent among pediatric and adult population across the world and it encompasses a spectrum of lesions which include congenital valve defects, degenerative valve lesions and valve dysfunction due to secondary pathologies. Though replacement of the diseased mitral valves with artificial heart valves has been the standard of care until early 1990s, current trends have veered towards complete surgical repair. These trends are encouraging but current repair techniques are plagued with lack of durability and high rates of failure within 10 years after repair. With increasing number of patients receiving mitral valve repair there is now an immediate need to understand the mechanisms of repair failure and assess the role of several clinical risk factors on valve repair. In this thesis an in vitro pulsatile left heart simulator was developed to mimic the congenital and adult mitral valve pathological morphologies in normal porcine valves and simulate the pathological valve hemodynamics and mechanics. Different surgical repair techniques were used to correct the valve lesions and the post repair valve hemodynamics, mechanics and geometry were assessed using quantitative measurement techniques. The extent to which each repair restores physiological valve function and mechanics was assessed and the impact of different pathological risk factors on repair failure mechanisms was investigated. It is expected that the knowledge from this thesis would play an important role in the evolution of mitral valve surgical repair and guide the development of more effective and long lasting heart valve repair technologies.

**Textbook of Cardiovascular Medicine** Eric J. Topol, Robert M. Califf, 2007. The Topol Solution gives you a complete print and multimedia package consisting of Textbook of Cardiovascular Medicine Third Edition, a DVD and access to a wealth of online resources. Updated throughout by renowned international authorities, Dr Topol's best selling text provides a comprehensive contemporary view of every area of cardiovascular medicine: preventive cardiology, clinical cardiology, cardiovascular imaging, electrophysiology and pacing, invasive cardiology and surgical techniques, heart failure and transplantation, molecular cardiology and vascular

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