

# The Society of Thoracic Surgeons Practice Guideline on the Prophylaxis and Management of Atrial Fibrillation Associated With General Thoracic Surgery: Executive Summary

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**A**trial fibrillation (AF) occurs in between 10% and 40% of patients after pulmonary and esophageal surgery. The occurrence is associated with increased postoperative complications, increased length of stay, and increased mortality [1, 2]. Although treatment studies have been written on prophylactic AF, specific recommendations for the prophylaxis and treatment of AF related to general thoracic surgery (GTS) do not exist. Therefore, The Society of Thoracic Surgeons (STS) conducted an Evidence Based Surgery Review, a initiative to derive practice recommendations from the literature.

What follows is an executive summary of the full guideline available at <http://www.sts.org/resources/pulmonaryandcardiothoracic/thoracicsurgery/guidelines>. The full guideline includes the complete introduction and detailed sections that fully supports the recommendations listed here.

## Methods

Guideline members reviewed all identifiable published English, related to the prophylaxis and management of AF

The members of The Society of Thoracic Surgeons Clinical Practice Guidelines are required to avoid physician (or other health care) activities in direct or indirect relation to identifying issues, identifying appropriate questions for the guideline, management or prevention of specific diseases or conditions, which guideline members are not involved in direct or indirect management of care or patients under study, or in the development of research studies. Members have guidelines on appropriate management of any conflict of interest. The clinical guideline regarding the use of a particular product or service must be developed on basis of the scientific literature and not on the basis of the product.

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Guideline correspondence to Dr Sturgeon, Department of Cardiothoracic Surgery, University of Illinois at Chicago, Medical Center, Room 1000, Chicago, IL 60607-6200. E-mail: [jsturgeon@uic.edu](mailto:jsturgeon@uic.edu). Received 10/10/2010; accepted 10/10/2010.

after GTS as well as selected reports related to medical AF and AF after cardiac and general surgical procedures. Publications for review were selected by guideline review committees in three areas: (1) prophylaxis, (2) treatment, and (3) management. Levels of evidence were assigned to each publication, and recommendations were made regarding each intervention using the American College of Cardiology/American Heart Association guideline methodology. The document was reviewed and approved according to the STS Approved Process for Practice Guidelines.

Evidence-based guidelines must not be viewed as strict rules. Guidelines are intended to assist health care providers in decision making by providing a range of acceptable approaches for the management of specific conditions. The ultimate judgment regarding care of a particular patient under specific circumstances must be made by the provider. There are certainly circumstances in which management that falls outside of these guidelines will be appropriate.

## History and Risk Factors

Risk factors for postoperative AF include male sex, increasing age, magnitude of lung resection, magnitude of esophageal resection, history of preoperative heart failure, comorbid lung disease, preoperative episodes of all degree of preoperative AF, and procedures associated with postoperative inflammation, especially dissection around the aorta [3, 4]. Reproductive, low highest rates of preoperative AF occur after pneumonectomy, esophageal or pneumonectomy, and after lung resections [5, 6]. After minimally invasive thoracic surgical approaches, the incidence of AF has been as low as 14% [7], to one study, 4 of 100 minimally invasive thoracic patients (4%) had no AF [8]. Atrial fibrillation can also develop postoperatively secondary to a wide variety of stimuli

# Society Of Thoracic Surgeons Guidelines

**Zhenjie Liu, Weiguo Fu, Wei  
Wang, Morgan Salmon, Ho Pei**

## **Society Of Thoracic Surgeons Guidelines:**

**State of the Art Surgical Coronary Revascularization** David P. Taggart, John D. Puskas, 2021 This is the most authoritative textbook ever dedicated to the art and science of surgical coronary revascularization with 71 chapters organized in 9 sections and written by over 100 recognized world experts It covers every aspect of the surgical management of coronary artery pathology and ischaemic heart disease

**Prevention and Management of Post-Operative Complications, An Issue of Thoracic Surgery Clinics 25-4** John D. Mitchell, 2016-01-07 Prevention and Management of Post Operative Complications is reviewed extensively in this important Thoracic Surgery Clinics of North America issue Articles include Cardiovascular complications following thoracic surgery Pain management following thoracic surgery Persistent air leak and pleural space management following pulmonary resection Bronchopleural fistula and empyema after anatomic lung resection Postoperative respiratory failure Complications following carinal surgery and bronchial sleeve resection Anastomotic leak following esophagectomy Management of conduit necrosis following esophagectomy Functional conduit disorders complicating esophagectomy Complications following surgery for achalasia and anti reflux disease Complications following tracheal and laryngotracheal resection Management of thoracic nerve injury Chest wall resection and reconstruction management of complications Management of chylothorax and more

**Principles and Practice of Cardiothoracic Surgery** Michael S. Firstenberg, 2013-06-12 The field of cardiothoracic surgery continues to evolve at a rapidly expanding rate New technologies are under constant development and as patients present with more advanced pathophysiology and complex comorbidities management becomes more dependent on multi disciplinary Teams While there are a variety of innovative and high profile topics that dominate the literature and the interests of clinicians sometimes it is the basics both in terms of acute and sometimes unusual problems that often challenge cardiothoracic surgeons on a day to day basis The goal of Principles and Practice of Cardiothoracic Surgery is to hopefully highlight the current state of the art management of these problems

**Quality in Thoracic Surgery, An Issue of Thoracic Surgery Clinics** Felix G. Fernandez, 2017-07-12 This issue of Thoracic Surgery Clinics guest edited by Dr Felix Fernandez is devoted to Quality in Thoracic Surgery Dr Fernandez has assembled expert authors to review the following topics Risk adjustment and performance measurement for lung cancer resection Risk adjustment and performance measurement for esophageal cancer resection Oncologic quality indicators in thoracic surgery National Quality Forum metrics for thoracic surgery Volume outcome relationships in thoracic surgery Failure to rescue in thoracic surgery Quality and cost in thoracic surgery Patient reported outcomes in thoracic surgery Database audit in thoracic surgery European Society of Thoracic Surgeons risk score International database collaboration in thoracic surgery Hospital readmissions following thoracic surgery and more

**Cardiopulmonary Bypass** Kaan Kirali, Joseph S. Coselli, Afksendiyos Kalangos, 2022-11-30 Cardiopulmonary Bypass Advancements in Extracorporeal Life Support provides comprehensive coverage on the technological developments and

clinical applications of extracorporeal technologies including the underlying basic science and the latest clinical advances in the field Written by experts around the world this book comprises all characteristics of cardiopulmonary bypass as well as chapters regarding equipment physiology and pathology pediatric aspects and clinical applications Important highlights include the latest updates regarding minimal invasive cardiopulmonary bypass MICPB extracorporeal circulatory and respiratory support ECCRS in cardiac and non cardiac patients ECMO support in COVID 19 and updated guidelines of extracorporeal technologies This book is an invaluable resource to clinicians researchers and medical students in the fields of cardiothoracic surgery cardiac anesthesiology intensive care and perfusion technology Offers comprehensive and cutting edge knowledge of cardiopulmonary bypass and extracorporeal life support during surgery and non surgical situations Discusses basic science principles along with practical clinical applications Includes content from authors who are well known experts in the field and whose authoritative contributions are invaluable for early career and experienced practitioners alike

**Nurse Anesthesia - E-Book** Sass Elisha,Jeremy S. Heiner,John J. Nagelhout,2022-01-23 NEW Updated content reflects the latest changes in the industry NEW Two new chapters include Crisis Resource Management and Patient Safety and Infection Control and Prevention

**Grossman & Baim's Cardiac Catheterization, Angiography, and Intervention** Mauro Moscucci,2020-09-10 The leading comprehensive reference on cardiac catheterization through eight outstanding editions Grossman Baim s Cardiac Catheterization Angiography and Intervention Ninth Edition continues to keep you up to date with every facet of this fast changing field Designed for quick access and easy reference this text offers expert overviews of the theoretical and practical aspects of clinical issues with emphasis given to hemodynamic data and tracings and interventional procedures An impressive multimedia library with new videos and cases make this reference even more valuable for cardiologists and interventional cardiologists at all levels of experience

**Evidence-Based Cardiology Consult** Kathleen Stergiopoulos,David L. Brown,2013-11-01 The book will provide a detailed evidence based approach to key issues in the pathophysiology diagnosis and management of patients with concurrent medical issues It will provide a clinical focus with practical advice on the prevention diagnosis and treatment of heart disease supported by an expert s summary without duplicating other texts Each chapter will be structured similarly in the following sections 1 Introduction 2 Pathophysiology 3 Diagnosis 4 Management 5 Key Points 6 Summary of the key guidelines from professional societies where available The recommendations will have a firm background in the AHA ACC or ESC recommendations for the management of patients The intention is to create a comprehensive book rather than a pocketbook or manual We hope this book will serve as an up to date reference for the practicing clinician Each of the approximately 40 chapters will have at most 5000 words and 5 7 high quality figures or illustrations each Only the highest quality authors will be recruited from the United States and Europe The emphasis will be on depth of information yet ease of access This necessitates an approach whereby not a single word sentence or page of the book will be wasted Brief where it needs to be brief detailed where detail is required this will

be a true all encompassing clinician reference      **Ferri's Clinical Advisor 2017 E-Book** Fred F. Ferri, 2016-05-27 Access up to date diagnostic and treatment information on more than 700 common medical conditions with Ferri's Clinical Advisor 2017 which boasts the popular 5 books in 1 format Published annually and now in its 19th year it provides quick guidance on diseases and disorders differential diagnoses medical algorithms laboratory tests and clinical practice guidelines while additional electronic content equips you with e only topics images tables and much more Updated content by experts in key clinical fields helps you keep pace with the speed of modern medicine Popular 5 books in 1 format includes cross references outlines bullets tables boxes and algorithms to help expedite search Diseases and Disorders section features more than 300 new figures and tables as well as 20 new topics including cyclic vomiting syndrome traveler's diarrhea chronic pruritus post herpetic neuralgia enteropathic arthritis and hoarding disorder Differential Diagnosis section highlights 50 new topics including alcohol related seizures dysentery and inflammatory enterocolitis hair loss cystic and solid pancreatic lesions and COPD decompensation New algorithms offer important diagnostic information on 19 added conditions including allergic reaction to vaccines cardiac arrest occupational asthma urinary tract infection and vertigo and dizziness Current ICD 10 insurance billing codes help expedite insurance reimbursements      *Critical Care Nursing - E-Book* Linda D. Urden, Kathleen M. Stacy, Mary E. Lough, 2021-02-18 Winner of the 2nd place American Journal of Nursing Book of the Year award in emergency critical care nursing for 2021 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Critical Care Prepare for success in today's high acuity progressive and critical care settings Critical Care Nursing Diagnosis and Management 9th Edition helps you understand and apply critical care nursing principles and concepts to clinical assessment diagnostic procedures and therapeutic management Known for its comprehensive coverage this leading textbook uses a logical body systems organization to address the care of patients with physiological alterations New to this edition are illustrated Patient Centered Critical Care features aimed at humanizing the ICU as well as Next Generation NCLEX Exam style case studies to help you further develop your clinical judgment skills and prepare for the latest nursing licensure exam Also ideal for CCRN and PCCN exam preparation this book is a one stop resource on the concepts and skills required for critical care nursing Time tested high quality content addresses all aspects of today's high acuity progressive and critical care nursing Consistent organization within each body system unit provides an efficient framework for learning for CCRN and PCCN certification preparation and for reference in clinical practice Comprehensive evidence based content is highly referenced and includes internet resources for further research and study Enhanced Quality and Safety Education for Nurses QSEN integration links text content to QSEN competencies through the addition of QSEN related questions in case studies QSEN labeled features and boxes QSEN content icons and highlighted QSEN information      Evidence-Based Practice of Anesthesiology, E-Book Lee A. Fleisher, 2022-03-22 Addressing both routine and complex situations with practical decision making tools Evidence Based Practice of Anesthesiology 4th Edition helps anesthesiologists make sound decisions in

everyday practice World renowned authority Dr Lee A Fleisher takes an evidence based approach to a variety of high impact topics related to effective perioperative patient management preoperative assessment monitoring and administration of anesthesia during surgery postoperative intensive care management and postoperative pain management The 4th Edition has been updated from cover to cover helping you make informed clinical decisions based on reliable up to date guidance in every aspect of patient care Explores important issues in perioperative management discussing the available options examining the relevant research and presenting practical recommendations Features concise to the point chapters with numerous quick reference tables for fast and effective decision making Includes decision trees throughout to provide visual guidance and a logical flow of key decision points Contains nine new chapters on how to identify patients at risk for postoperative neurocognitive disorder the best strategy for perioperative ACE and ARB agents emergency laparotomy optimal postoperative analgesia and the opiate naïve patient the best method for perioperative handoffs myocardial injury after non cardiac surgery MINS and more Helps you master the current best practices you need to know for successful day to day practice and oral board review 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

*Brigham Intensive Review of Internal Medicine* Ajay K. Singh, Joseph Loscalzo, 2014-07-25 Based upon the popular review course from Harvard Medical School The Brigham Intensive Review of Internal Medicine is a comprehensive study guide for the American Board of Internal Medicine certification or maintenance of certification examination as well as for general practice review by physicians and residents This authoritative thorough resource provides in depth coverage on all specialties of internal medicine as well as palliative care occupational medicine psychiatry and geriatric medicine Editors Ajay K Singh and Joseph Loscalzo recruited leading authorities from Harvard as well as former chief residents at Brigham and Women s Hospital to contribute to this book Featuring over 600 board review questions with numerous tables and figures chapters offer detailed discussions with emphasis on essential learning points Over 100 chapters are organized into 10 broad sections with one additional section dedicated to board simulation As the required content for the American Board of Internal Medicine continues to evolve studying can prove challenging The Brigham Intensive Review of Internal Medicine is the ideal study guide for anyone preparing for certification or recertification

**The Brigham Intensive Review of Internal Medicine** Ajay Singh (M.D.), Joseph Loscalzo, 2012 Based upon the popular review course from Harvard Medical School The Brigham Intensive Review of Internal Medicine is a comprehensive study guide for the American Board of Internal Medicine certification or maintenance of certification examination as well as for general practice review by physicians and residents This authoritative thorough resource provides in depth coverage on all specialties of internal medicine as well as palliative care occupational medicine psychiatry and geriatric medicine Editors Ajay K Singh and Joseph Loscalzo recruited leading authorities from Harvard as well as former chief residents at Brigham and Women s Hospital to contribute to this book Featuring over 600

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Recent Advances in Minimal Access Surgery - 2 Subhash Khanna,2020-04-30 Minimal access surgery is completed with one or more small incisions instead of a large incision The surgeon passes a telescope with a video camera through a small incision into a body cavity The surgeon then views the surgery on a TV monitor Minimally invasive surgery offers patients several benefits such as smaller incisions faster recovery times reduced pain and scarring In many cases minimally invasive surgery also offers a higher accuracy rate compared to traditional open surgery Part of the Recent Advances series this volume is a comprehensive guide to the latest advances in minimal access surgery Divided into 18 sections the book covers minimal access surgery for many conditions predominantly different types of cancer such as rectal carcinoma biliary cancer neuroendocrine tumours cancer of the oesophagus and gastric cancer Other topics include rectal prolapse gastric bypass super obesity and weight loss surgery and novel diagnostics for small bowel disease The highly illustrated text features more than 160 clinical photographs and figures to assist learning Key points Second volume in Recent Advances in Minimal Access Surgery series Covers surgical procedures for a multitude of cancers and other disorders Highly illustrated with more than 160 clinical photographs and figures Volume 1 9789352709830 published in 2019 **New**

**Approaches to Aortic Diseases from Valve to Abdominal Bifurcation** Ion C. Tintoiu,John A. Elefteriades,Adrian Ursulescu,Malcolm John Underwood,Ionel Droc,2017-11-15 New Approaches to Aortic Disease from Valve to Abdominal Bifurcation provides a complete look at aortic valve diseases from all points of view including etiology physiopathology prevention diagnosis and treatment The book offers new insights into the aortic valve and pathology based on evidence of current diagnostic methods treatments and post surgery evolution Content is split into three distinct parts for ease of reference including an overview of aortic pathology diagnostic evaluations methods and treatments Also included are guidelines and future research directions making this a must have volume for all cardiologists and cardiovascular surgeons who address significant issues in this topic area Present pathophysiological sequences that are shown in correlation with histological details Includes detailed clinical examinations and the value of the initial assessment using chest X ray echocardiography angiography CT angiography and magnetic resonance etc Provides conventional descriptions of surgical techniques that are entirely detailed along with long term results and possible complications

Cardiothoracic Surgery, An Issue of Surgical Clinics John H. Braxton,2017-08-01 This issue of Surgical Clinics of North America focuses on Cardiothoracic Surgery and is edited by Dr John H Braxton Articles will include Review of ICU Management of the Cardiac and Thoracic Surgery Patient and the Team Approach Minimally Invasive and Robotically Assisted Cardiac Surgery Surgical

Treatment of Heart Failure The Changing Face of the Cardiothoracic Surgical Team Thoracic Trauma and Management Minimally Invasive and Robotically Assisted Thoracic Surgery The Impact on Less Invasive Surgery on Esophageal Diseases Lung Cancer Screening and its Impact of Surgical Volume The Surgical Treatment of Coronary Artery Occlusive Disease Modern Treatment Strategies for an Age Old Problem Transcatheter Valve Repair and Update Robotic Lobectomy and Segmentectomy Technical Details and Results Diagnostic Imaging and Newer Modalities for Thoracic Diseases PET Imaging and EBUS for Staging and its Implication for Lung Cancer Mitral Valve Repair French Correction vs American Correction Cardiac Screening in the Noncardiac Surgery Patient and more Abdominal aortic aneurysms: Advancements in diagnosis, biomarkers, drug therapeutics, surgical and endovascular treatment Zhenjie Liu, Weiguo Fu, Wei Wang, Morgan Salmon, Ho Pei, 2023-06-22

**Dobutamine Stress Echocardiography: Practical Insights** Taha Othmane, 2025-06-27 Dobutamine Stress Echocardiography Practical Insights is a comprehensive and clinically focused guide to one of the most essential diagnostic tools in cardiovascular medicine Aimed at cardiologists echocardiographers trainees and allied healthcare professionals this book offers a step by step understanding of how to perform interpret and apply Dobutamine Stress Echocardiography DSE in real world clinical settings Covering everything from pharmacology and imaging protocols to safety viability assessment and ischemia detection the book bridges the gap between academic theory and bedside practice It draws upon current international guidelines including the ESC ASE and ACC AHA and integrates the latest advancements in imaging such as strain analysis contrast echo and 3D applications Through detailed chapters case based examples interpretation frameworks and practical tips Dobutamine Stress Echocardiography Practical Insights equips readers with the tools to make confident diagnostic and therapeutic decisions Whether you are just beginning your training in echocardiography or are a seasoned clinician looking to deepen your understanding this resource provides the clarity depth and practicality needed to master DSE

*Patient Reported Outcomes and Quality of Life in Cardiovascular Interventions* Thanos Athanasiou, Ara Darzi, Aung Ye Oo, 2022-10-14 This book provides a guide to the assessment of patient reported outcomes measures and quality of life in cardiovascular interventions which have become a fundamental component of decision making in bedside medicine health policy health economics and public health Cardiac surgery cardiovascular interventions vascular interventions and the core principles of quality of life are all covered This book is the first book to demonstrate how clinicians and policy makers can easily get access to a single source of quality of life and patient reported outcomes measures evidence to help them make the best informed decisions in the field of cardiovascular interventions This is a rapidly emerging field and the book would be relevant to doctors healthcare scientists allied health professionals healthcare managers medical statisticians healthcare economists and consultants working in healthcare

**Manual of Critical Care Nursing - E-Book** Marianne Saunorus Baird, 2021-10-13 Selected for Doody's Core Titles 2024 in Critical Care Coverage of more than 75 disorders most commonly seen in progressive and critical care settings equips you with all



the content needed to handle problems in critical care nursing Consistent easy to use format mirrors a practicing nurse s approach to patient care and facilitates quick reference to vital information Diagnostic Tests tables highlight the definition purpose and abnormal findings for each test Gerontologic considerations and bariatric considerations are highlighted throughout to direct attention to patients with unique needs in critical care settings NOC outcomes and NIC interventions apply standardized nursing taxonomies to the disorders and conditions most commonly encountered in progressive and critical care settings Portable size makes it ideal for use on the unit or at the bedside Safety Alert and High Alert boxes call attention to issues vital to patient safety

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