

The ABCs of Cardiothoracic Trauma



Blunt cardiac trauma



Penetrating cardiac trauma



Pathophysiology

Three primary physiological disturbances associated with cardiac trauma:

- **Haemorrhage**
 - Commonly seen in penetrating injuries
- **Pericardial tamponade**
 - Progressive fall in cardiac output as intrapericardial pressure rises with expanding cardiac tamponade. Ultimate restriction of cardiac output results from external compression to prevent diastolic filling of ventricle
- **Cardiac failure**
 - Trauma to a heart valve, the conduction bundle or a major coronary artery

Blunt Cardiac Injury (BCI)

- May cause compression of the heart between the sternum and spine
- Blunt injury from a penetrating projectile passing adjacent to but not into the heart can also result in blunt cardiac injury
- can lead to myocardial contusion
 - Valvular or septal abnormalities
 - Acute coronary syndrome
 - Rhythm disturbances
 - Cardiac rupture (less common)

Penetrating Cardiac Injury

- Extent of cardiac injury directly related to size, speed, and trajectory of the projectile or implement
- Other cardiac injuries include
 - Coronary artery lacerations (most often the left anterior descending and diagonal branches)
 - Valve injury
 - Ventricular septal defects
 - Bullet injuries may produce through-and-through injuries resulting in haemorrhage, tamponade, and shock.

Cardiac trauma can be grouped by method of injury as either blunt or penetrating with outcomes ranging from lethal injuries to spontaneously resolving arrhythmias. Those with lethal injuries often succumb quickly with some documenting over 90% of individuals expiring before arriving at a hospital, and only a 20-75% survival rate of those that make it to the hospital

Aetiology

Blunt cardiac trauma

- direct impact to the anterior chest
- high-speed sudden deceleration
- compression of the chest
- a combination of the above
- Examples:
 - Motor vehicle accidents
 - Falls
 - Crush injuries
 - Sports-related (baseball hitting chest)
 - Animal-related (kick)



Causes of blunt cardiac trauma

Penetrating cardiac trauma

- Stab wounds
- Gunshot wounds
- Non-firearm related blast injuries and impalements
- Penetration into the heart from a fractured rib



Causes of penetrating cardiac trauma

Cardiothoracic Trauma

Paula Patiu00f1o



Cardiothoracic Trauma:

Cardiothoracic Trauma Panagiotis N. Symbas, 1989 This book based on the author's 24 years of experience as a director at a major trauma center covers all aspects of mechanical trauma to the thoracic regions Both blunt and penetrating trauma are discussed The comprehensive nature of the book is especially valuable because trauma victims often sustain injury to more than one thoracic organ Each chapter includes a diagnostic algorithm for quick reference *Trauma* William C. Wilson, Christopher M. Grande, David B. Hoyt, 2007-02-05 Produced by a world renowned team of trauma specialists this source reviews initial management considerations beginning in the pre hospital phase continues through the primary and secondary surveys of the hospital based evaluation process and proceeds to the perioperative management of trauma burns and associated conditions This reference pro **Cardiac Surgery** A.C. Cernaianu, A.J. DelRossi, 1995-11-30 The topics in this book represent the presentations given at the Seventh Annual Meeting entitled Cardiac Surgery Current Issues held at the Frenchman's Reef Beach Resort St Thomas U S Virgin Islands November 9 12 1994 This symposium was sponsored by the American College of Chest Physicians in conjunction with the Division of Cardiothoracic Surgery of Cooper Hospital University Medical Center the University of Medicine and Dentistry of New Jersey Robert Wood Johnson Medical School Camden New Jersey Chapter authors were charged with the task of writing brief overviews of major issues related to the field of cardiac surgery The book is specifically tailored to the needs of cardiothoracic surgeons cardiovascular perfusionists allied health professionals and nursing personnel involved in all phases of caring for the cardiac surgical patient Although intended as a reference source with emphasis on updated approaches applied in cardiac surgery it is hoped that the discussion of these topics will compliment other texts and manuscripts Obviously a book of this length cannot cover the whole multidisciplinary and complex field of cardiac surgery However co editors are certain that the annual appearance of this text will highlight comprehensive new and interesting approaches to the field of cardiac surgery The co editors are greatly thankful to the contributors for their efforts in providing comprehensive chapters Without their expertise this work may not have been possible We would also like to thank Ms Eileen Birmingham and the staff at Plenum Publishing Corporation for their tremendous help in completing this work **A Practical Approach to Anesthesia for Emergency Surgery** Manju N Gandhi, Anila D Malde, Amala G Kudalkar, Hemangi S Karnik, 2011-07 There is a large influx of trauma general surgical pediatric neurosurgical and obstetric emergencies as the hospital is one of the major public hospitals located in a densely populated region sitting amidst major routes in the city It also provides services for emergency cardiovascular cerebrovascular interventions and cadaver transplants Daily lessons from this tremendous emergency work inspired us to bring out this book There is plethora of reference material available in basic sciences related to anesthesiology namely physiology pharmacology physics and anatomy Similarly a large number of textbooks are on techniques such as general regional monitored anesthesia care as well as super specialties like cardiac neurosurgical and pediatric anesthesia etc But

there is a limited availability of books and references for emergency anesthesia One has to scan and integrate parts from various sources This book is an attempt to assimilate the scattered information and add clinical expertise Contents of this book have been divided into nine sections to cover majority of the emergencies General considerations for adults obstetric and pediatric sections have been written separately to avoid duplication An additional challenge is cases with various medical disorders for emergency surgeries Efforts have been taken to accommodate them in first section and obstetric section The contributors of this book work together at LTMMC and LTMGH and have a well balanced team with fresh talent bringing the latest technological knowledge and tenured practitioners supplementing it with applied experience Part of the team worked on collection of the matter from different sources for an ideal scenario while the senior faculty members used their vast clinical experience for a more practical and realistic application These combined efforts have been truly beneficial to achieve our goal to rationally mix latest technology with clinical experience and identify potential ways to conduct anesthesia with best results at least costs and minimum risk

Textbook of Cardiovascular Medicine Eric J. Topol, Robert M. Califf, 2007

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Management of Cardiothoracic Trauma Stephen Z. Turney,Aurelio Rodriguez,R Adams Cowley,1990 *Moss and Adams' Heart Disease in Infants, Children, and Adolescents: From Fetal Through Adult Life* Daniel J. Penny, Frank Cetta, Seema Mital, Carl L. Backer, Jonathan N. Johnson, Meryl S. Cohen, Carmen H. Watrin, 2026-01-12 Updated and revised from cover to cover Moss and Adams Heart Disease in Infants Children and Adolescents From Fetal Through Adult Life 11th Edition provides the authoritative state of the art information you need when caring for young patients with heart disease Senior editors Drs Daniel J Penny and Frank Cetta lead a diverse and outstanding editorial and author team who cover all recent advances in this complex and fast changing field Expert perspectives from leading cardiologists and other members of the cardiac team ensure that this award winning title remains the reference of choice for cardiology fellows pediatric cardiologists and cardiology practitioners worldwide

Thoracic Trauma and Critical Care Riyad Karmy-Jones, Avery Nathens, Eric Stern, 2002-12-31 This text contains state of the art reviews covering the management of thoracic trauma for intensive care critical care physicians trauma surgeons chest surgeons and other professionals in this field Thoracic Trauma and Critical Care is a comprehensive reference that covers this subject in the following sections Thoracic Trauma Underlying Principles Thoracostomy Thoracoscopy and Thoracotomy Pulmonary and Airway Emergencies Chest Wall Trauma Esophageal Emergencies Cardiovascular Emergencies Infections in the Critical Care Setting This volume covers the current and future trends in resuscitation ventilator management treatment of chest infections chest trauma and other surgical emergencies and take a multidisciplinary approach

Cardiothoracic Trauma Stephen Westaby, John Odell, 1999-04-30 Owing to the severe life threatening nature of many of the injuries it is not always possible to transfer patients to a specialized cardiac centre This book is the definitive account of current practice in cardiothoracic trauma covering the injuries caused in both penetrative and non penetrative trauma to the heart itself and the major arteries and veins which lead to and from it Unique features include numerous high quality line drawings photographs X rays flow charts and lists of key points Each chapter concentrates on the practical managing aspects of chest trauma with authors presenting their wealth of practical experience and sharing techniques developed after many years of dealing with cardiothoracic trauma

Cardiothoracic Surgical Nursing Betsy A. Finkelmeier, 1995 Complications in Surgery and Trauma Stephen M. Cohn, 2007 The only in depth source to focus specifically on surgical complications this reference provides practical information on the incidence management and avoidance of complications encountered during and after surgical procedures Spanning the vast array of complications related to a wide variety of preoperative intraoperative and postoperative events such as organ transplant amputations nerve and fracture repair wound repair and skin grafting this

guide offers detailed guidance and techniques to recognize and control complications in the operating room emergency ward and intensive care unit Trauma to the Heart and Great Vessels Panagiotis N. Symbas,1978 Thoracic Trauma Raleigh Maurice Hood,Arthur Boyd,Alfred T. Culliford,1989 This authoritative clinical reference focuses on the perioperative diagnostic and management procedures in thoracic trauma surgery Includes the combined expertise of a radiologist internist and anesthesiologist as well as general and cardiovascular thoracic surgeons Features beautiful surgical renderings

Imaging in Trauma and Critical Care Stuart E. Mirvis,Kathirkamanthan Shanmuganathan,2003 Encompasses today's full range of modalities and techniques including conventional radiology multislice CT including multiplanar reformation MPR and volume rendered imaging CT angiography conventional angiography and vascular intervention MRI and MR angiography Assesses the advantages and limitations of various modalities presents imaging decision making algorithms for a variety of scenarios and discusses the clinical aspects of major injuries and critical care complications in conjunction with imaging findings to foster a multidisciplinary understanding of each problem **Johns Hopkins Manual of Cardiothoracic Surgery** David Daiho Yuh,Luca A. Vricella,William Baumgartner,2012-09-01 The most up to date comprehensive single volume guide to adult congenital and general cardiothoracic surgery from many of the foremost experts in the field Developed by authorities from leading edge cardiothoracic surgical training programs this much needed reference succinctly reviews a wide range of important topics in cardiothoracic surgery The Johns Hopkins Manual of Cardiothoracic Surgery is especially timely given the recent development of many new scientific findings and emerging technologies You'll find it filled with precise information on surgical techniques and pre and postoperative strategies for managing cardiothoracic disease In this time saving sourcebook you'll get an in depth look at the full spectrum of disorders and their surgical and medical management options including congenital acquired and neoplastic diseases Supporting this detailed coverage is an easy to navigate format featuring focused tables and outline formatted bullets along with step by step explanations of the most complex operations Features Thorough coverage of all major areas of cardiothoracic surgery perfect for cardiothoracic surgery fellows getting ready for Board review exams oral and written and cardiothoracic surgeons preparing for Board certification or recertification Skill building perspectives on open minimally invasive and endovascular surgical procedures complete with relevant surgical anatomy Indications and techniques for heart and lung transplantation Balanced detailed presentation of both pediatric and adult patient care issues Innovative chapters on surgical ventricular remodeling endovascular repair of thoracic aortic pathologies correction of complex congenital defects and thoracic oncology that reflect the most promising new surgical technologies Key Concepts boxes throughout focus on important take home messages of chapter topics Expert authorship with most chapters written by current or past faculty and trainees from The John Hopkins Hospital CARDIOTHORACIC BLUNT TRAUMA: A COMPREHENSIVE REVIEW Paula Patiu00f1o,2017 **LEARNING OBJECTIVES** 1 To illustrate how to detect describe and interpret blunt traumatic injuries to the chest 2

Understand various mechanisms of blunt traumatic injuries to the chest 3 To recognize potential pitfalls during interpretation of patients with cardiothoracic trauma

BACKGROUND Cardiothoracic injuries commonly occur in the context of blunt trauma It is the third most common injury in blunt trauma following head and extremities injuries The majority of cases occur in the setting of vehicle collisions Due to the overall high fatality rate in cardiothoracic injuries 10% rapid detection proper interpretation and timely management of these injuries is important Radiology plays an important role in the management of such injuries Conventional radiography can be used initially and can direct management of several injuries of the chest wall lungs and pleura Computed tomography improves visualization of injuries detected by conventional radiography and is superior in the detection of mediastinal injuries CT can show traumatic injuries even in the setting of a normal radiograph and it can change management in up to 20% of cardiothoracic traumas in patients with an abnormal initial radiograph

CONCLUSION Familiarity with the various mechanisms of injury the different types of cardiac and thoracic injuries and the ability to differentiate anatomical variants from true injuries allows better patient care in the setting of cardiothoracic blunt trauma

Current Therapy in Cardiothoracic Surgery, 1989 *Fuster and Hurst's The Heart, 15th Edition* Valentin Fuster, Jagat Narula, Prashant Vaishnava, Martin B. Leon, David J. Callans, John S. Rumsfeld, Athena Poppas, 2022-04-29 The landmark text that belongs in the hands of every cardiologist fully updated and reorganized to make it more patient centric than ever A Doody's Core Title for 2023 World famous for its authority and clinical relevance Fuster and Hurst's The Heart is cardiology's longest continuously published reference book Written to meet the ever changing needs of cardiologists fellows and interns this trusted classic offers a solid foundation in cardiovascular medicine and complete coverage of all major cardiovascular topics This fifteenth edition presents a greater focus on the practicalities of patient care Additionally the content is ordered in a more methodical pattern from mechanism to management Reflecting the latest technical therapeutic and clinical advances Fuster and Hurst's The Heart provides invaluable concise summaries of major new trials and guidelines Authoritative Coverage and Unmatched Utility Central Illustrations New section on cardiovascular critical care New chapter Cardiovascular Disease and COVID 19 Chapter summaries ACC AHA ESC guidelines in all chapters 1 200 photos and illustrations Sections Include Risk Factors for Cardiovascular Disease Atherosclerosis and Coronary Heart Disease Diseases of the Great Vessels and Peripheral Vessels Valvular Heart Disease Rhythm and Conduction Abnormalities Heart Failure Diseases of the Pericardium Cardiopulmonary Disease Critical Cardiovascular Care Adult Congenital Heart Disease Special Populations and Topics in Cardiovascular Disease

Vascular Trauma Norman M. Rich, Kenneth L. Mattox, Asher Hirshberg, 2004 Covers injuries to the upper and lower extremities as well as the internal organs discusses everything from initial care and diagnostic options through the management of specific injuries and special problems to dealing with complications describes the newest diagnostic modalities such as color flow Doppler and MR angiography as well as the latest interventional techniques and addresses specific challenges such as minimal vascular injuries endovascular grafts

iatrogenic vascular trauma vascular trauma associated with illicit drug use and compartment syndromes

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