

THORACIC TRAUMA: A COMPREHENSIVE REVIEW OF DIAGNOSIS AND MANAGEMENT

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¹, Ministry of Health / Teaching Hospital Badulla / University of Colombo, 2025 © Uva Clinical Anaesthesia and Intensive Care ISSN 2827-7198 / Cardio Thoracic Surgery and Anaesthesia / Thoracic Trauma

Abstract: Thoracic trauma is a significant cause of morbidity and mortality worldwide, accounting for up to 35% of trauma-related deaths. It encompasses a wide spectrum of injuries, ranging from minor rib fractures to life-threatening conditions such as cardiac tamponade, pneumothorax, and great vessel injury. The etiology of thoracic trauma is broadly classified into blunt and penetrating mechanisms, with motor vehicle collisions, falls, and assaults being the most common causes. Prompt diagnosis and management are critical to improving patient outcomes, as many life-threatening thoracic injuries present with minimal external signs.

This review explores the pathophysiology, clinical presentation, diagnostic modalities, and management strategies for thoracic trauma. A high index of suspicion is required, particularly in high-impact injuries where significant intrathoracic damage may be present despite unremarkable external findings. The role of imaging techniques such as chest X-ray, ultrasonography (FAST), and CT scans is highlighted in detecting underlying injuries.

Management strategies follow the Advanced Trauma Life Support (ATLS) guidelines, prioritizing airway management, breathing support, circulation stabilization, and definitive care. Interventions range from conservative management with pain control and respiratory support to urgent surgical procedures such as thoracotomy or video-assisted thoracoscopic surgery (VATS) in severe cases. The prognosis is highly variable, depending on the severity of injury, presence of comorbidities, and timely medical intervention.

Additionally, this article discusses potential complications, including respiratory failure, infections, and neurovascular injuries, and emphasizes the importance of preventative measures and interdisciplinary team collaboration. Enhanced education on trauma prevention and advancements in minimally invasive surgical techniques are key to improving patient outcomes.

Keywords: Thoracic trauma, Blunt chest trauma, Penetrating chest injury, Rib fractures, Hemothorax, Pneumothorax, Cardiac tamponade, Trauma management, ATLS, Video-assisted thoracoscopic surgery (VATS)

Key Points:

Epidemiology: Thoracic trauma accounts for approximately 35% of trauma-related deaths and is a major contributor to global morbidity and mortality.

Mechanisms of Injury: Trauma is classified as either blunt (motor vehicle collisions, falls, assaults) or penetrating (gunshot wounds, stab injuries).

Diagnostic Approach: Imaging techniques such as chest X-ray, ultrasonography (FAST), and CT scan play a crucial role in the timely identification of injuries.

Life-Threatening Injuries: Immediate recognition and intervention are required for cardiac tamponade, massive hemothorax, tension pneumothorax, and major vascular injuries.

Management Strategies: Following ATLS protocols, interventions range from conservative pain management to invasive procedures like chest tube placement or thoracotomy.

The Management Of Thoracic Trauma Victims

Jeanette Vaughan, Whitney Villegas



The Management Of Thoracic Trauma Victims:

The Management of Thoracic Trauma Victims J. Kent Trinkle, 1980 *Trauma Care Manual Second Edition* Ian Greaves, Keith Porter, Jeff Garner, 2008-11-28 The Trauma Care Manual was first published in 2000 and was the first evidence based manual of best trauma practice Now in its second edition it continues to offer clear and practical guidelines for the management of victims of major trauma reflecting current practice in the United Kingdom and Europe The second edition benefits from an increase in illustrative material and is further enhanced by the addition of at least one case study for every topic in the book Objectives and Summary boxes ensure a user friendly approach and are supplemented by key points highlighted throughout the text New to the second edition are Global Perspectives boxes at the end of most of the chapters which highlight techniques and practices from around the world Written by members of Trauma Care and invited experts the Trauma Care Manual offers a nationally accepted set of standards for good practice which provide a benchmark for all those involved in the care of the trauma patient It is a unique reference for all professionals involved in the care of victims of trauma and an invaluable addition to every Accident and Emergency Department **Trauma Anesthesia and Intensive Care** Mr. Rohit Manglik, 2024-07-30 This book highlights anesthetic protocols airway management hemodynamic stabilization and critical care interventions tailored to trauma and emergency surgery settings **Thoracic Trauma and Critical Care** Riyadh Karmy-Jones, Avery Nathens, Eric Stern, 2012-12-06 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 Trauma Care Manual Ian Greaves, Sir Keith Porter, Jeff Garner, 2021-11-28 The Trauma Care Manual 3e is the definitive evidence based manual of best trauma practice Now in its third edition this valuable book continues to provide clear practical guidelines for the management of victims of major trauma New coverage includes chapters on abdominal and urological trauma as well as trauma in the obese patient Also included is coverage of pre hospital management trauma centres systems modern trauma resuscitation trauma physiology damage control surgery Written by members of Trauma Care this book offers a nationally accepted set of standards for good practice **Textbook of Critical Care E-Book** Jean-Louis Vincent, Edward Abraham, Patrick Kochanek, Frederick A. Moore, Mitchell P. Fink, 2011-05-12 Textbook of Critical Care by Drs Jean Louis Vincent Edward Abraham Frederick A Moore Patrick Kochanek and Mitchell P Fink remains your best source on effective management of critically ill patients This trusted reference acclaimed for its success in bridging the gap between medical and surgical critical care now features an even

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Textbook of Polytrauma Management Hans-Christoph Pape, Joseph Borrelli Jr., Ernest E. Moore, Roman Pfeifer, Philip F. Stahel, 2022-05-31 This textbook is a fully updated and revised third edition of a highly successful practical guide to the care of the polytrauma patient Broadening its readership to students this new edition comprehensively describes the clinical course of multiple and severe injuries from the accident scene to rehabilitation It provides essential practical information on the care of patients both with blunt and penetrating trauma to multiple body regions and discusses the management of truncal injuries head chest abdomen as well as fractures of the extremities pelvis and spine Further the book highlights associated injuries that may alter decisions concerning patients with polytrauma This new revised edition takes full account of recent developments including the increasing economic pressure on health care systems prehospital treatment changes in trauma systems and related education and the improved survival of polytrauma patients Also covering improved monitoring options along with issues in late patient outcomes and rehabilitation this work will greatly assist students emergency personnel trauma surgeons orthopaedic traumatologists and anesthesiologists

Principles and Practice of Anesthesia for Thoracic Surgery Peter Slinger, MD, FRCPC, 2011-07-12 Principles and Practice of Anesthesia for Thoracic Surgery will serve as an updated comprehensive review covering not only the recent advances but also topics that haven t been covered in previously published texts extracorporeal ventilatory support new advances in chest imaging modalities lung isolation with a difficult airway pulmonary thrombo endarterectomy and chronic post thoracotomy pain Additionally the book features clinical case

discussions at the end of each clinical chapter as well as tables comprising detailed anesthetic management Pediatric Surgery, 2-Volume Set Arnold G. Coran, N. Scott Adzick, Thomas M. Krummel, Jean-Martin Laberge, Robert Shamberger, Anthony Caldamone, 2012-02-14 Pediatric Surgery 7th Edition edited by Arnold G Coran Anthony Caldamone N Scott Adzick Thomas M Krummel Jean Martin Laberge and Robert Shamberger features comprehensive up to date guidance on all aspects of childhood surgery including congenital malformations tumors trauma and urologic problems Apply the latest developments in fetal surgery adolescent bariatric surgery minimally invasive surgery in children and tissue engineering for the repair of congenital anomalies such as the separation of conjoined twins you can also access the fully searchable text online at www.expertconsult.com making this definitive resource more accessible than ever Get comprehensive coverage of cutting edge technology in pediatric surgical diseases including imaging concepts minimally invasive techniques robotics diagnostic and therapeutic advances and molecular biology and genetics Find information quickly and easily with an intuitive organization by body region and organs Apply the guidance of world renowned experts in pediatric surgery Access the fully searchable text online at www.expertconsult.com Stay current on recent developments in fetal surgery adolescent bariatric surgery minimally invasive surgery in children and tissue engineering for the repair of congenital anomalies such as the separation of conjoined twins Master the latest surgeries available for fetal and neonatal patients and provide life saving options at birth Tap into the expertise of new editors who bring fresh perspectives to cutting edge techniques

Evidence-Based Trauma Pearls, An Issue of Critical Care Nursing Clinics of North America, E-Book Jeanette Vaughan, Whitney Villegas, 2023-05-04 In this issue of Critical Care Nursing Clinics guest editor Dr Jeanette Vaughan brings her considerable expertise to the topic of Evidenced Based Trauma Pearls Top experts in the field provide evidence based pearls on key topics such as airway management spinal cord injuries chest trauma geriatric frailty trauma TBI falls trauma and the obstetric patient and more Contains 13 relevant practice oriented topics including the multidisciplinary team in critical care ethical dilemmas in critical care LGBT and trauma social determinants of health in trauma patients victim mental health trauma and more Provides in depth clinical reviews on evidenced based trauma pearls offering actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create clinically significant topic based reviews

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