

# THORACIC TRAUMA: A COMPREHENSIVE REVIEW OF DIAGNOSIS AND MANAGEMENT

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<sup>1</sup>, 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

**Nancy L. Caroline, Russell  
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Pediatric Thoracic Surgery D.H. Parikh, David Crabbe, Alex Auld, Steven Rothenberg, 2009-03-26 In most parts of the world the treatment of adults with surgically correctable abnormalities of the thorax and its contents is provided by specially trained thoracic surgeons On the other hand in children pediatric general surgeons usually take on this role because of their training in the surgical care of sick infants and children and their experience with the management of congenital malformations In an ideal world the treatment of surgical disorders of the thorax in children would be provided by a super specialist but this is neither practical nor possible This text provides information that will help bridge the gap for a group of conditions often only encountered rarely by otherwise experienced surgeons This book is not designed to be a textbook of operative surgery Instead the broad scope is to provide important up to date information and reference material relating to most of the thoracic surgical conditions seen in childhood The editors and contributors have ably met their goal to give the reader the proper medical and surgical principles needed to treat these childhood conditions One can't help to note the impressive array of authors from around the world When I first started out in pediatric surgery only a few pediatric surgeons in a few centers would dare tackle some of the abnormalities noted in these chapters Others who dared because they had no

other choice often failed Now it is clear that globalization has truly come to our discipline

**Management of Cardiothoracic Trauma** Stephen Z. Turney,Aurelio Rodriguez,R Adams Cowley,1990 *Thoracic Trauma* DeWitt C. Daughtry,1980 **The Management of Trauma** Walter F. Ballinger,Robert B. Rutherford,1973 **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 Thorascopy 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

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