

THORACIC TRAUMA: A COMPREHENSIVE REVIEW OF DIAGNOSIS AND MANAGEMENT

Indunil Karunaratna¹, Sau Bandara¹, Sanjaya Godage², PN Rodrigo³, Asoka Jayawardana¹, U Vidanagama¹, Cam Fernando¹, Upul Ekanayake¹, T Hapuarachchi¹, Prasanna Gunasena¹, P Aluthge¹, Nihal Perera¹, Senaka Gunathilake¹, Kapila De Alwis¹, Kapila Gunawardana¹, Samadi Rajapaksha¹, A Warnakulasooriya¹, P Athulgama¹, Sanjeeva Dias¹, R Ramwala¹.

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).

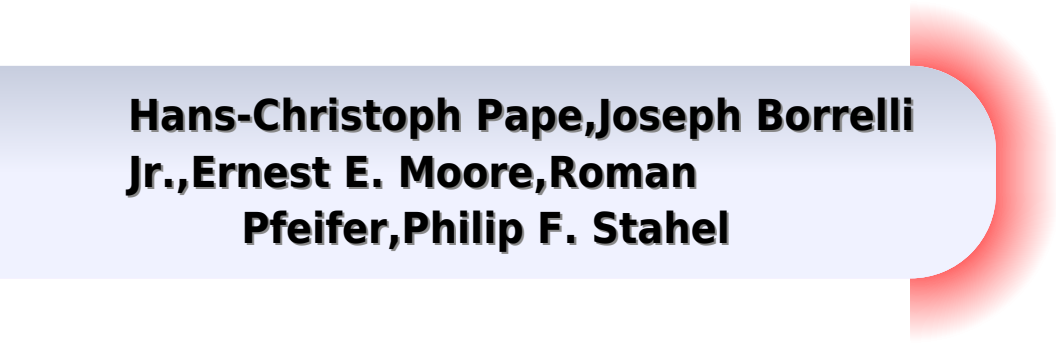
Diagnostic Approach: Imaging techniques such as chest X-ray, ultrasonography (FAST), and CT scan play a crucial role in the timely identification of injuries.

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

**Hans-Christoph Pape, Joseph Borrelli
Jr., Ernest E. Moore, Roman
Pfeifer, Philip F. Stahel**



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Essentials of Emergency Medicine Richard V. Aghababian, 2010-08-23

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orthopaedic traumatologists and anesthesiologists Rosen's Emergency Medicine - Concepts and Clinical Practice, 2-Volume Set, Expert Consult Premium Edition - Enhanced Online Features and Print, 7 James Adams, 2010-01-01 This reference places the latest information at users fingertips and a more streamlined format makes it easy to find the exact information quickly and conveniently Includes access to a companion Web site for additional resources Trauma Anesthesia Charles E. Smith, 2008-06-23 Injuries are estimated to become the number one cause of death for men and women under the age of 45 by the year 2020 Trauma patients present unique challenges to anesthesiologists Acute injuries require resource intensive care and are often complex cases especially when coupled with underlying pre existing medical conditions Anesthesiologists are involved with trauma patients beginning with airway and shock resuscitation continuing with intra operative care during surgery and extending on to pain management and critical care post operatively This reference focuses on a broad spectrum of traumatic injuries and the procedures anesthesiologists perform to adequately care for trauma patients perioperatively surgically and post operatively Special emphasis is given to the assessment and treatment of coexisting disease Numerous tables and 300 illustrations showcasing various techniques of airway management shock resuscitation echocardiography and use of ultrasound for the performance of regional anesthesia in trauma provide an invaluable reference for the anesthesiologist **Critical Care Obstetrics** Jeffrey P. Phelan, Torre L. Halscott, Leslie A. Moroz, Arthur J. Vaught, Antonio F. Saad, Amir A. Shamshirsaz, 2024-03-15 Critical Care Obstetrics Improve medical outcomes for both mothers and children with this essential guide For the first time in decades maternal mortality rates are climbing in the United States Factors including lack of access to prenatal care un or underinsured populations rising rates of cardiovascular disease and more combine to make pregnancy and childbirth more dangerous prospects In this environment the study of critical care obstetrics has never been more essential Critical Care Obstetrics Seventh Edition a fully updated guide to the medical management of serious conditions in pregnancy and childbirth Beginning with basic principles it surveys the potential serious complications occurring in pregnancy and delivery and the techniques and procedures for maximizing patient outcomes for both pregnant people and fetuses This clear accessible text promises to continue the essential work of earlier editions Readers of the seventh edition of Critical Care Obstetrics will also find Detailed protocols for implementing life saving treatments in emergencies New chapters on topics including ECMO antibiotics and pneumonia Authorship by internationally renowned experts in emergency obstetrics Critical Care Obstetrics is ideal for working clinical obstetricians and for trainees in obstetrics and gynecology *Emergency Medical Responder (Canadian Edition) includes Navigate Advantage Access* American Academy of Orthopaedic Surgeons (AAOS), Paramedic Association of Canada, 2019-12-27 Emergency Medical Responder is an essential training program that fully meets the newly developed National Occupational Competency Profile for Emergency Medical Responders NOCPs This comprehensive text addresses the entire NOCPs with clarity and precision in a format that ensures student comprehension and encourages critical thinking

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Table of Contents The Management Of Thoracic Trauma Victims

1. Understanding the eBook The Management Of Thoracic Trauma Victims
 - The Rise of Digital Reading The Management Of Thoracic Trauma Victims
 - Advantages of eBooks Over Traditional Books
2. Identifying The Management Of Thoracic Trauma Victims
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an The Management Of Thoracic Trauma Victims
 - User-Friendly Interface
4. Exploring eBook Recommendations from The Management Of Thoracic Trauma Victims
 - Personalized Recommendations
 - The Management Of Thoracic Trauma Victims User Reviews and Ratings
 - The Management Of Thoracic Trauma Victims and Bestseller Lists
5. Accessing The Management Of Thoracic Trauma Victims Free and Paid eBooks

- The Management Of Thoracic Trauma Victims Public Domain eBooks
- The Management Of Thoracic Trauma Victims eBook Subscription Services
- The Management Of Thoracic Trauma Victims Budget-Friendly Options
- 6. Navigating The Management Of Thoracic Trauma Victims eBook Formats
 - ePub, PDF, MOBI, and More
 - The Management Of Thoracic Trauma Victims Compatibility with Devices
 - The Management Of Thoracic Trauma Victims Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of The Management Of Thoracic Trauma Victims
 - Highlighting and Note-Taking The Management Of Thoracic Trauma Victims
 - Interactive Elements The Management Of Thoracic Trauma Victims
- 8. Staying Engaged with The Management Of Thoracic Trauma Victims
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers The Management Of Thoracic Trauma Victims
- 9. Balancing eBooks and Physical Books The Management Of Thoracic Trauma Victims
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection The Management Of Thoracic Trauma Victims
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine The Management Of Thoracic Trauma Victims
 - Setting Reading Goals The Management Of Thoracic Trauma Victims
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of The Management Of Thoracic Trauma Victims
 - Fact-Checking eBook Content of The Management Of Thoracic Trauma Victims
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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