



Unit Objectives

- Upon completion of this chapter, you should be able to:
 - List and describe the major etiologies of traumatic death.
 - Discuss the trimodal distribution of trauma deaths and provide examples of the types of interventions necessary to decrease the number of deaths in each category.
 - Briefly trace the history of trauma systems development in this country.
 - Compare and contrast the various levels of trauma centers.
 - Define the role of EMS in trauma care.





Unit Objectives continued

- Discuss the problems encountered in rural trauma situations.
- Discuss the "White Paper" and its effect on EMS system development.

Chapter 3. Overview of Trauma Care







Trauma and EMS



- The #1 cause of death for persons under age 34.
- Less than 10% require prehospital ALS and a Level I trauma center
- 15% require prehospital ALS but not Level I trauma center
- 75% can be managed with prehospital BLS and the local hospital









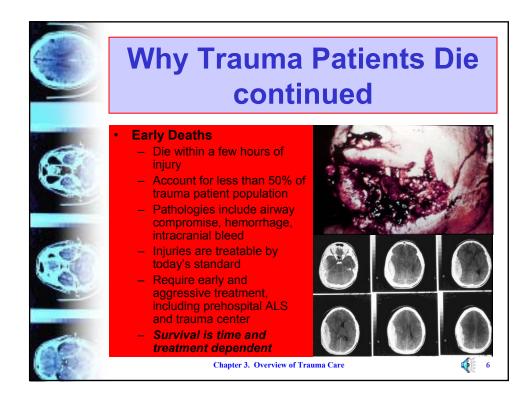
Why Trauma Patients Die

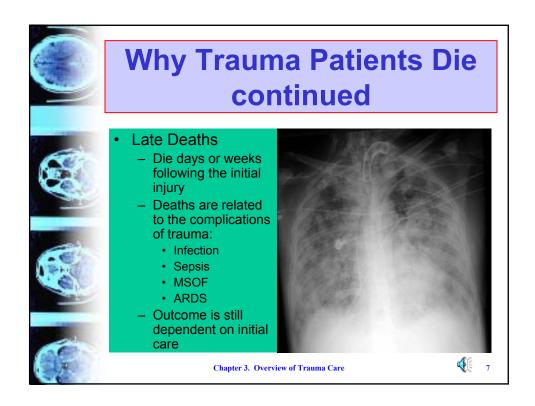
Immediate deaths

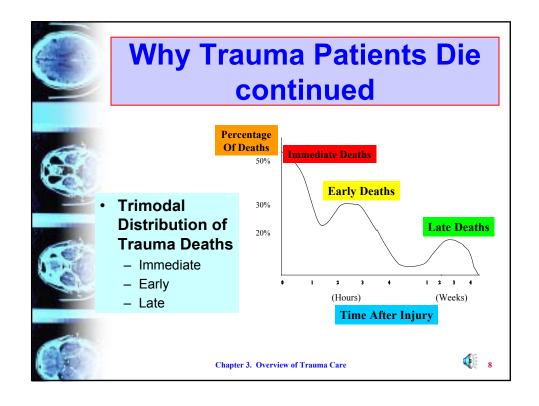
- Die immediately or within a few minutes of injury
- Injury to brain, spinal cord, heart or major blood vessel
- Account for more than 50% of all trauma fatalities
- Injury prevention is the ONLY intervention for this group









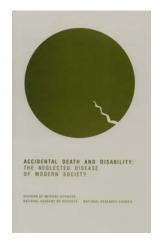




Development of Trauma Care

Government Involvement

- Hill Burton Act (1946)
- President's commission on highway safety (1965)
- "White Paper" (1966)
- Highway Safety Act (1966)
- EMS Systems Act (1973)
- Omnibus Budget Reconciliation Act (1981)
- Trauma Care Systems Planning and Development Act (1990)



Chapter 3. Overview of Trauma Care





Development of Trauma Care continued

Military Contributions

- "Field Hospitals" of Roman Empire, Crimean and Civil War
- Development of field care
 - · Helicopters, traction splints, triage
 - Declining mortality

- WWI 8%

– WWII 5%

Korea 2+%

- Vietnam 2%

Emergency Medical Services

- PHTLS/BTLS/ATLS
- Triage
- Link to Trauma Care System
- Goals
 - Minimize on-scene time
 - Provide aggressive treatment
 - Transport to the most appropriate facility

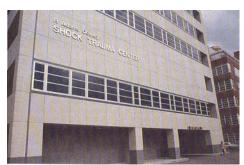








- Shocktrauma and **Cook County Hospital**
- Components
 - Medical direction
 - Communication
 - Triage
 - Transport
 - Public education
 - Evaluation
 - Prevention
 - Training
 - Prehospital care
 - Hospital care
 - Rehabilitation









Regional Trauma Systems

- Levels of Trauma Centers
 - Level I
 - Entire spectrum of care, from prevention to rehabilitation.
 - Usually located at university settings
 - · Involved in research, education, and systems planning
 - Level II
 - Capable of managing most trauma cases
 - Offer prevention programs
 - Limited research

Chapter 3. Overview of Trauma Care





Regional Trauma Systems continued



- Levels of Trauma Centers continued
 - Level III
 - Located at community hospitals
 - · Major trauma cases usually referred to Level I or II center
 - Level IV
 - · Located in remote or rural areas
 - May be in a clinic setting
 - Level V
 - · Located in desolate areas
 - · Virtually all trauma cases eventually transferred

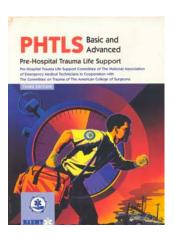




The "Golden Hour"



- R Adams Cowley
- Platinum ten minutes
- The Rural Trauma
 Problem







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