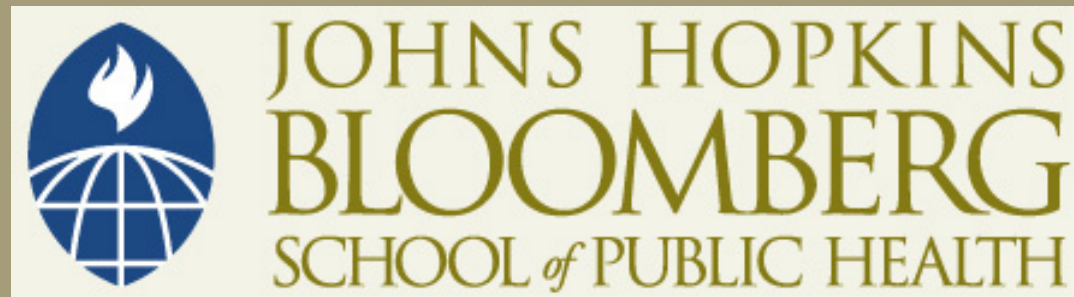


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JOHNS HOPKINS
BLOOMBERG
SCHOOL *of* PUBLIC HEALTH

Acute Care

Adnan Hyder, MD, PhD

Maria Segui-Gomez, MD, MPH, ScD

Johns Hopkins University

Lecture Topics

- The importance of timely trauma care
- Developing and evaluating an acute trauma care system
- Trauma care in the developing world
- Responses to trauma
- Case study in acute care



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Section A: The Importance of Timely Trauma Care

Maria Segui-Gomez, MD, MPH, ScD

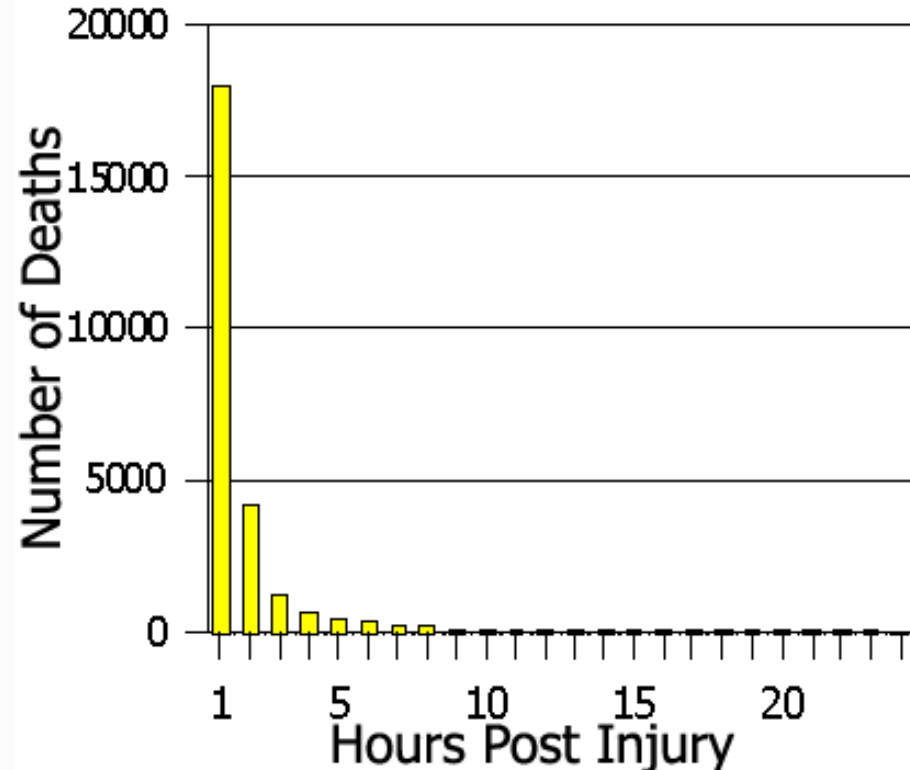
Objective

- Restore person's quality of life

Time of Death

- Most deaths occur at the scene (e.g., MV fatalities)
- One-third within an hour, one-third within a month, one-third within a year
- The “golden hour”

Figure 2 - Light Vehicle Occupant Deaths
1995 FARS Data With Known Time of Death



Trauma Care Issues

- Acute trauma care:
 - Early case identification
 - Pre-hospital care—delivery and transport to hospital
 - Trauma care system development
 - Triage criteria
- Rehabilitation efforts
- Financial arrangements

Early Case Identification

- Communication infrastructure
 - Telecommunication
 - Access
- Triage criteria

Pre-Hospital Care: Delivery and Transport to Hospital

- “Scoop and run” vs. “Stay and treat”

Pre-Hospital Care: Delivery and Transport to Hospital

- “Scoop and run” vs. “Stay and treat”
 - EMTs and paramedics vs. physicians

Pre-Hospital Care: Delivery and Transport to Hospital

- “Scoop and run” vs. “Stay and treat”
 - EMTs and paramedics vs. physicians
 - Ground vs. air transport

Trauma Care System Development

- Characterization of trauma centers (hospital specialization)
 - Definition of minimums
 - Verification system

Trauma Care System Development

- Development of regional (state and national) trauma systems

Trauma Care System Development

- Development of regional (state and national) trauma systems
 - Designation
 - Who wants to participate and who doesn't?

Triage Criteria

- At different levels:
 - Scene
 - Hospital
 - Rehabilitation
- Standardized protocols
 - For example, advanced trauma life support

Trauma Rehabilitation Care

- Plan it early into acute care
- Challenging in less resourceful environments
 - Money
 - Technology

Financial Arrangements

- Patient level
- Payment method
 - Fee for service
 - Insurance
 - ▶ Trauma patients as uninsured (younger and/or lower socio-economic level)
 - ▶ Tort/non-fault

Financial Arrangements

- Patient level
- Payment method
 - Effect on physicians/hospitals
- System level