

Injury 2010

Eden Park – Auckland



He moved off the edge of the earth.





Delaware Valley Philadelphia





Eastern North Carolina



East Carolina University



The Brody School of Medicine



Pitt County Memorial Hospital



Department Components by Division

- **Endocrine, Minimally Invasive and Bariatric Surgery**
 - ♦ The Metabolic Institute
- **Trauma, Emergency Surgery and Surgical Critical Care (Acute Care Surgery)**
 - ♦ The Center of Excellence for Trauma and Surgical Critical Care
- **Surgical Oncology**
 - ♦ The Leo Jenkins Cancer Center
- **Transplantation and Surgical Immunology**
- **Plastic and Reconstructive Surgery**



Department Components by Division

- **Pediatric Surgery**
 - ♦ The Children's Hospital
- **Division of Clinical Effectiveness**
 - ♦ NSQIP
 - ♦ NTRACS
 - ♦ SRC
 - ♦ STS Database
- **Division of Surgical Education**
- **Division of Neurological Surgery**
- **Strategic Alliances**
 - ♦ Chowan Division
 - ♦ Lenoir Division
 - ♦ Roanoke Chowan Division

***12 Divisions - 50 Faculty,
over 100 support staff***



The Trauma Team: Composition and Function

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East Carolina University

Chairman, Committee on Trauma
American College of Surgeons



Embracing a
New Century of Service



East Carolina University



Objectives

- **What is the Goal?**
 - ♦ Death and Disability
 - ♦ Achieving the objectives
- **Team Play**
- **Vertical vs. Horizontal Resuscitation**
- **Function and Form**
 - ♦ Where and When
- **Composition**
 - ♦ Who and What
- **Leadership**



Teamwork

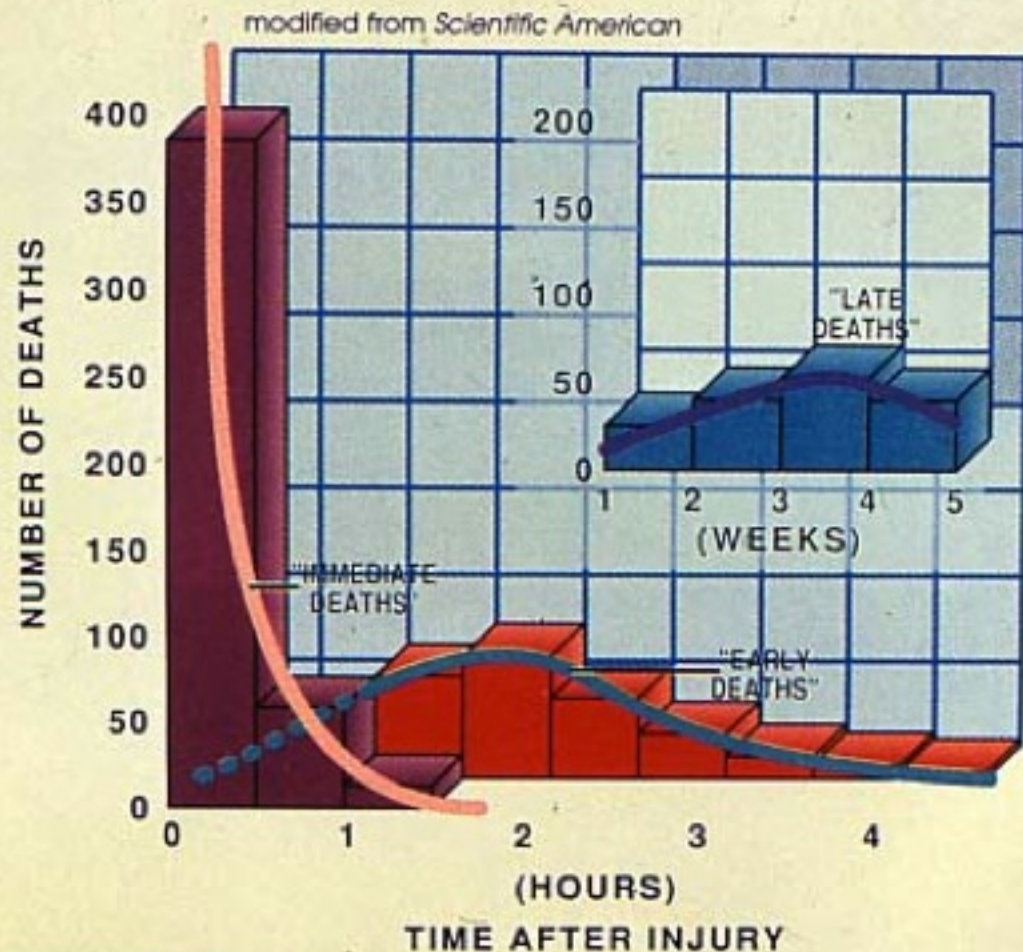
Trauma resuscitation
is a team sport with
high stakes:

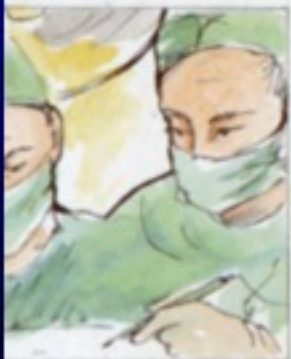
If you lose, the patient
loses.

The Development of Trauma Systems



1981 Trunkey
Scientific American





RAPID

ORGANIZED

COORDINATED

**TRAUMA
CENTER**


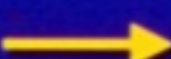
...the trauma team...



CRUCIAL ROLE:

KEY TIME:

Event to Definitive Control

- **Bleeding**  **OR**
- **Biochemical response**  **ICU**

.... is to stop bleeding or blunt the pathophysiology as a result of injury.....

The Center of Excellence for Trauma and Surgical Critical Care



Background

- Teamwork
 - ♦ “No one alone is sufficiently wise” Plautus
 - ♦ It is more than a collection of individuals working in the same room
 - ♦ It is a coordination of effort to achieve a common goal

Plautus Civil



What is Teamwork?

- **More than a collection of individuals working together**
- **More than a quick hello**
- **The final product is a high performance team with collective accountability**
- **“Team” is ultimately responsible for patient outcomes**

Elements of Successful Team Play

- Clear Mission
- Defined Strategic Plan
- Organized Roles
- Ownership
- Commitment
- Capacity and Ability
- Trust
- Leadership





TRAUMA RESUSCITATION Vertical vs. Horizontal

- **Vertical - ATLS model**
 - ♦ **Limited personnel**
 - ♦ **ABCDE sequentially**

The Vertical Approach to Resuscitation

Primary Survey



Resuscitation Phase



Secondary Survey



Definitive Care Plan



Primary

Resuscitation

Secondary

Definitive Care

Airway
Breathing
Circulation
Disability
Expose

O₂

IV's

Labs

ECG

SaO₂

NG/OG

Foley

HEENT

Neck

Lungs

Cardiac

Abdomen

Rectal

Extremities

Neurologic

X-Ray

OR

ICU

GCU

TIME!!!

TRAUMA RESUSCITATION

Horizontal vs. Vertical

- **Horizontal**
 - ♦ **“Trauma Team” model**
 - ♦ **Team leader**
 - **Control personnel**
 - **Assign tasks**
 - ♦ **Team members - lots!**



The Horizontal Approach to Resuscitation

Primary Survey



Resuscitation Phase



Secondary Survey



Definitive Care Plan



Work the Clock!



Function and Form: Contingency

Team Composition



- **Advanced Practitioner**
- **ED Tech**

- **Emerge Doc**
- **Nurse Resuscitator**
- **ED Tech**



- **Surgeon**
- **Emerge Doc**
- **Nurse Recorder Resuscitator**
- **Respiratory Therapy**
- **ED Tech**



- **Surgeon**
 - ♦ **Senior Resident**
 - ♦ **2 Junior Residents**
 - ♦ **Medical Student**
- **Emerge Doc**
 - ♦ **Senior resident**
- **Nurses**
 - ♦ **Recorder**
 - ♦ **Nurse 1**
 - ♦ **Nurse 2**
- **Respiratory Therapy**
- **Radiology Tech**
- **Lab/Blood Bank Tech**
- **Unit Clerk**
- **Security**
- **Chaplain**
- **Social Work**



"That's why I never walk in front."

"That's why I never walk in front."

Leadership Qualities

- Courage
- Desire
- Emotional Stamina
- Physical Stamina
- Empathy
- Decisiveness
- Anticipation
- Competitiveness
- Accountability
- Credibility
- Dependability
- Mentor



TRAUMA RESUSCITATION

The Big Picture

- **Control yourself**
- **Control the patient**
- **Control the environment**
- **Have a plan**
- **Be flexible**

Objectives

- What is the Goal: Stop the bleeding!
 - Team Play: Saves Lives
 - Vertical vs. Horizontal Resuscitation:
 Know the Difference – Work the Clock
 - Function and Form
 - Composition
 - Leadership : Be in charge!
- } **CONTINGENCY!**



Thank You Injury 2010!

