Injury 2010
Eden Park – Auckland
He moved off the edge of the earth.
Delaware Valley
Philadelphia
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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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
...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
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
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
Primary
- Airway
- Breathing
- Circulation
- Disability
- Expose

Resuscitation

Secondary
- O2
- IV’s
- Labs
- ECG
- SaO2
- NG/OG
- Foley

HEENT
- Neck
- Lungs
- Cardiac
- Abdomen
- Rectal
- Extremities
- Neurologic

Definitive Care

X-Ray
- OR
- ICU
- GCU

Work the Clock!
Function and Form: Contingency
Team Composition

- Advanced Practitioner
- ED Tech
- Emerge Doc
- Nurse Resuscitator
- 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."
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!