

## Trauma 1

### **Trauma Principles**

- Understand the Center for Disease Control Trauma Triage Protocol used by Wake County EMS
  - First Responders do not make trauma notifications
- List the Glasgow Coma Score
- Describe the kinematics of trauma
- Describe the pathophysiology of blunt trauma
- Describe the pathophysiology of penetrating trauma
- Relate various mechanisms of injury with potential injuries
- Review components of a rapid trauma assessment
- List treatments during the rapid trauma assessment
- Describe unique considerations with the pregnant trauma patient
- Relate the importance of transport to definitive care to reduction of mortality
- Describe the air medical policy for Wake County EMS

#### Skills:

- Perform a rapid trauma assessment

## Trauma 2

### **Shock and Soft Tissue Trauma**

- Describe the essential functions for normal perfusion
- Describe the body's response to hypoperfusion
- List the signs and symptoms of hypovolemic shock
- Describe management techniques for the patient with shock
- Describe key differences in pediatric and geriatric patients presentation with shock
- List signs of internal and external (arterial, venous, and capillary) bleeding
- Relate severity to amount of blood loss, rate of blood loss, and age
- Describe the physiological response to bleeding
- Describe management strategies for internal and external bleeding
- Describe the anatomy of the skin
- List types of closed soft tissue injuries
- List signs and symptoms of closed soft tissue injuries
- Describe management techniques for closed soft tissue injuries
- List types of open soft tissue injuries
- List signs and symptoms of open soft tissue injuries
- Describe management techniques of open soft tissue injuries
- Describe the classifications of burn injuries
- Calculate percentage of body surface area burned
- Describe management techniques of burn injuries
- List complications of burn injuries
- Review special considerations with pediatric and geriatric patients
- List types of blast injuries
- List signs and symptoms of a blast injury
- Describe management techniques of a blast injury

Skills:

- Demonstrate techniques to control external hemorrhage
- Demonstrate technique for placement of a CAT tourniquet

### **Trauma 3**

#### ***Chest, Abdominal, GU, Extremity***

- Describe the anatomy of the chest
- Describe the pathophysiology of chest trauma as it relates to cardiac output, ventilation, and gas exchange
- Describe injuries consistent with penetrating and blunt chest trauma
- List signs and symptoms expected with chest trauma
- Describe general management techniques for chest trauma
- Describe the anatomy of the abdomen/pelvis
- Describe injuries consistent with open and closed abdominal trauma
- List signs and symptoms expected with abdominal trauma
- Describe management techniques for abdominal/pelvic trauma
- Describe types of fractures
- List signs and symptoms of a fractured extremity
- Describe management techniques for a fractured extremity
- Describe management techniques for a pulseless extremity
- Describe strain/sprain
- List signs and symptoms of a strain/sprain
- Describe management techniques for a strain/sprain
- Describe management techniques for an amputation

Skills:

- Demonstrate proper application of the traction splint
- Demonstrate various techniques to splint an injured/fractured extremity (elbow, arm, leg, ankle, bent leg)

### **Trauma 4**

#### ***Head, Neck, Facial, and Spinal Trauma***

- Describe the anatomy of the head, neck, face and spine
- List types of facial injuries (face, nose, dental, eye)
- List signs and symptoms of a facial injury
- Describe management techniques for a facial injury
- List types of neck injuries
- List signs and symptoms of a neck injury
- Describe management techniques for a neck injury
- List types of head injuries
- List signs and symptoms of a head injury
- Describe management techniques for a head injury
- List types of spinal injuries
- List signs and symptoms of a spinal injury

- Describe management techniques for a spinal injury
- Describe when to remove a helmet or other protective equipment

Skills:

- Demonstrate use of spinal motion restriction for adult and pediatric patients
- Demonstrate proper removal of protective equipment

