

Course Description:

Presents the advanced concepts of out-of-hospital trauma care and critical thinking activities leading to formulation of a field impression and implementation of an appropriate treatment plan and scene management. Includes the kinematics of trauma, assessment, resuscitation, management, monitoring, and transportation of trauma patients across the life span.

Upon completion of this course, the student can:

1. Associate the principles of energy exchange involved in a given situation to the pathophysiology of the human body resulting from that exchange.
2. Analyze the steps involved in assessing and managing the trauma patient using critical thinking, organizational skills, and rational processes.
3. Associate the principles of pathophysiology with physical examination findings to identify and provide treatment for the patient in shock.
4. Identify, compare, and contrast the pathophysiology, management, and potential consequences of specific types of traumatic injury.
5. Explain how trauma emergencies differ from medical emergencies in the scene size-up, assessment, pre-hospital emergency care, and transport.
6. Relate anatomy and physiology and epidemiology of body systems to physical assessment findings, the formulation of a plan of care, management and transportation.
7. Describe the characteristic history and physical exam findings and their implications for the trauma patient.
8. Outline the assessment and management of patients presenting with respiratory and cardiac disturbances.
9. Determine the indications, contraindications, and clinical pharmacology of emergency drugs that may be used in the trauma setting.
10. Integrate academic knowledge with clinical practice to best resolve the clinical question in each patient situation presented.
11. Exercise sufficient judgment and accept responsibility in therapeutic procedures based on observation of patients and knowledge of anatomy, physiology, pharmacology and clinical medicine.
12. Recognize the necessity of modifying therapeutic procedures based on patient's response.
13. Demonstrate personal and professional behaviors for sound legal and ethical practice.