

Course Description:

Provides a detailed study of cardiovascular emergencies and the assessment and management of patients requiring critical intervention. Includes anatomy and physiology, medical terminology, pathophysiology related to cardiac crisis, arrhythmia recognition and 12-lead ECG for field diagnosis, as well as pharmacological and electrical interventions.

Upon completion of this course, the student can:

1. Relate anatomy and physiology and epidemiology of the cardiovascular system to physical assessment findings and the formulation of a plan of care.
2. Describe the characteristic history and physical exam findings and their implications for the cardiac patient.
3. Analyze the pathophysiology, differential diagnosis, and clinical significance of cardiac disturbances, including medical, electrical, and traumatic.
4. Outline the assessment and management of patients presenting with cardiac disturbance.
5. Determine the indications, contraindications, and clinical pharmacology of emergency cardiac drugs including drug-drug and drug-device interactions and pro-arrhythmia potential.
6. Incorporate academic knowledge with clinical practice to best resolve the clinical question in each patient situation presented.
7. Exercise sufficient judgment and accept responsibility in therapeutic procedures based on observation of patients and knowledge of anatomy, physiology, pharmacology, and clinical medicine.
8. Modify therapeutic procedures based on patient's response.
9. Appraise the initiation or modification of cardiac care techniques across the life span in an emergency setting.
10. Demonstrate personal and professional behaviors for sound legal and ethical practice.