

## **example - PHMY 563: Pharmacotherapy of the Critically Ill Patient**

**(current format)**

### **Course Objectives**

At the conclusion of this course, students should be able to:

### **Terminal Performance Outcomes**

- Participate in the development of a patient-specific therapeutic plan for critically ill patients
- Identify the potential for medication-related problems in the critically ill
- Assess therapeutic objectives and outcomes using appropriate monitoring parameters for patients in an ICU setting
- Retrieve, evaluate, and manage scientific information / literature as evidence to support therapeutic recommendations in the critically ill

### **Topic-Specific Objectives**

- Interpret hemodynamic parameters monitored in the ICU setting
- Monitor the management of patients' pain and sedation in the ICU for efficacy and toxicity according to SCCM guidelines
- Select appropriate therapy for sedation and analgesia in the critically ill patient according to SCCM guidelines
- Recommend treatment for patients with common toxicological emergencies
- Recognize risk factors for developing deep vein thrombosis and select an appropriate prophylaxis regimen based on risk stratification found in the CHEST guidelines
- Identify treatment options and corresponding durations of therapy for patients with DVTs, PEs, and HIT
- Identify patients with heparin-induced thrombocytopenia and recommend corresponding therapeutic interventions
- Interpret acid/base disturbances based on lab values and patient history
- Recommend therapy for various acid/base disorders commonly seen in critically ill patients
- Recommend nutritional therapy for critically ill patients
- Recommend appropriate vasopressor therapy for patients in various states of shock (septic, cardiogenic, hypovolemic)
- Recognize risk factors for developing stress ulcers and select an appropriate prophylaxis regimen based on risk stratification found in the ASHP guidelines
- Recommend therapy for managing patients with cardiovascular emergencies (stroke, hypertensive emergency, and cardiogenic shock)
- Select appropriate antibiotic regimens for critically ill patients
- Select appropriate therapy for patients with acute renal failure
- Participate in the pharmacologic management of patients in cardiopulmonary arrest

**(proposed format)**

**Terminal Performance Outcomes**

- TPO 1: Participate in the development of a patient-specific therapeutic plan
- TPO 6: Educate patients regarding patient-specific therapeutic plans
- TPO 9: Maximize appropriate drug use behaviors
- TPO 10: Participate in the process of monitoring patient outcomes
- TPO 15: Participate in health policy decision-making processes related to drug use

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**Topic-Specific Objectives that will be assessed (5-7 major objectives)**

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