Y34 Medical Critical Care (MICU)

Course ID: MED 797AK/997AK
Discipline: Medicine
Prerequisites: MED 820 Hospital Medicine
Available Sites: Detroit (Ascension St. John Hospital), Midland, Saginaw
Duration: 4 weeks

Description
Students participate in a one-month elective rotation MICU service. Supervised by critical care physicians, fellows, and residents, students will be exposed to the care of critically ill patients, including conditions such as sepsis, respiratory failure, massive hemorrhage and severe acid base/electrolyte abnormalities. Students will gain fundamental knowledge of current techniques and treatment strategies, including hemodynamic monitoring, ventilator support, vasopressor support and sepsis care.

Key Objectives
- Formulate a differential diagnosis based on the clinical findings.
- Discuss the respiratory, cardiovascular, renal, and neurophysiology as well as the pathophysiology associated with trauma, toxicology, shock, sepsis, and cardiac failure.
- Discuss the principles of invasive hemodynamic monitoring and the appropriate use thereof in the care of critically ill or injured patients.
- Discuss appropriate management of ventilator patients.
- Discuss the pharmacologic agents of choice (including their indications, contraindications and complications) for the use in patients with: shock, sepsis, dysrhythmias, respiratory failure, congestive heart failure, hepatic failure, and renal failure.
- Discuss the indications for withholding and terminating resuscitation or aggressive medical treatment
- Demonstrate appropriate history and physical examination skills of the critically ill patient.
- Demonstrate the satisfactory performance of common diagnostic and therapeutic procedures (such as: oral endotracheal intubation, nasotracheal intubation, central venous access, arterial line placement).
- Demonstrate the ability to correctly interpret data from hemodynamic monitoring, pulse oximetry, arterial blood gasses, end tidal CO2, and ICP monitors.
- Demonstrate the appropriate management of ventilator patients.
- Demonstrate an understanding of the ethical and legal principles applicable to the care of critically ill patients.
- Demonstrate effective communication skills when participating in disciplinary meetings, department meetings, and hospital staff meetings.
- Develop approach to assessing code status with patients and their families
- Demonstrate the ability to communicate well with patients and family. The resident should demonstrate respect for the health beliefs of other cultures and understand how differing health beliefs affect behavior and medical care.
Assessment Method
College of Medicine standard elective assessment will be completed by supervising faculty at conclusion of elective clerkship.

Scheduling Information
Interested students should contact CMU College of Medicine Department of Distributed Clinical Education at CMEDDCE@cmich.edu.