

## ANES8001

### Surgery Intensive Care AI

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#### Course Goals

1. Develop the attitude, skills, and knowledge to be able to recognize the impact of the global and local health care system and its impact on patient outcomes.
  2. Develop the attitude, skills, and knowledge to help manage critically ill surgical and trauma patients in a tertiary care center.
  3. Develop the attitude, skills, and knowledge to communicate complex medical information with patients and families.
  4. Develop the attitude, skills, and knowledge to carry out the duties of a PGY1 resident.
  5. Develop the attitudes and skills necessary for self-reflection leading to improvement in practice.
  6. Develop the attitude, skills, and knowledge to be able to collaborate within a multi-disciplinary and multi-specialty system to provide optimal care for surgical and trauma patients.
  7. Develop the attitude, skills, and knowledge necessary to exemplify the highest level of professionalism both in typical daily activities of a surgery intern and during times of stress and high patient volumes.
  8. Develop the attitude, skills, and knowledge necessary to apply medical knowledge to clinical diagnostic reasoning in a meaningful way to positively affect patient care and outcomes.
  9. Develop the attitude, skills, and knowledge necessary to use evidence-based medicine in clinical decision-making.
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#### Clinical Learning Objectives

##### Clinical

##### *Interpersonal and Communication Skills*

1. Perform oral presentations that are organized, accurate, complete, concise, and include prioritization, analysis and a plan for each of the medical issues.
2. Complete written communications (and placed on the chart in a timely fashion) that are organized, accurate, complete, concise, and incorporate prioritization and analysis of medical issues.
3. Effectively communicate with team members as exemplified by an ability to take/give sign-out/handoffs from other sub-interns and interns.
4. Effectively relay information to consulting services in such a way that the question for the service is clear.
5. Effectively communicate on a daily basis with other health care providers that are relevant to their teams' discipline, including, but are not limited to: nurses, respiratory therapists, physical/occupational therapists, case managers and doctors of Participate in relating important, management-altering news to patients and family members, participate in end of life discussions or critical issues related to a dramatic change in a patient's lifestyle (performed with more experienced members of the health care team, i.e., Attendings, Fellows, Palliative Care Team).

##### *Interprofessional Collaboration*

1. Interact respectfully with ALL members of the health care team, consultants and fellow physician providers.
2. Demonstrate an understanding of the importance of interdisciplinary team members, consultants and health care resources and how they impact the care and outcomes of a patient's hospital stay.

##### *Medical Knowledge for Practice*

1. Discuss the etiology, clinical manifestations and pathophysiology of common illnesses encountered during the SICU rotation as outlined in the list of core clinical issues.
2. Apply medical knowledge in a meaningful way to positively affect patient care and outcomes.

##### *Patient Care*

1. Demonstrate consistent, complete and adequate data collection during history taking on the common illnesses

encountered during this rotation.

2. Perform a focused physical examination as indicated by the presenting complaint.
3. Correctly and thoroughly perform the following physical examination skills: Cardiovascular, Pulmonary, Abdominal, and Neurologic.
4. Derive a clinically appropriate treatment plan for critically ill patients with respiratory failure, hemodynamic shock, septic shock, or hemorrhagic shock.
5. Interpret the results of diagnostic tests [Basic chemistries including renal function and hepatic function studies, ABG, Cardiac Enzymes, Cultures/Gram Stains, EKG, Radiology (chest, CT scans), and Anesthesia and Brief Surgical Operative Report (including diagrams)], identify appropriate times for ordering such tests, and apply them to the clinical care of a patient.
6. Obtain basic ventilator settings on patients under their care including: FiO<sub>2</sub>, respiratory rate, tidal volume, PEEP, mode of ventilation, peak and plateau pressures.
7. Admit up to 3 patients while on call and function as the intern for up to 5 patients on a non-call day.
8. Receive and send information to a patient's primary surgical service or other relevant healthcare providers, demonstrating an ability to successfully apply the tenets of transitions of care learned during Phase 3.
9. Assess critically ill patients with respiratory failure, hemodynamic shock, septic shock, or hemorrhagic shock, and develop a differential diagnosis for them, and derive a clinically appropriate treatment plan for these clinical issues.

#### *Personal and Professional Development*

1. Incorporate feedback from patients and colleagues in order to improve your personal performance, including but not limited to knowledge base, ability to communicate, efficiency, and responsibility for all aspects of patient care

#### *Practice-Based Learning and Improvement*

1. Apply evidence-based medicine and statistical concepts such as likelihood ratios to make appropriate and meaningful clinical decisions on a daily basis.

#### *Professionalism*

1. Demonstrate a commitment to carrying out professional responsibilities in a timely and efficient manner, including being on time and prepared for rounds and lectures.
2. Interact respectfully with ALL members of the health care team, consultants and fellow physician providers, including being part of a larger "team" taking care of each individual patient.
3. Adhere to ethical principles at all times as exemplified by the highest level of professionalism both in typical daily activities and during times of stress and high patient volumes, including the ability to maintain a professional attitude with challenging patients, colleagues and other staff members.
4. Demonstrate sensitivity to a diverse patient population and culturally competent care by being sensitive to patient differences (race, culture, gender, socioeconomic status) and preferences.

#### *Systems-Based Practice*

1. Identify a medical error, evaluate where the system failed, and offer solutions to prevent the errors from recurring.
2. Demonstrate an understanding of resource utilization.
3. Identify areas where the health care team could have made alternative and accurate, cost effective decisions, including the ability to recognize the need for ordering initial and follow-up tests based on clinically-indicated parameters.

### **Observed Advanced Communication Project**

#### *Interpersonal and Communication Skills*

1. Conduct a challenging communication scenario, such as breaking bad news, negotiating end of life and goals of care discussions, or actively participating in challenging patient/family meetings.

#### *Personal and Professional Development*

1. Receive and respond productively to feedback from faculty, residents, interprofessional team members and peers.

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## **Didactic Learning Objectives**

### **Mid-Point Feedback**

1. Discuss an example utilizing feedback; the circumstances regarding the situation; how the feedback and outcome changed behavior; and self-reflection surrounding the feedback.

### **Practice-based Improvement Topic Presentation**

1. Research, prepare, and give an oral presentation on a surgical/trauma topic of choice to the SICU team and faculty.

### **Quality Improvement Project**

1. Identify a patient hospitalization that incurred one or more medical errors.
2. Identify potential system-based solutions that could prevent similar errors.
3. Apply basic principles of quality improvement within the healthcare setting.