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| FOURTH YEAR ELECTIVE TITLE ADVANCED SELECTIVE IN CRITICAL CARE | | COURSE NUMBER CRIT 8901 | LOCATION ROBERT WOOD JOHNSON UNIVERSITY HOSPITAL/ JERSEY SHORE UNIVERSITY MEDICAL CTR |
| COURSE DIRECTORS DYLAN NIEMAN, MD, PhD | FACULTY CRITICAL CARE FACULTY | CONTACT DN301@RWJMS.RUTGERS.EDU | CONTACT PHONE/FAX/EMAIL Ph: 732-235-5974 Fax: 732-235-7079 gail.bellfield@rwjms.rutgers.edu |
| BLOCKS AVAILABLE ALL EXCEPT BLOCK 6 | DURATION/WEEKS MIN 4; MAX 4 | HOURS PER WEEK VARIES | STUDENTS MAX 4 |
| LECTURES/SEMINARS YES | OUTPATIENT NO | INPATIENT YES | HOUSESTAFF YES |
| NIGHT CALL YES | WEEKENDS YES | LAB NO | EXAM REQUIRED NO |

NOTE: Available sites are:

- **Robert Wood Johnson University Hospital – Medicine**
- **Robert Wood Johnson University Hospital – Surgery**
- **Jersey Shore University Medical Center - Medicine**
- **Jersey Shore University Medical Center – Surgery**

OVERALL EDUCATIONAL GOAL OF ELECTIVE

The Clerkship is the culmination of the required experiences in both Surgery and Medicine, providing the student with the opportunity to apply the knowledge learned in the third year and gain additional experience in the direct clinical management of acutely ill patients in a critical care environment. This Clerkship is focused on the “acute” patient in the intensive care unit. The student will actively participate on a critical care team in a surgical or medical unit working with faculty and other care providers. The educational experience will include supervised clinical experiences, didactic lectures, case based learning and self-study.

OBJECTIVES

- I. Patient care** Students must be prepared to provide patient care that is compassionate, appropriate, and effective.
- II. Medical knowledge** Students must demonstrate knowledge about established and evolving basic and clinical biomedical sciences, including epidemiology and social/behavioral sciences, & their application of this knowledge to patient care.
- III. Practice-based learning and improvement** Students must be able to engage in self-evaluation regarding their academic & clinical performance, develop plans for personal improvement, and recognize how the application of new learning can be used to improve patient care.
- IV. Interpersonal and communication skills** Students must be able to demonstrate interpersonal & communication skills, both verbal and written, that results in effective information exchange with patients, patients’ families, peers, and other health professions colleagues.
- V. Professionalism** Students must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles & sensitivity to a diverse patient population.
- VI. Systems-based Practice** Students will be able to function effectively in teams and within a larger organizational structure. They must demonstrate an awareness of the larger context & system of health care and of the resources available within the system to provide optimal care to individual patients and groups. Finally, students must demonstrate an awareness of current barriers to health care and of the various strategies designed to assist patients in gaining access to care.

OBJECTIVES

Students will:

- 1) develop skills required for the initial evaluation of an acutely ill patient
- 2) Gain experience in a critical care environment performing invasive diagnostic and therapeutic procedures
- 3) Develop higher level function in the management of perioperative and intensive care unit patients

BRIEF DESCRIPTION OF ACTIVITIES

The student will participate in all aspects of ICU care while practicing all infection control & universal precaution procedures. Learning the philosophy, priorities and techniques of initial resuscitation and evaluation of patients with injury, operative stress, respiratory failure and shock as well as understanding the pathophysiology, clinical manifestations & differential diagnosis of shock and understanding the principles of preventative ICU monitoring of unstable or potentially unstable patients (i.e. monitoring for neurologic deterioration, signs of hemorrhage, cardiac dysrhythmias, impending respiratory failure, etc.). Student will demonstrate their knowledge in patient care by recognizing, treating and preventing complications of injury, respiratory failure and shock learn the principles of managing patients in a complex, multidiscipline environment requiring effective communication between patients, multiple health professionals and families. Develop and implement plans of treatment of patients in shock, acute trauma patients and post-operative patients in the ICU while understanding the pathophysiology and clinical manifestations of pulmonary, cardiac, renal nutritional and multi-system organ failure. Students will learn the basic principles and commonly used modes of mechanical ventilation & be able to prescribe ventilator settings; understand the principles, indications, limitation and physiology of invasive monitoring techniques (e.g. arterial & central venous catheters, pulmonary artery catheters, intracranial pressure monitors) and be able to interpret the information obtained. The students will perform emergency and daily physical examinations on critically ill patients and prepare progress notes in the ICU under supervision while working with ancillary personnel (nurses, lab & x-ray techs, etc.) in a collaborative fashion.

METHOD OF EVALUATION

The students have daily dialogs with the faculty and receive frequent formative feedback during the rotation. The mechanism for determination of students' final grades is identical at all sites. The final grade reflects: Clinical Experience and Didactic Education. The Student works as an integral member of a critical care team providing patient care under the supervision of attending faculty. There are Core and Case-Based Learning lectures featuring both traditional and problem focused teaching experiences. The Students will attend conferences and teaching rounds which include ICU, Case, Surgical & Medical rounds, as well as Mentor conferences. Self-directed learning will require use of Radiology computer programs, WebCT files and textbooks. The final grade is decided by weighting the Faculty Global Assessment Evaluation Form (60%); the final Oral Presentation (20%) and Case Presentations (20%).