Family Medicine Residency
ICU Rotation
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Rotation Goals

The main goal of the ICU rotation is to provide residents with experience with admission, evaluation, and treatment of critically ill patients. As well as strengthen the interaction with subspecialty physicians who are mutually caring for critically ill patients.

By the completion of the rotation, residents will become familiar with the following goals:

- manage critically ill adult medicine patients during hospital stay
- independently manage common ICU conditions with appropriate supervision
- recognize and respond to clinical deterioration both appropriately and rapidly
- understand ventilator management of patients with respiratory failure including successful weaning
- perform core ICU procedures competently
- communicate effectively within a multidisciplinary team, with patients, and with families
- understand and appreciate methods of evaluation and treatment of critically ill patients from the point of view of Board Certified Pulmonary/Critical Care Sub specialist
- stay up to date on reading and newest research as it relates to the critical care setting

Supervision

Direct observation is provided by Intensivist in the ICU

Weekly Schedule

Typically M-F (0700-1900) with exception of UT clinic obligations

Rotation Objectives

By the end of the ICU rotation, PGY-II residents are expected to expand and cultivate skills and knowledge learned during previous training and to achieve the following objectives based on the six general competencies. The resident should exhibit an increasing level of responsibility and independency as he or she progresses throughout the year. Rotation goals are broken down further in the following pages.

Competency	Required Skill(s)	Teaching Method(s)	Formative Evaluation Method(s)	Frequency of Evaluation
Patient Care	**SPECIALTY SPECIFIC OBJECTIVES**			
	Perform a comprehensive history and physical examination of the adult patient.	Conferences/Didactics Daily Rounds Research Discussions Self-Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Develop a rational plan of care for patients (including diagnostic testing, initiation and alteration of medications, and need for specialty consultation)	Conferences/Didactics Daily Rounds Research Discussions Self-Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Integrate evidence-based medicine, local standards of care, nationally defined quality care markers and specialty recommendations upon consultation.	Conferences/Didactics Daily Rounds Research Discussions Self- Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Interpret appropriate ethical considerations of the critically ill including discussions of "DNR/DNI" status, initiation and/or withdrawal of artificial nutrition and IV hydration, appropriate surgical intervention for placement of permanent airways for ventilator dependent patients and PEG tube placement	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Maintain adequate, compassionate communication between multidisciplinary teams, patients, and patients families	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Diagnose and manage fluid and electrolyte disorders including hypo/hyperkalemia, hypo/hypernatremia, hypo/hypercalcemia, and acidosis/alkalosis	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Under direct supervision perform the following procedures generally performed on ICU patients: • Arterial blood gas evaluation (10) • Chest x-ray interpretation (10) • Optional but suggested: central lines, arterial lines, intubations, thoracentesis, paracentesis, POCUS, etc	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly

Medical Knowledge	**SPECIALTY SPECIFIC OBJECTIVES**			
	Develop an understanding of normal anatomy and physiology and apply it to the diagnosis and treatment of ICU patients.	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Implement knowledge of current protocols and standards of care for critically ill patients	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Know ACLS/BLS and be able to effectively preform under the protocols when indicated	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Understand clinical situations in which endotracheal intubation is necessary and the proper mechanisms/techniques of intubation into patient care including RSI	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Develop an understanding of cardiovascular conditions including cardiac arrest, myocardial infarction, dysrhythmias, congestive heart failure, hypertension, cardiomyopathies, pericarditis and coronary artery disease.	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Develop an understanding of gastrointestinal disorders including upper/low GIB, hepatitis, cirrhosis, pancreatitis, colitis, diverticulitis, cholecystitis, peptic ulcer disease, and bowel obstruction.	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Develop an understanding of endocrine conditions including diabetes mellitus, thyroid disorders, adrenal diseases, and lipid disorders.	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Develop an understanding of renal conditions including acidosis, urinary tract infections, nephrolithiasis, acute and chronic renal failure and obstruction.	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Develop an understanding of hematologic conditions including anemia, coagulopathies, mononucleosis, polycythemia, and major hemoglobinopathies.	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly

	Develop an understanding of musculoskeletal conditions including back pain, rheumatoid arthritis, collagen vascular diseases and osteoarthritis	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Develop an understanding of infectious diseases (bacterial, viral, and fungal) that are commonly encountered in the critically ill population	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Develop an understanding of neurological conditions including stroke/TIA's, seizures, meningitis, coma, movement disorders, dementia, delirium, nerve entrapment syndromes and tumors.	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Develop an understanding of pulmonary disorders including asthma, COPD, bronchitis, pneumonia, thromboembolism, fibrosis, neoplasms, respiratory failure and evaluation of pulmonary function testing.	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Develop adequate knowledge of the common disorders of the critically ill adult medical patient as managed by board certified sub specialist in Pulmonology/Critical Care.	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Develop an understanding of central venous access placement and care and apply knowledge to patient care	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly

Practice Based Learning and Improvement	**SPECIALTY SPECIFIC OBJECTIVES**			
	See General Family Medicine Objectives for a comprehensive list.			
	Self-Assessment & Reflective Practice	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Evidence-Based Medicine Review and Application	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Incorporation of Feedback	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
Interpersonal and Communication Skills	**SPECIALTY SPECIFIC OBJECTIVES**			
	See General Family Medicine Objectives for a comprehensive list.			
	Communicate effectively with patients and their families while in the presence of their daily preceptor.	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Convey information in a clear and concise manner to patients, families, and other health professionals (i.e., use appropriate vocabulary choice, realistic outcomes, and working with difficult patients and family)	Conferences/Didactics Daily Rounds Research Discussions Self-Directed learning	Direct Feedback Global Evaluation	Daily Monthly

Professionalism	**SPECIALTY SPECIFIC OBJECTIVES**			
	See General Family Medicine Objectives for a comprehensive list.			
	Provide compassionate and high-quality care to all patients regardless of gender, age, culture, race, religion, disabilities, sexual orientation or socioeconomic class	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Determine best methods for consultation of subspecialty physicians while caring for the critically ill adult medicine patient	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Behave in a professional manner when interacting with patients or other health care providers	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
Systems-Based Practice	**SPECIALTY SPECIFIC OBJECTIVES**			
	See General Family Medicine Objectives for a comprehensive list.			
	Develop a better understanding of the role of subspecialty medicine in appropriate consultation of other specialty providers for the critically ill patient so as to minimize morbidity and mortality while also minimizing time spent in the critical care department	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Understand the interactivity between subspecialty providers to maximize survival and stabilization	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Advocate for quality patient care and optimal patient care systems	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Determine appropriate timing for transfer of patients into or out of the critical care setting/ICU	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly

Educational Resources

www.uptodate.com (available free through www.utdol.com in Jackson General Hospital based computers)
The Washington Manual of Medical Therapeutics, 2nd edition
Practical Guide to The Care of the Medical Patient, Fred Ferri 6th edition
www.epocrates.com
www.openevidence.com
www.emedicine.com
ACLS Handbook
Tarascon Internal Medicine
Current Clinical Strategies in Family Medicine 2006 edition
Additional information provided specifically by preceptor prior to beginning rotation.