

**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, treatment and interaction with subspecialty physicians of adult intensive care patients.

The resident will become familiar with the following goals:

- manage critically ill adult medicine patients during hospital stay
- ventilator management of patients with respiratory failure
- protocols and mechanisms for successfully weaning patients from ventilator
- review the latest research regarding care of critically ill adult medicine patients
- 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.

**Supervision**

Direct observation is provided by Intensivist in the ICU

**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.

Competency	Required Skill(s)	Teaching Method(s)	Formative Evaluation Method(s)	Frequency of Evaluation
Patient Care	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	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 specialty consultation.	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Develop skills that allow for up to date, compassionate care of the adult patient admitted to the intensive care unit while	Conferences/Didactics Daily Rounds	Direct Feedback Global Evaluation	Daily Monthly

	integrating evidence based medicine, local standards of care, nationally defined quality care markers and specialty recommendations upon consultation.	Research Discussions Self Directed Learning		
	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 the patient and medical staff.	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Manage and diagnose fluid and electrolyte disorders including hypo/hyperkalemia, hypo/hyponatremia, 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: <ul style="list-style-type: none"> <li>• Arterial blood gas evaluation (10)</li> <li>• Chest x-ray interpretation (10)</li> </ul>	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
Medical Knowledge	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	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 into patient care	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Develop an understanding of ACLS/BLS protocols for unstable patients	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly

Apply guidelines to initiate endotracheal intubation and proper mechanisms/techniques of intubation into patient care.	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 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 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 adult 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	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	See General Family Medicine Objectives for a comprehensive list.			
	Develop tools to help meet the needs of patients	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Incorporate evidence-based medicine and resources into the care of ENT patients.	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
	Review current literature relevant to the care of individual patients and the community.	Conferences/Didactics Daily Rounds Research Discussions Self Directed Learning	Direct Feedback Global Evaluation	Daily Monthly
Interpersonal and Communication Skills	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	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	Conferences/Didactics Daily Rounds Research Discussions	Direct Feedback Global Evaluation	Daily Monthly

	working with difficult patients and family)	Self Directed Learning		
Professionalism	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	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	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	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
	Incorporate considerations of cost awareness and risk-benefit analysis in patient care	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
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**Educational Resources**

[www.uptodate.com](http://www.uptodate.com) (available free through [www.utdol.com](http://www.utdol.com) in Jackson General Hospital based computers)

The Washington Manual of Medical Therapeutics, 2<sup>nd</sup> edition

Practical Guide to The Care of the Medical Patient, Fred Ferri 6<sup>th</sup> edition

[www.epocrates.com](http://www.epocrates.com)

[www.emedicine.com](http://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.