

**Family Medicine Residency**

**Cardiology Rotation**

**Faculty Coordinator: Gregg Mitchell, MD**

**Rotation Goal**

The Cardiology component in the Family Medicine Residency provides the residents with the knowledge, skills and attitudes to competently manage a variety of cardiac care situations and utilize the consultant process peculiar to cardiology. The resident will develop skills that allow for up to date, compassionate care of the adult and pediatric patient in cardiology while integrating evidence based medicine, local standards of care, nationally defined quality care markers and specialty recommendations upon consultation. The resident will develop the appropriate knowledge, skills and attitudes through a variety of educational experiences including conferences and didactic programs during the three year program. The residents will also receive pediatric cardiology exposure during their pediatric blocks. The resident will be with the cardiology attending for a four week block during the PGY 3 year and expected to work five half days per week (96 hours) and a minimum of four half days will be spent with Pediatric cardiology (16 hours). The minimum amount of contact hours is 112. Each resident will be evaluated on the six core competencies at the end of their rotation by the attending physician.

Residents will become familiar with the following:

- Obtaining adequate information through history and physical examination with assistance as needed from attending physicians.
- Writing orders for cardiac care patients including labs and studies for further diagnostic evaluation and treatments.
- Evaluation of patients with unstable vital signs and incorporating ACLS/ACLS-EP/PALS protocol into resuscitation of patients as needed.
- Quality care markers and published guidelines for specific disease states such as congestive heart failure, acute coronary syndromes, hypertension and hyperlipidemia.
- Become familiar with the relationship of cardiology as a consultant in the management of patients

**Supervision**

Direct observation of the resident is provided by the attending cardiology physicians. Attending Physicians include John Baker M.D., Jim Crenshaw M.D., Chibuzo Nwokolo, MD and Abdul Rashid MD. Their offices are located in the Physicians Tower, 700 West Forrest Ave, Jackson, TN 38301. 731-422-0213.

**Rotation Objectives**

By the end of the Cardiology rotation, PGY-3 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>			
	Obtain adequate information through history and physical examination with assistance as needed from attending	Conferences/Didactics Daily Rounds	Direct Feedback Global Evaluation	Daily Monthly

physicians.	Clinical Teaching Self Directed Learning	Procedure certification In-training Exam	Quarterly Annually
Write orders for cardiac care patients including labs and studies for further diagnostic evaluation and treatments	Conferences/Didactics Daily Rounds Clinical Teaching Self Directed Learning	Direct Feedback Global Evaluation Procedure certification In-training Exam	Daily Monthly Quarterly Annually
Evaluate patients with unstable vital signs and incorporating ACLS-EP/ACLS/PALS protocol into resuscitation of patients as needed	Conferences/Didactics Daily Rounds Clinical Teaching Self Directed Learning	Direct Feedback Global Evaluation Procedure certification In-training Exam	Daily Monthly Quarterly Annually
Analyze quality care markers and published guidelines for specific disease states such as congestive heart failure , acute coronary syndromes, hypertension and hyperlipidemia	Conferences/Didactics Daily Rounds Clinical Teaching Self Directed Learning	Direct Feedback Global Evaluation Procedure certification In-training Exam	Daily Monthly Quarterly Annually
Develop familiarity with the relationship of cardiology as a consultant in the management of patients	Conferences/Didactics Daily Rounds Clinical Teaching Self Directed Learning	Direct Feedback Global Evaluation Procedure certification In-training Exam	Daily Monthly Quarterly Annually
Perform an adequate history and physical examination of the adult and pediatric cardiology patient including differentiation of normal and abnormal heart sounds	Conferences/Didactics Daily Rounds Clinical Teaching Self Directed Learning	Direct Feedback Global Evaluation Procedure certification In-training Exam	Daily Monthly Quarterly Annually
Develop a rational plan of care for patients including diagnostic testing and initiation and alteration of medications	Conferences/Didactics Daily Rounds Clinical Teaching Self Directed Learning	Direct Feedback Global Evaluation Procedure certification In-training Exam	Daily Monthly Quarterly Annually
Maintain adequate, compassionate communication between the patient and medical staff	Conferences/Didactics Daily Rounds Clinical Teaching Self Directed Learning	Direct Feedback Global Evaluation Procedure certification In-training Exam	Daily Monthly Quarterly Annually
Establish a reasonable and safe method of outpatient follow-up of patients upon discharge or admission to the hospital	Conferences/Didactics Daily Rounds Clinical Teaching Self Directed Learning	Direct Feedback Global Evaluation Procedure certification In-training Exam	Daily Monthly Quarterly Annually
Develop skills in the following procedures commonly performed cardiology which should be documented into New Innovations Procedure Logger	Conferences/Didactics Daily Rounds Clinical Teaching	Direct Feedback Global Evaluation Procedure certification	Daily Monthly Quarterly

	<ul style="list-style-type: none"> <li>• Medical Resuscitation</li> <li>• X-Ray Interpretation</li> <li>• EKG Interpretation</li> <li>• Central Venous Access including with USG Guidance</li> <li>• Exercise Stress Testing</li> </ul>	Self Directed Learning	In-training Exam	Annually
	Evaluate and manage patients with the following cardiac problems including but not limited to: <ul style="list-style-type: none"> <li>• Valvular disorders</li> <li>• Acute Chest Pain</li> <li>• Shock</li> <li>• Thromboembolic Disorders</li> </ul>	Conferences/Didactics Daily Rounds Clinical Teaching Self Directed Learning	Direct Feedback Global Evaluation Procedure certification In-training Exam	Daily Monthly Quarterly Annually
	Manage anticoagulation therapy	Conferences/Didactics Daily Rounds Clinical Teaching Self Directed Learning	Direct Feedback Global Evaluation Procedure certification In-training Exam	Daily Monthly Quarterly Annually
Medical Knowledge	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Demonstrate certification in each of the following areas: <ul style="list-style-type: none"> <li>• ACLS/ACLS-EP Certification</li> <li>• PALS Certification</li> <li>• ALSO certification</li> <li>• ATLS Certification(encouraged but not required)</li> </ul>	Conferences/Didactics Daily Rounds Clinical Teaching Self Directed Learning	Direct Feedback Global Evaluation Procedure certification In-training Exam	Daily Monthly Quarterly Annually
	Develop an understanding of the various cardiovascular conditions, including cardiac arrest, myocardial infarction, dysrhythmias (ex.- Atrial fib, PSVT, WPW, VTach and sudden cardiac death), congestive heart failure, hypertension, cardiomyopathies, pericarditis, unstable and stable angina and coronary artery disease	Conferences/Didactics Daily Rounds Clinical Teaching Self Directed Learning	Direct Feedback Global Evaluation Procedure certification In-training Exam	Daily Monthly Quarterly Annually
	Prescribe appropriate pharmacologic agents for cardiac disorders	Conferences/Didactics Daily Rounds Clinical Teaching Self Directed Learning	Direct Feedback Global Evaluation Procedure certification In-training Exam	Daily Monthly Quarterly Annually
	Demonstrate adequate knowledge of the common disorders of the adult and pediatric cardiac patient with assistance from upper level residents, attending physicians and faculty.	Conferences/Didactics Daily Rounds Clinical Teaching Self Directed Learning	Direct Feedback Global Evaluation Procedure certification In-training Exam	Daily Monthly Quarterly Annually

	Describe the indications and limitations for/of invasive procedures: Cardiac Catheterization CTA Coronary arteries Exercise Stress Testing Electrophysiology studies CABG Valve Replacement Pacemaker Placement Implantable Defibrillator Placement	Conferences/Didactics Daily Rounds Clinical Teaching Self Directed Learning	Direct Feedback Global Evaluation Procedure certification In-training Exam	Daily Monthly Quarterly Annually
	Develop an in-depth understanding of normal anatomy and physiology of the cardiovascular system	Conferences/Didactics Daily Rounds Clinical Teaching Self Directed Learning	Direct Feedback Global Evaluation Procedure certification In-training Exam	Daily Monthly Quarterly Annually
Practice Based Learning and Improvement	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	See General Family Medicine Objectives for a comprehensive list.			
	Utilize evidence-based resources in the care of cardiac patients.	Conferences/Didactics Daily Rounds Clinical Teaching Self Directed Learning	Direct Feedback Global Evaluation Procedure certification In-training Exam	Daily Monthly Quarterly Annually
	Maintain a list of journal articles that have been reviewed on a monthly basis.	Conferences/Didactics Daily Rounds Clinical Teaching Self Directed Learning	Direct Feedback Global Evaluation Procedure certification In-training Exam	Daily Monthly Quarterly Annually
Interpersonal and Communication Skills	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	See General Family Medicine Objectives for a comprehensive list.			
	Effectively communicate with patients and family members in the presence of cardiology attending physicians.	Conferences/Didactics Daily Rounds Clinical Teaching Self Directed Learning	Direct Feedback Global Evaluation Procedure certification In-training Exam	Daily Monthly Quarterly Annually
	Describe the best approaches to choosing appropriate vocabulary, describing realistic outcomes, and working with “difficult” patients and family.	Conferences/Didactics Daily Rounds Clinical Teaching Self Directed Learning	Direct Feedback Global Evaluation Procedure certification In-training Exam	Daily Monthly Quarterly Annually
Professionalism	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			

	See General Family Medicine Objectives for a comprehensive list.			
	Behave in a professional manner towards patients, their families, nursing and all ancillary staff	Conferences/Didactics Daily Rounds Clinical Teaching Self Directed Learning Press Gainey Survey	Direct Feedback Global Evaluation Procedure certification In-training Exam	Daily Monthly Quarterly Annually
Systems-Based Practice	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	See General Family Medicine Objectives for a comprehensive list.			
	Compare and utilize various ancillary modalities of patient care that are available including physical and occupational therapy, speech therapy, wound care, nutritional education and cardiac rehabilitation.	Conferences/Didactics Daily Rounds Clinical Teaching Self Directed Learning	Direct Feedback Global Evaluation In-training Exam	Daily Monthly Annually

Educational Resources

1. [www.uptodate.com](http://www.uptodate.com)

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

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

4. ACLS Handbook

5. JNC Guidelines- <http://jama.jamanetwork.com/article.aspx?articleid=1791497>

6. Cholesterol guidelines: [http://www.heart.org/HEARTORG/Conditions/Understanding-the-New-Prevention-Guidelines\\_UCM\\_458155\\_Article.jsp](http://www.heart.org/HEARTORG/Conditions/Understanding-the-New-Prevention-Guidelines_UCM_458155_Article.jsp)

7. <http://www.americanheart.org/presenter.jhtml?identifier=9181> Review management of Acute Coronary Syndrome, Chronic Angina, Heart failure and Pre-Op Evaluation

8. Procedures for Primary Care Physicians, John Pfenniger and Grant Fowler

9. <http://ecg.bidmc.harvard.edu/maven/mavenmain.asp> for ECG reading and examples

10. *Rapid Interpretation of EKG's*, Sixth Edition, Dale Dubin MD

11. USPSTF hypertension recommendations for primary care practice- <https://www.uspreventiveservicestaskforce.org/BrowseRec/Search?s=hypertension>

12. 2019 ACC/AHA guideline on primary prevention of cardiovascular disease- <https://www.acc.org/latest-in-cardiology/ten-points-to-remember/2019/03/07/16/00/2019-acc-aha-guideline-on-primary-prevention-gl-prevention>

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