

**Primary Care Ambulatory Rotation:  
Noninvasive Cardiology and Allergy/Immunology (one month)**

**Goals:**

The resident will demonstrate competence in interpreting electrocardiograms and in performing exercise treadmill testing. The resident will also demonstrate competence in the evaluation and management of common problems in clinical allergy.

**Objectives:**

By the end of the Primary Care Ambulatory Rotation: Noninvasive Cardiology and Allergy/Immunology, PGY-1 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>			
	Interpret correctly at least 10 electrocardiograms daily	Clinical Teaching	ABIM Global Assessment Form  Written examination at end of rotation  Procedure Log	
	Identify the indications and contraindications for the following non-invasive cardiac tests: treadmills (low level, submaximal, symptom-limited), cardiac scintigraphy, and stress echocardiography.	Clinical Teaching	ABIM Global Assessment Form  Written examination at end of rotation  Procedure Log	
	Supervise at least 50 treadmills during the elective	Clinical Teaching	ABIM Global Assessment Form  Written examination at end of rotation  Procedure Log	
	Determine which patients can be managed by an office-based internist and which must be referred to an allergist.	Clinical Teaching	ABIM Global Assessment Form  Written examination at end of rotation	

			Procedure Log	
	<p>Diagnose the following illnesses and demonstrate their relationship to allergic diseases:</p> <ul style="list-style-type: none"> <li>• Chronic obstructive pulmonary disease</li> <li>• Acute and chronic otitis media</li> <li>• Acute and chronic sinusitis</li> <li>• Erythema multiform</li> <li>• Other urticaria-like skin rashes</li> <li>• Contact dermatitis</li> </ul>	Clinical Teaching	<p>ABIM Global Assessment Form</p> <p>Written examination at end of rotation</p> <p>Procedure Log</p>	
	<p>Diagnose and manage patients with the following medical conditions including but not limited to:</p> <ul style="list-style-type: none"> <li>• Rhinitis (allergic and non-allergic)</li> <li>• Asthma (allergic and non-allergic)</li> <li>• Acute and chronic urticaria</li> <li>• Anaphylaxis</li> </ul>	Clinical Teaching	<p>ABIM Global Assessment Form</p> <p>Written examination at end of rotation</p> <p>Procedure Log</p>	
	<p>Formulate a differential diagnosis, approach to therapy, and pharmacologic principles applicable to these disorders.</p>	Clinical Teaching	<p>ABIM Global Assessment Form</p> <p>Written examination at end of rotation</p> <p>Procedure Log</p>	
	<p>Explain the mechanisms for allergic disease to include allergic early phase reaction, allergic late phase reaction, bronchial and nasal hyperreactivity, the role of cells and mediators in the allergic reaction (e.g., eosinophil, mast cell and lymphocyte).</p>	Clinical Teaching	<p>ABIM Global Assessment Form</p> <p>Written examination at end of rotation</p> <p>Procedure Log</p>	
Medical Knowledge	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
Practice Based Learning and Improvement	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	See General Internal Medicine Objectives for a comprehensive list.			
Interpersonal and Communication Skills	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	See General Internal Medicine Objectives for a comprehensive list.			
Professionalism	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	See General Internal Medicine Objectives for a			

	comprehensive list.			
Systems-Based Practice	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	See General Internal Medicine Objectives for a comprehensive list.			

By the end of the Primary Care Ambulatory Rotation: Noninvasive Cardiology and Allergy/Immunology, PGY-2 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>			
	Interpret correctly at least 10 electrocardiograms daily	Clinical Teaching	ABIM Global Assessment Form  Written examination at end of rotation  Procedure Log	
	Identify the indications and contraindications for the following non-invasive cardiac tests: treadmills (low level, submaximal, symptom-limited), cardiac scintigraphy, and stress echocardiography.	Clinical Teaching	ABIM Global Assessment Form  Written examination at end of rotation  Procedure Log	
	Supervise at least 50 treadmills during the elective	Clinical Teaching	ABIM Global Assessment Form  Written examination at end of rotation  Procedure Log	
	Determine which patients can be managed by an office-based internist and which must be referred to an allergist.	Clinical Teaching	ABIM Global Assessment Form  Written examination at end of rotation  Procedure Log	
	Diagnose the following illnesses and demonstrate their relationship to allergic diseases:	Clinical Teaching	ABIM Global Assessment Form	

	<ul style="list-style-type: none"> <li>• Chronic obstructive pulmonary disease</li> <li>• Acute and chronic otitis media</li> <li>• Acute and chronic sinusitis</li> <li>• Erythema multiform</li> <li>• Other urticaria-like skin rashes</li> <li>• Contact dermatitis</li> </ul>		<p>Written examination at end of rotation</p> <p>Procedure Log</p>	
	<p>Diagnose and manage patients with the following medical conditions including but not limited to:</p> <ul style="list-style-type: none"> <li>• Rhinitis (allergic and non-allergic)</li> <li>• Asthma (allergic and non-allergic)</li> <li>• Acute and chronic urticaria</li> <li>• Anaphylaxis</li> </ul>	Clinical Teaching	<p>ABIM Global Assessment Form</p> <p>Written examination at end of rotation</p> <p>Procedure Log</p>	
	Formulate a differential diagnosis, approach to therapy, and pharmacologic principles applicable to these disorders.	Clinical Teaching	<p>ABIM Global Assessment Form</p> <p>Written examination at end of rotation</p> <p>Procedure Log</p>	
	Explain the mechanisms for allergic disease to include allergic early phase reaction, allergic late phase reaction, bronchial and nasal hyperreactivity, the role of cells and mediators in the allergic reaction (e.g., eosinophil, mast cell and lymphocyte).	Clinical Teaching	<p>ABIM Global Assessment Form</p> <p>Written examination at end of rotation</p> <p>Procedure Log</p>	
Medical Knowledge	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
Practice Based Learning and Improvement	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	See General Internal Medicine Objectives for a comprehensive list.			
Interpersonal and Communication Skills	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	See General Internal Medicine Objectives for a comprehensive list.			
Professionalism	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	See General Internal Medicine Objectives for a comprehensive list.			
Systems-Based	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			

Practice	See General Internal Medicine Objectives for a comprehensive list.			
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By the end of the Primary Care Ambulatory Rotation: Noninvasive Cardiology and Allergy/Immunology, 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>			
	Interpret correctly at least 10 electrocardiograms daily	Clinical Teaching	ABIM Global Assessment Form  Written examination at end of rotation  Procedure Log	
	Identify the indications and contraindications for the following non-invasive cardiac tests: treadmills (low level, submaximal, symptom-limited), cardiac scintigraphy, and stress echocardiography.	Clinical Teaching	ABIM Global Assessment Form  Written examination at end of rotation  Procedure Log	
	Supervise at least 50 treadmills during the elective	Clinical Teaching	ABIM Global Assessment Form  Written examination at end of rotation  Procedure Log	
	Determine which patients can be managed by an office-based internist and which must be referred to an allergist.	Clinical Teaching	ABIM Global Assessment Form  Written examination at end of rotation  Procedure Log	
	Diagnose the following illnesses and demonstrate their relationship to allergic diseases: <ul style="list-style-type: none"> <li>• Chronic obstructive pulmonary disease</li> <li>• Acute and chronic otitis media</li> <li>• Acute and chronic sinusitis</li> </ul>	Clinical Teaching	ABIM Global Assessment Form  Written examination at end of rotation	

	<ul style="list-style-type: none"> <li>• Erythema multiform</li> <li>• Other urticaria-like skin rashes</li> <li>• Contact dermatitis</li> </ul>		Procedure Log	
	Diagnose and manage patients with the following medical conditions including but not limited to: <ul style="list-style-type: none"> <li>• Rhinitis (allergic and non-allergic)</li> <li>• Asthma (allergic and non-allergic)</li> <li>• Acute and chronic urticaria</li> <li>• Anaphylaxis</li> </ul>	Clinical Teaching	ABIM Global Assessment Form  Written examination at end of rotation  Procedure Log	
	Formulate a differential diagnosis, approach to therapy, and pharmacologic principles applicable to these disorders.	Clinical Teaching	ABIM Global Assessment Form  Written examination at end of rotation  Procedure Log	
	Explain the mechanisms for allergic disease to include allergic early phase reaction, allergic late phase reaction, bronchial and nasal hyperreactivity, the role of cells and mediators in the allergic reaction (e.g., eosinophil, mast cell and lymphocyte).	Clinical Teaching	ABIM Global Assessment Form  Written examination at end of rotation  Procedure Log	
Medical Knowledge	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
Practice Based Learning and Improvement	<b>SPECIALTY SPECIFIC OBJECTIVES</b> See General Internal Medicine Objectives for a comprehensive list.			
Interpersonal and Communication Skills	<b>SPECIALTY SPECIFIC OBJECTIVES</b> See General Internal Medicine Objectives for a comprehensive list.			
Professionalism	<b>SPECIALTY SPECIFIC OBJECTIVES</b> See General Internal Medicine Objectives for a comprehensive list.			
Systems-Based Practice	<b>SPECIALTY SPECIFIC OBJECTIVES</b> See General Internal Medicine Objectives for a comprehensive list.			

**Learning Venues:**

The resident will spend each morning (7:30-11:30 a.m.) in the Baptist Hospital non-invasive cardiology laboratory reading EKGs and performing treadmills under the personal supervision of Dr. Otis Warr (683-2161). At least 50 treadmills must be performed for certification. Marriott's Practical Electrocardiography is highly recommended.

For allergy/immunology, the resident will spend the afternoons with Dr. Phil Lieberman in the office at 300 Walnut Bend South (Cordova). He has a large, general allergy practice. The resident will see patients followed by a presentation to the attending. During this discourse the resident should write down questions since there may not be time during the presentation to discuss the issues involved. Each day cases and questions that the resident has will be discussed. At the same time the resident will be given a question dealing with the above conditions, their pathophysiology, their treatment, and their differential diagnosis. References are provided by Dr. Lieberman's office. In addition both the web-based ambulatory syllabus and Goroll's Primary Care Medicine text are helpful sources.

**Competency Evaluation:**

ABIM Global Assessment Form – All six competencies must be rated as satisfactory or superior.

Written examination at end of rotation. Both morning and afternoon experiences will provide a written examination. The cardiology test will be on interpretation of electrocardiograms. The allergy test will be on the subjects listed above. A score of 80% or higher is expected on each test.

Procedure Log – for recording of treadmills.

**Outcomes Assessment:**

Monthly resident evaluation of the experience, annual program evaluation by residents, individual teaching evaluations of Drs. Warr and Lieberman, and periodic surveys of graduates will be monitored.