

Rotation:
Allergy/Immunology Subspecialty Elective

Goals:

- 1) Provide medical residents with the knowledge necessary to evaluate, treat and monitor common allergic, non-allergic and immunologic disorders.
- 2) Describe the available diagnostic tools that allergy/immunology subspecialist use to manage, treat and monitor common and complex disorders.

Objectives:

By the end of the Allergy/Immunology Subspecialty Elective, 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	SPECIALTY SPECIFIC OBJECTIVES			
	Evaluate, diagnose, and manage patients with the following allergy/immunology complaints: <ul style="list-style-type: none"> • Allergic and non-allergic asthma • Allergic and non-allergic rhinitis • Acute and chronic urticaria • Anaphylaxis • Acute and chronic otitis media • Acute and chronic sinusitis • Common variable immunodeficiency • Contact dermatitis 	Clinical Teaching Journal Readings	ABIM global assessment form Written exam	Monthly Monthly
	Apply knowledge of the pathophysiology and pharmacologic principles underlying the diagnosis and treatment of common allergic, non-allergic and immunologic disorders.	Clinical Teaching Journal Readings	ABIM global assessment form Written exam	Monthly Monthly
	Develop understanding of the allergic early and late phase reactions, bronchial and nasal hyperreactivity, and the role of eosinophils, mast cells and lymphocytes in the production of the allergic reaction.	Clinical Teaching Journal Readings	ABIM global assessment form Written exam	Monthly Monthly
	Develop an understanding of which patients should be referred to the allergist for evaluation and the role of skin testing in the diagnosis of allergic diseases.	Clinical Teaching Journal Readings	ABIM global assessment form Written exam	Monthly Monthly
	Formulate a differential diagnosis and treatment plan based on medical history, physical exams, and laboratory studies	Clinical Teaching Journal Readings	ABIM global assessment form	Monthly

			Written exam	Monthly
Medical Knowledge	SPECIALTY SPECIFIC OBJECTIVES			
Practice Based Learning and Improvement	SPECIALTY SPECIFIC OBJECTIVES See General Internal Medicine Objectives for a comprehensive list.			
Interpersonal and Communication Skills	SPECIALTY SPECIFIC OBJECTIVES See General Internal Medicine Objectives for a comprehensive list.			
Professionalism	SPECIALTY SPECIFIC OBJECTIVES See General Internal Medicine Objectives for a comprehensive list.			
Systems-Based Practice	SPECIALTY SPECIFIC OBJECTIVES See General Internal Medicine Objectives for a comprehensive list.			

By the end of the Allergy/Immunology Subspecialty Elective, 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	SPECIALTY SPECIFIC OBJECTIVES			
	Evaluate, diagnose, and manage patients with the following allergy/immunology complaints: <ul style="list-style-type: none"> • Allergic and non-allergic asthma • Allergic and non-allergic rhinitis • Acute and chronic urticaria • Anaphylaxis • Acute and chronic otitis media • Acute and chronic sinusitis • Common variable immunodeficiency • Contact dermatitis 	Clinical Teaching Journal Readings	ABIM global assessment form Written exam	Monthly Monthly
	Apply knowledge of the pathophysiology and pharmacologic principles underlying the diagnosis and treatment of common allergic, non-allergic and immunologic disorders.	Clinical Teaching Journal Readings	ABIM global assessment form Written exam	Monthly Monthly
	Develop understanding of the allergic early and late phase reactions, bronchial and nasal hyperreactivity, and the role of eosinophils, mast cells and lymphocytes in the production of the allergic reaction.	Clinical Teaching Journal Readings	ABIM global assessment form Written exam	Monthly Monthly

	Develop an understanding of which patients should be referred to the allergist for evaluation and the role of skin testing in the diagnosis of allergic diseases.	Clinical Teaching Journal Readings	ABIM global assessment form Written exam	Monthly Monthly
	Formulate a differential diagnosis and treatment plan based on medical history, physical exams, and laboratory studies	Clinical Teaching Journal Readings	ABIM global assessment form Written exam	Monthly Monthly
Medical Knowledge	SPECIALTY SPECIFIC OBJECTIVES			
Practice Based Learning and Improvement	SPECIALTY SPECIFIC OBJECTIVES See General Internal Medicine Objectives for a comprehensive list.			
Interpersonal and Communication Skills	SPECIALTY SPECIFIC OBJECTIVES See General Internal Medicine Objectives for a comprehensive list.			
Professionalism	SPECIALTY SPECIFIC OBJECTIVES See General Internal Medicine Objectives for a comprehensive list.			
Systems-Based Practice	SPECIALTY SPECIFIC OBJECTIVES See General Internal Medicine Objectives for a comprehensive list.			

By the end of the Allergy/Immunology Subspecialty Elective, 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	SPECIALTY SPECIFIC OBJECTIVES Evaluate, diagnose, and manage patients with the following allergy/immunology complaints: <ul style="list-style-type: none"> • Allergic and non-allergic asthma • Allergic and non-allergic rhinitis • Acute and chronic urticaria • Anaphylaxis • Acute and chronic otitis media • Acute and chronic sinusitis • Common variable immunodeficiency • Contact dermatitis 	Clinical Teaching Journal Readings	ABIM global assessment form Written exam	Monthly Monthly

	Apply knowledge of the pathophysiology and pharmacologic principles underlying the diagnosis and treatment of common allergic, non-allergic and immunologic disorders.	Clinical Teaching Journal Readings	ABIM global assessment form Written exam	Monthly Monthly
	Develop understanding of the allergic early and late phase reactions, bronchial and nasal hyperreactivity, and the role of eosinophils, mast cells and lymphocytes in the production of the allergic reaction.	Clinical Teaching Journal Readings	ABIM global assessment form Written exam	Monthly Monthly
	Develop an understanding of which patients should be referred to the allergist for evaluation and the role of skin testing in the diagnosis of allergic diseases.	Clinical Teaching Journal Readings	ABIM global assessment form Written exam	Monthly Monthly
	Formulate a differential diagnosis and treatment plan based on medical history, physical exams, and laboratory studies	Clinical Teaching Journal Readings	ABIM global assessment form Written exam	Monthly Monthly
Medical Knowledge	SPECIALTY SPECIFIC OBJECTIVES			
Practice Based Learning and Improvement	SPECIALTY SPECIFIC OBJECTIVES See General Internal Medicine Objectives for a comprehensive list.			
Interpersonal and Communication Skills	SPECIALTY SPECIFIC OBJECTIVES See General Internal Medicine Objectives for a comprehensive list.			
Professionalism	SPECIALTY SPECIFIC OBJECTIVES See General Internal Medicine Objectives for a comprehensive list.			
Systems-Based Practice	SPECIALTY SPECIFIC OBJECTIVES See General Internal Medicine Objectives for a comprehensive list.			

Learning Venues:

Allergy/immunology clinic is conducted at the Allergy and Asthma Care Center Monday through Friday. Residents will see patients, generate a differential diagnosis and treatment plan. All patients will be presented and discussed with the attending. A complete differential diagnosis and plan of action are established. During the course of discussion the resident is expected to write down any questions related to the patient. At the end of each day there will be a discussion session with the attending related to the cases seen and questions noted by the resident during the course of day. During the discussion the resident will be given a question related to the pathophysiology and/or treatment of the disorders seen and discussed that day. The resident is expected to be prepared to answer the question on the following clinic day.

There will be a weekly reading assignment consisting of 2-3 journal articles. The resident will be provided the articles one week prior to discussion. The discussion session will be conducted in the format of question and answer. Residents are expected to have thoroughly read the assignment and be prepared to answer questions and discuss the articles.

Competency Evaluation:

1. The ABIM global assessment form of all six competencies will be completed by the attending and reviewed by the housestaff.
2. At the end of the month the residents will be given an examination covering the topics discussed during the month. A score of 80% is expected on the written exam.

Outcomes Assessment:

The educational success of the allergy/immunology elective will be based on three criteria:

- 1)Residents will perform monthly and annual evaluations of individual attendings and training program.
- 2)Allergy/Immunology subsections scores on the in-service examination of all residents who have successfully completed the elective.
- 3)Allergy/Immunology subsections scores on the ABIM certifying examination in internal medicine.