ALLERGY AND IMMUNOLOGY
PED 898

Course Department & Number & Title: PED 898, Allergy and Immunology

Course credit or length: 2- 4 Weeks. This elective is available to one student at a time.

Course directors and contact information: Dr. Meagan Shepherd, watts50@marshall.edu

Course coordinator and contact information: Emily Smith, 304-691-1371, pelfrey40@marshall.edu

Course location: Marshall University Medical Center, Pediatric Department, 3rd Floor, 1600 Medical Center Drive, Suite 3500, Huntington, WV.

Course Description: The allergy & immunology rotation focuses mainly on outpatient evaluation and management of allergic and immunologic diseases. Aspects of inpatient and emergency evaluation and management will also be discussed. Experience in these areas will vary based on frequency of occurrence.

Additional Responsibilities of Students
1. Participate in outpatient clinics
2. Participate in formal and informal discussions of selected topics
3. Pursue outside reading to supplement learning

Schedule:

Self-Directed Learning
As a medical student, you are encouraged to use any unstructured time to read about your patients, research questions that arise during the day, prepare for case conferences, and prepare for student-faculty rounds. Preceptors have been specifically asked to look for evidence that you have read articles and books between clinic sessions. Use this time to build your knowledge of medicine and learn from your patients.

ALLERGY AND IMMUNOLOGY

Institutional Objective
Patient Care - Students must demonstrate the ability to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.

Course Objective
The student will be able to assess the patient in the evaluation of allergic and immunologic diseases and offer a diagnosis and treatment plan.
**Outcome Measure:**

The student will demonstrate to faculty the skills of history taking, examination of patients, and outline a general program of management for the following conditions:

- Adverse Drug Reactions
- Adverse Reactions to Foods
- Asthma
- Atopic Dermatitis
- Contact Dermatitis
- Rhinitis
- Stinging Insect Reactions
- Primary Immunodeficiency

**Institutional Objective**

**Medical Knowledge** - Students must demonstrate knowledge of established and evolving biomedical, clinical, epidemiological and social-behavioral sciences, as well as the application of this knowledge to patient care.

**Course Objective**

The student will demonstrate familiarity with classifications of immunologic reactions.

**Outcome Measure**

The student will orally discuss with the faculty the classifications of immunologic reactions.

**Course Objective**

The student will define anaphylaxis, describe the characteristic signs and symptoms, identify causative agents, and outline a program of emergency management.

**Outcome Measure**

The student will orally demonstrate to a faculty member the ability to:

- Define anaphylaxis and list several causes; identify the most common causes.
- Discuss the pathophysiology of anaphylaxis and describe a typical course of events from exposure to an allergen to life-threatening reaction.
• List the common causes of death from anaphylaxis and identify the most common pathologic findings at autopsy.

• List the basic signs and symptoms of anaphylaxis related to:
  • Skin
  • Respiratory tract
  • Gastrointestinal tract
  • Cardiovascular system

• Discuss the basic management of anaphylaxis:
  • Intramuscular and intravenously administered epinephrine
  • Antihistamines
  • Fluids given intravenously
  • Endotracheal intubation
  • Steroids
  • Vasopressors

• Discuss the basic relationship of idiopathic anaphylaxis and systemic mastocytosis.

• Describe the basic methods of prevention such as avoidance of known triggers, anaphylaxis action plan, and patient treatment of anaphylaxis.

**Institutional Objective**

**Interpersonal and Communication Skills**- *Students must demonstrate interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families, and health professionals.*

**Course Objective**
The student will be able to communicate information effectively with members of the health team, including other physicians, nurses, physician and medical assistants, and social workers.

**Outcome Measure**
The student will be able to demonstrate to faculty:
  • The ability to communicate effectively with others
  • The ability to perform concise oral case presentations
• The ability to work as a team member and leader

**Institutional Objective**  
**Professionalism** - *Students must demonstrate a commitment to carrying out professional responsibilities and an adherence to ethical principles.*

**Course Objective**  
The student will behave in an ethical, responsible, reliable and dependable manner and be able to accept constructive feedback to improve performance. The student must demonstrate professionalism in interacting with other medical students and health care providers.

**Outcome Measure**  
The student will be directly observed and assessed as part of the final grade by faculty to determine ethical behavior, reliability and level of dependability of the student and the student's ability to accept criticisms or suggestions. The student will also be evaluated by faculty on:

- Professional behavior toward colleagues
- Exhibition of integrity and honesty
- Acceptance of responsibility one's own actions and decorum
- Sensitivity to gaps in knowledge exhibited by colleagues
- Ability to work effectively as a team member

**Institutional Objective**  
**Systems-based Practice** - *Students will be able to recognize and better understand the role of other health care professionals in the overall care of the patient.*

**Course Objective**  
The student will practice interacting with the health team, including other physicians, nurses, physician and medical assistants, and social workers to better understand the role of ancillary staff that is critical to the care of patients.

**Outcome Measure**  
The student will orally demonstrate to faculty the ability to:

- Understand the concept of interdisciplinary teams to improve patient care
- Understand the multidisciplinary resources necessary to care optimally for patients
- Understand the need to collaborate with other members of the health care team to assure comprehensive patient care
- Understand the use of evidence-based, cost-conscious strategies in the care of patients
ASSESSMENT METHODS

Mid Point Evaluation
In accordance with LCME standard ED-30, the Course Director will evaluate student performance at mid-point to review the student’s professional, clinical and academic performance up to that point. The formative evaluation must be reviewed with the student and the student will have an opportunity to discuss with the Course Director. The form must be signed by the student and returned to the Course Director. The Course Director shall then forward a copy of the form to the Office of Academic Affairs. The form will NOT however be included in the student’s official academic record. For two week electives, oral feedback shall be provided at the end of the first week.

Preceptor Evaluation- 100%
The preceptors’ evaluation will be based, but not limited to, upon the following factors:

- Attendance and participation in assigned activities
- Demonstration of knowledge and skills
- Maturity and Professionalism
- Informal oral case discussions and presentations
- Self-directed learning

Grade Mode: Honors/Pass/Fail

Review of recent literature and evidence-based medicine will be discussed as it relates to the treatment of the patient in addition to cost effectiveness of care. The students are directly observed by the attending and assessed on clinical knowledge, professionalism, self-directed learning and attitude to learning, critical thinking, history taking and physical examination skills and decision making skills using the stated course objectives.

Each component mentioned above must be passed in order to successfully complete the course.

MUJCESOM Policies: All medical students taking this course will comply with School of Medicine policies given at http://musom.marshall.edu/students/policies.

Reading:  [www.UpToDate.com](http://www.UpToDate.com)  As per assignment by faculty and Chief Residents

Required materials: [www.clippcases.org](http://www.clippcases.org)