

## **Syllabus-Ophthalmology Rotation Course: Objectives & Goals**

### **LOYOLA UNIVERSITY CHICAGO STRITCH SCHOOL OF MEDICINE**

#### **Department of Ophthalmology Course Objectives: By Core Competencies**

#### **GENERAL INFORMATION:**

\*The rotation is two weeks in length for 3<sup>rd</sup> year medical students or four weeks for 4<sup>th</sup> year medical students.

\*The elective can be taken at:

Loyola University Medical Center, or  
Hines VA Hospital

The students are encouraged to attend:

\*Morning lectures every Monday through Friday (7:30 am in Ophthalmology Conference Room or at the Hines VA as noted)

\*Grand Rounds (Wednesdays: Ophthalmology Conference Room (excluding 2<sup>nd</sup> Wednesday))

\*Clinic Assignment (LOC/Hines VA)

\*Surgery: cataracts/eye muscles/repair of RD (as scheduled, ASC)

\*Fluorescein angiography (LOC, Hines VA)

\*Humphrey Visual Field (LOC, Hines VA)

\*ER or inpatient consult

#### **STUDENT EVALUATION:**

Members of the healthcare team will provide feedback to the students via:

\*Continuous verbal communication

\*A mid-rotation evaluation

\*A final composite evaluation including:

- 2 Week Rotation: a 25 question test, multiple choice, one best answer written Examination, 4 Week Rotation: a 50 question test, multiple choice, one best answer written Examination

- Written evaluation using the Clinical Performance Evaluation

## COMPETENCY BASED GOALS & OBJECTIVES:

### **Goal 1: Medical Knowledge**

At the end of the rotation the student will be able to:

- \*Describe the anatomy of the eye and eyelids
- \*Describe a normal eye exam:
  - Anterior Segment
  - Posterior Segment
- \*Discuss Refractive Errors:
  - Hyperopia/Myopia/Astigmatism/Presbyopia
- \*Discuss the differential diagnosis of the “Red Eye”:
  - “D4 Vitamins”
    - Diet/Development/Drug/Degenerative?
    - Vascular?
    - Immune?
    - Toxic/Traumatic?
    - Autoimmune/Anoxic?
    - Metabolic?
    - Endocrine?
    - Neoplastic?
    - Special?
- \* Discuss types of glaucoma – risk factors and management (medications/laser/surgery)
- \* Discuss types of cataracts
- \* Discuss types of retina detachment (RD) and age-related macular degeneration (ARMD)
- \* Discuss ocular changes in diabetes mellitus (DM)
- \* Discuss ocular changes in hypertension (HTN)
- \* Discuss optic neuropathy

### **Goal 2: Communication Skills**

At the end of the rotation, the student will demonstrate the ability to:

- \*Elicit, record, and present focused histories and eye findings of assigned patients to the health care team
- \*Collaborate with members of the health care team in the care and treatment of the patient
- \*Explain to patients and/or patient’s family eye findings from the patient exam
- \*Participate during conferences with patients and their families
- \*Discuss an approach to diagnosis and treatment

**Goal 3: Professionalism**

During the rotation the student will demonstrate the ability to:

- \*Care conscientiously for assigned patients with appropriate standards of professional, ethical, and moral conduct
- \*Display the following appropriate behaviors:
  - Dress, grooming, punctuality, honesty, respect for confidentiality and privacy, and motivation
  - Conversed and behaved appropriately in interactions with peers, faculty, house staff, and non-physician staff
  - Recognize and accept own limitations in knowledge and skills, and display commitment to continuous improvement in these abilities

**Goal 4: Patient Care**

At the end of the rotation, the student will be able to:

- \*Assist in providing overall care for assigned patients, including record keeping, interacting with families, and collaborating with other health care personnel
- \*Construct H&Ps that are legible, concise, and complete
- \*Work collaboratively with healthcare team members

**Goal 5: Practice Based and Lifelong Learning**

At the end of the rotation, the student will demonstrate the ability to:

- \*Identify and effectively use educational resources, including on-line searches
- \*Use information technology to access and manage clinical information and to acquire knowledge of specific topics related to his/her patient
- \*Search, evaluate and present a critical review on a topic (at the end of a 4 week rotation with interest in our residency program we expect a PowerPoint presentation in one of our Grand Rounds)
- \*Recognize areas of knowledge and practice in which they are uncertain and develop learning goals and plans for self-improvement

**Goal 6: Social and Community Context of Healthcare**

At the end of the rotation the student will be able to:

- \*Discuss the immense impact impaired vision or even blindness has on patient's life including that of their families.
- \*Recognize the importance of prevention of blindness
- \*Discuss the importance of compliance with medications, diet, smoking and exercise

**GOALS/OBJECTIVES**  
**Ophthalmology Rotation: 2 or 4 Week**

**SKILLS:**

- \* Obtain an accurate eye history
- \* Become familiar with complete eye exam
  - Visual Acuity-distance/near/pinhole (PH) significance
  - Pupils-be able to diagnose afferent papillary defect (APD)
  - Motility
  - Confrontational Visual Field
  - Slit Lamp Exam (SLE)
  - Fundus Exam-direct and indirect ophthalmoscopy
- \* Proper technique for installation of eye drops
- \* Proper technique for eversion of the eyelid – removal of superficial foreign bodies (FB)
- \* Application of fluorescein and use of cobalt blue light
- \* Become familiar with intraocular pressure (IOP) checks – Goldmann applanation vs TonoPen
- \* Evaluation of the optic nerve (ON)

**KNOWLEDGE:**

- \* Anatomy of the eye and eyelids
- \* Describe a *normal* eye exam
  - Anterior Segment
  - Posterior Segment
- \* Hyperopia/Myopia/Astigmatism/Presbyopia
- \* Differential Diagnosis of the “Red Eye”
  - “D4 Vitamins”
    - Diet/Development/Drug/Degenerative?
    - Vascular?
    - Immune?
    - Toxic/Traumatic?
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STUDENT ROTATION PROGRAM/Syllabus-Goals for 2 & 4 Week Rotation (Non-Competencies)