

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 3rd year medical students or four weeks for 4th 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 2nd 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?
 - Autoimmune/Anoxic?
 - Metabolic?
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- * Ocular changes in diabetes mellitus (DM)
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STUDENT ROTATION PROGRAM/Syllabus-Goals for 2 & 4 Week Rotation (Non-Competencies)