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?
    ▫ Endocrine?
    ▫ Neoplastic?
    ▫ Special?
* Types of glaucoma – risk factors and management (medications/laser/surgery)
* Types of cataracts
* Types of retina detachment (RD) and age-related macular degeneration (ARMD)
* Ocular changes in diabetes mellitus (DM)
* Ocular changes in hypertension (HTN)
* Optic neuropathy
STUDENTS SHOULD ATTEND:

* Morning lectures every Monday through Friday (7:30 am in Ophthalmology Conference Room or at 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 in-patient consult

STUDENT ROTATION PROGRAM/Syllabus-Goals for 2 & 4 Week Rotation (Non-Competencies)