650A Clinical Ophthalmology

Course Description:
The introductory elective consists of exposure to general ophthalmology clinics as well as subspecialty clinics in retina, glaucoma, pediatrics, neuroophthalmology, oculoplastics, uveitis, and cornea. Students who have done an introductory elective may take further elective time with individual subspecialty faculty by special arrangement (650B Ophthalmology Private Practice Elective).

Department: Ophthalmology

Prerequisites: UC Irvine students must have successfully completed the basic science curriculum to take the introductory elective in the resident clinics. Extramural students must be in the final year of undergraduate medical education.

Restrictions: Permission of instructor required for enrollment.

Elective Director: Chantal Boisvert, MD, UC Irvine Medical Center, Department of Ophthalmology, 101 The City Drive, Pavilion II, 2nd Floor, Orange, CA 92868, email: cboisver@uci.edu

Instructing Faculty: Anand Bhatt, MD; Chantal Boisvert, MD; R. Wade Crow, MD; Marjan Farid, MD; Sumit Garg, MD; Sanjay Kedhar, MD; Baruch Kuppermann, MD, PhD; Robert Lingua, MD; Stephanie Lu, MD; Mithul Mehta, MD; Sameh Mosaed, MD; Kavita Rao, MD; Jennifer Simpson, MD; Jeremiah Tao, MD; Matthew Wade, MD; fellows and volunteer faculty.

Course Website: [http://www.healthaffairs.uci.edu/uceye/](http://www.healthaffairs.uci.edu/uceye/)

Who to Report to on the First Day: Second Year Resident

Location to Report on First Day: UC Irvine Medical Center Pavilion II, 2nd Floor or Long Beach VA Eye Clinic, Building 7, 2nd Floor.

Time to Report on First Day: Monday at 8:00 am

Site Coordinator: Doris Romo, UCI School of Medicine, Department of Ophthalmology; Gavin Herbert Eye Institute 3rd floor; email: dromoe@uci.edu or 949-824-0158. Email contact is preferred.

Sites: UC Irvine Medical Center Eye Clinic or LBVAMC Eye Clinic

Periods Available: Throughout the year

Duration: 2-4 weeks

Number of Students: 2 per rotation - UC Irvine Medical Center; 2 per rotation - LBVAMC

Scheduling Coordinator: UC Irvine students please email Thasin Sultan sultant@uci.edu or call (714) 456-8462 to make a scheduling appointment. Please read the following information carefully. Any student enrolled at a U.S. LCME medical school will use VSAS to apply. To apply please refer to this website [http://www.aamc.org/programs/vsas/](http://www.aamc.org/programs/vsas/). International students are only eligible if a reciprocity agreement is in place between UCI and their school; for information, please contact Thasin Sultan at sultant@uci.edu.

Course Objectives: At the end of this rotation the students will be able to:

- Take a focused ophthalmic history (Bi)
- Perform a basic screening level eye examination, including direct ophthalmoscopy (Bii)
- Differentiate normal from abnormal findings and accurately describe abnormal findings
- Demonstrate ability to integrate appropriate ophthalmic history and examination, and know how it applies to their chosen field (Cii)
- Develop appropriate differential diagnoses and treatment plans for common eye problems
- Search the medical literature for evidence-based patient specific information (Biv)
- Be familiar with the common features and disorders of the eye, especially sight-threatening or potentially life threatening conditions (such as acute angle closure glaucoma, temporal arteritis, central retinal artery occlusion, diabetic retinopathy, retinal detachment, papilledema, and nerve palsies)
Key Topics:

- Scope and breadth of primary ocular disease, e.g. cataract, macular degeneration, and glaucoma
- Recognition and initial management of ocular injuries and emergencies
- Ocular manifestations of common systemic disease
- Ocular sequelae of systemic medications
- Differential diagnosis of acute visual loss
- Differential diagnosis of red eye

Competencies:

- Measure and record visual acuity
- Examine pupillary reflexes, identify and recognize the significance of an afferent pupillary defect
- Perform a basic ocular motility examination and detect strabismus (eye misalignment)
- Perform a red reflex examination with a direct ophthalmoscope
- Perform a confrontation visual field examination, recognize the principal visual field defects and understand their localizing value
- Examine the eye and ocular adnexa by penlight and recognize cardinal signs of disease
- Perform routine direct ophthalmoscopy of the ocular fundus
- Know when to emergently refer a patient to ophthalmology
- Understand an ophthalmology consult note

Attitudes and Commitments:

- To consider the eye as an indicator of systemic disease in the patient as a whole
- To commit to continue the screening eye examination integrated into their patient evaluation throughout their careers as it applies to their chosen field

Educational Activities: At UC Irvine Medical Center, students will be assigned to clinics on Mondays, Tuesdays, Thursdays and Fridays. Wednesday mornings, they may follow their resident to resident’s assigned subspecialty clinic, or observe in the operating room by special arrangement. They are expected to attend all Wednesday afternoon resident lectures and monthly grand rounds. They are also strongly encouraged to accompany the consult resident to see in-patient consultations as they arise.

What Students Should do to Prepare for the Rotation: Read the ‘Manual for eye examination and diagnosis’ and the introductory information packet online or as emailed to them by the Ophthalmology Site Coordinator, Doris Romo. If they have not received the packet by two weeks prior to the elective students should contact Doris Romo at djromo@uci.edu

Clinical Responsibilities of the Student: Each student will be assigned to an outpatient clinic for each day of the rotation to provide a broad exposure to the daily activities and the range of clinical problems in ophthalmology. Each student will be assigned to a 2nd year ophthalmology resident who will be primarily responsible for the instruction of that student. Each medical student will be required to perform all tasks assigned by that resident during the working day. Specifically, the student will be expected to observe the residents examining patients. Additionally, each medical student is required to keep a log of all the patients that they see with the residents and/or faculty members. The patient log must be submitted at the time of the final examination.

Patient Care Responsibilities of the Student: As an adjunct to the resident, who retains primary responsibility for care.

Call Schedule of the Student: Students are not required to take call. However, they are strongly encouraged to take call to obtain exposure to acute ophthalmic care. This is highly recommended to students interested in ophthalmology.

Procedures to be Learned by the Student:

- Refine techniques in the general eye examination as well as be exposed to the scope of ophthalmic practice
- Measure and record visual acuities, evaluate the pupillary reflexes, and dilate pupils for fundus examination
- Confidently use a direct ophthalmoscope
- Evert an eyelid, diagnose a foreign body, gauge the depth of the anterior chamber with a pen light
- Recognize and manage corneal epithelial defects
- Acquire general familiarity with the equipment used in the ophthalmic examination; slit lamp biomicroscope, tonometry, and indirect ophthalmoscopy. Please note students are not expected to master these techniques.

Percentage of Time Student will Participate in Ambulatory Setting: 90%
Standardized Instructional Material:

- Orientation Packet
- Textbooks
- Case vignettes in workbooks chained to the clinic attending desk, which students should proactively ask the clinic attending to go over with them early in the morning, before the pace of the clinic picks up

Conference/Lecture/Small Group Sessions: Contact site coordinator for lecture schedule

Course Hours Weekly Summary:

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<th>Computer Assisted Learning</th>
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<tbody>
<tr>
<td>1</td>
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<tr>
<td>30-36</td>
<td>Clinic</td>
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<tr>
<td>2</td>
<td>Grand Rounds</td>
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<tr>
<td>Variable</td>
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<td>Lecture</td>
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<tr>
<td>Variable</td>
<td>Operating Room</td>
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<tr>
<td>Variable</td>
<td>Other: reading, writing, journaling</td>
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Content Theme Integration:

- Integrative Medicine and Alternative Medicine
- Medical Ethics
- Genetics and Genetics Counseling
- Pediatrics
- Geriatrics
- Medical Jurisprudence
- Medical Socio-economics
- Multicultural Medicine
- Patient-Health Education

Recommended Readings:

- Manual for Eye Examination and Diagnosis
- Basic Ophthalmology for Medical Students and Primary Care Residents
- Michigan modules (instruction modules on the internet at www.kellogg.umich.edu/theeyeshaveit)
- Wills Eye Manual

Official Grading Policy: The standard UC Irvine elective evaluation form will be used to determine the final grade of a student. The students will be graded on a three-part system Honors/Pass/Fail. As part of the evaluation of the students clinical performance, the student will be expected to demonstrate examination skills to the senior resident. The satisfactory demonstration of these skills is necessary prerequisite to a passing grade. At the conclusion of the elective, students will be given a written examination consisting of 25 clinical questions. These questions cover material that we would expect a well trained primary care physician to know. A 90% on the overall evaluation is required for an Honors grade. An overall score above 70% is required for a Pass. Students will receive feedback through open communication with residents and/or course directors on a daily basis.