Course information

Course title: Ophthalmology 1

Course number: 111502503

Credit hours: 2.25

Course date: 2-week rotation

Course meeting time: 8:00 AM

Course location: Prince Hamza Teaching Hospital & Zarqa New Government Hospital

Course coordinator: Dr. Muhannad El-Faouri

Office location: Ophthalmology dept.

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Pre-requested course: none

Course description:

A short course addressing common ophthalmic diseases and serious ones that any general practitioner will be exposed to. Through the course there would be both lectures / seminars covering the theoretical part, as well as clinics, theatres, and clinical teaching sessions covering the practical part.

There will be coverage for both the basic and clinical sciences that are of particular interest.

The interaction will be multidisciplinary between lecturer, students, and patients.

Learning outcomes:

1- To be able to take appropriate case history with emphasis on ophthalmic pathologies and its symptomatology.

2- To be alerted to serious vision-threatening problems based on history.

3- To conduct a focused eye exam with emphasis on the following techniques:

   a- Visual acuity (including use of pinhole).

   b- Confrontation visual fields.

c- External inspection of ocular adnexa.

d- Pupillary examination including direct, consensual, and swinging-light test.

e- Pen-light exam of the anterior segment.

f- Extraocular muscle motility and ocular alignment examination.

g- Direct ophthalmoscopy.

4- To be able to formulate a list of differential diagnosis and plan of management, including timely referral to a more specialized ophthalmic service.

5- Making sure that future general practitioners and doctors are safe doctors regarding ophthalmic emergencies and vision-threatening conditions.

Instructional methods:

- Seminars.
- Clinics.
- Operative room.
- Case-based discussion / Workshops / Clinical teaching.

Textbook and material:

1- Ophthalmology Lecture Notes: by Bruce James and Anthony Bron. Latest edition. Wiley Blackwell.

2- Clinical Ophthalmology by Kanski, 9th edition. Elsevier Health.

Grading Policy:

Grades will be based on the following:

- In-course evaluation = 20%
- Virtual clinical case-based exam / Computerized = 35%
- Final written exam = 45%
- Total mark =100%

Course Policies:

Late Assignments

Students are expected to present their assignment on scheduled time. If not, a new date is given to the student to present their seminar. Late assignments will affect the grade by 5 points unless there is an excuse.

Missed exams

Make up exams will be held for students who missed their exam, only if they have an excuse accepted by the department and deanery.

Absence

Ophthalmology rotation is 10 working days. Absence by 2 or more days requires repeating the rotation.

Cheating

Cheating is extremely prohibited and will be dealt with according to university policies.

Classroom Protocol:

Students are expected to arrive at 08:00 AM unless indicated otherwise.

Attendance is taken each day.

Students are expected to respect other students and instructors.

Participation is graded according to presentations, interaction during seminars, attending daily activities, good behavior, patient care, medical knowledge, communication skills, and professionalism.

Important Dates to Remember:

The final exam date will be set by the Department of Special Surgery.

The end of rotation exam will be held every 4 weeks of each rotation (i.e., two groups will take the exam at one time inside the University premises).

Student rights and responsibilities:

- Group coordinator should contact the course instructor before starting the rotation to assure that students are aware of the rotation instructions and contents.
- The students' major group rotating in Ophthalmology will be split into two equal subgroups: The first group will attend clinical sessions and teaching at Prince Hamza Teaching Hospital, and the second group will attend clinical sessions and teaching at Zarqa New Government Hospital during the first week of the rotation, from Monday to Thursday. During the second week of the rotation, the two subgroups swap.

- Regarding the two Sundays of the two-week Ophthalmology rotation, the whole group should be in the lecture room at Prince Hamza Teaching Hospital to present / attend seminars.
- Students are not allowed to attend the clinic without a white coat and a penlight.
- Each student should bring his/her surgical scrub to be used during OR sessions.
- Students who are assigned to attend OR should watch relevant videos for surgeries scheduled for the next day. For example, YouTube videos for phacoemulsification, squint surgery, and vitrectomy.
- Students should distribute the seminars between them before starting their rotation and divide themselves according to their number and the number of seminars.
- The total allocated time for the seminar is 1.5 hours. Seminars should be presented by the assigned students aided by PowerPoint slides. Emphasis should be on incorporating lots of figures and images. The number of slides should be just enough to cover a one-hour presentation leaving enough time for discussion.
- The virtual OSCE exam is held every 4 weeks.

Course Schedule:

No.	Title	Objectives
1	Ocular anatomy and physiology ***Self-reading***	• Surface ocular anatomy • Details of layers of the globe and its structure. • Physiologic mechanism of vision and ocular function
2	Refractive errors	• Physics of refractive errors • Different states of refractive errors and management: myopia, hyperopia, astigmatism, and presbyopia. • Special cases including keratoconus and aphakia
3	Painless red eye	To know symptoms, signs, and management of the following diseases: 1. Infectious conjunctivitis 2. Allergic conjunctivitis 3. Subconjunctival hemorrhages 4. Degenerative conjunctival lesions.
4	Painful red eye:	To know symptoms, signs, and management of the following diseases:

		1. Keratitis 2. Uveitis 3. Angle-closure glaucoma 4. Scleritis/Episcleritis
4	Acute visual loss	• Pupillary light reflex, RAPD • Classification of acute vision loss. • To know symptoms, signs and management of the following diseases: 1- Central retinal vein occlusion 2- Acute Rhegmatogenous Retinal detachment
5	Chronic visual loss	• To know symptoms, signs, and management of the following diseases: 1- Cataract 2- Glaucoma 3- Age related macular degeneration
6	Ocular trauma	• Mechanism of ocular trauma including chemical injuries, penetrating injury, rupture globe, foreign bodies, hyphaema, corneal abrasion and orbital fracture. • Intervention • Visual prognosis
7	Neuro-ophthalmology	• To know symptoms, signs and management of the following diseases: 1- Approach to Papilledema 2- Cranial nerves: III, IV and VI palsies. 3- Ischemic optic neuropathies including giant cell arteritis. 4- Optic neuritis
8	Eye involvement in Systemic Diseases	Emphasis will be on Diabetic eye disease, mainly diabetic retinopathy.
9	Pediatric Ophthalmology topics	• Discussion should focus on: 1- Blind infant: definition, diseases that cause infant blindness. 2- Congenital nystagmus: definition and causes. 3- Strabismus: definition, classification, terminology, and approach to management.