CERTIFICATE OF HIGHER SPECIALIZATION IN MEDICINE (CHSM) IN Ophthalmology

92/09/4 شر. Plan No.

First: General Regulations:

- a) This plan conforms to the valid regulation of program of graduate studies.
- b)The Bachelor degree in Medicine & general surgery is the prerequisite for this program

Second: Special Regulations:

- a) Visual acuity (Best Corrected >6/9)
- b) Normal Color Vision
- c) Stereopsis of 200 sec of arc of better

Third: The syllabus consists of:

a) Four obligatory programmed years of the following sequence:

Year Subject

First Basic Science

Second Clinical Ophthalmology
Third Clinical Ophthalmology
Fourth Clinical Ophthalmology

- b) Full comprehensive examination at the end of the fourth year.
- c) The enclosed training details & duration in each department for each training year are a fully intergrated program.

Fourth: The Program:

Year	Studying	Training
Year Second Year	Studying 1-Basic Ophthalmic Sceince: (Anatomy, Emberyology, Genetics, Physiology, General pathology) 1- Optics and refraction 2- Common ocular trauma and emergencies 3- Eyelids and conjunctiva 4- Lacrimal apparatus Studying 1- Ocular pathology 2- Ocular pharmacology 3- Orbit 4- Cornea 5- Glaucoma	Training Ophthalmic medicine & surgery (Basic) 1- Emergency care/ under supervision of 2 nd year resident 2- In-Patients care/ under supervision of 2 nd year resident 3- Closing round/ under supervision of most senoir resident 4- Case sheet & clinical examination 5- Seminars on basic principles in ophthalmic surgery / wound closure & suture removal// under supervision of most senior resident 6- Seminar on management of emergency cases 7- Seminar on basic ophthalmology as per teaching program 8- Seminar on general ophthalmology as per teaching program Training Ophthalmic Medicine & Surgery 1- Emergency care/ under supervision of most senior resident 2- In-Patients care/ under supervision of most senior resident 3- Out-patients care 4- Case sheet & clinical examination 5- Techniques of refraction and prescribing glasses 6- Techniques of visual field testing 9- Principles of applied ophthalmic surgery/cataract & squint surgery /under supervision of most senior resident 7- Seminars on ophthalmic topics as per teaching program
Third	1- Lens affections and	Ophthalmic Medicine & Surgery

Year:	modern cataract and anterior segment surgery 2- Pediatric ophthalmology and strabismus 3- Ocular trauma 4- Uveal diseases and tumors	 Primary & Secondary care for ophthalmic emergency In – patient care Out- patient care Technique of U.S. examination Technique of LASER treatment under supervision Surgical skills in ophthalmic surgery / Cataract & squint surgery – under supervision of most senior resident or consultant Participation in research studies Seminars on ophthalmic topic as per teaching program
Fourth Year:	1- Retina and vitreous 2- Neuro-ophthalmology	Ophthalmic Medicine & Surgery 1-Primary, Secondary & tertiary care for ophthalmic emergencies 2- In-patient care 3- Out-patient care 4- Technique in LASER treament 5-Surgical skills in ophthalmic surgery / corneal grafting –under supervision of consultant. 6- Participation in research studies 7-Participation in teaching 5 th year medical students, as per teaching program 9- Supervise junior residents

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IN MEDICINE

(CHSM) OPHTHALMOLOGY

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OF HIGHER SPECIALIZATION IN MEDICINE (CHSM) OPHTHALMOLOGY

* FIRST	TYEAR RESIDENCY:
The first	year resident is expected to study the following subjects:
1- Basic	Sciences:
a) Anato	omy:
	Head and Neck
	Skull
	Neuroanatomy including cranial nerves
	Detailed anatomy of the eye and its adnexae
b) Ocul	ar emberyology
c) Prince	iples of medical genetics
d) Physi	iology
	General:
	To be familiar with cell biology, cardiovascular system, renal and
	respiratory, endocrine regulation, prostaglandin and cellular messengers.
П	Eye physiology:
	Eye lids
	The lacrimal apparatus
	The cornea
	The extraocular muscles
	Ocular circulation
	Somatic sensations from the eye
	Aqueous humor production and intraocular pressure dynamics
	The crystalline lens
	The pupil.
e) Gener	ral pathology:
	Inflammation and chemical mediators
	Healing and repair
	Chronic inflamation
	Amyloidosis, calcifications, stains etc.
	Thromboembolism

f) Optics and refraction

☐ Vascular disorders : Atherosclerosis, etc..

☐ Basic and general immunity

2-	Clinical science	es :			
a)	common ocula	r truma and emergencies			
b)	Eyelids and co	njunctiva			
<i>c</i>)	c) Lacrimal apparatus				

C					
<u> </u>	<u>econd year r</u>				
		esidents are encouraged to study more in-depth both normal and ad function of the eye and its connections with the higher visual			
1)	Basic Sciences	<u>:</u>			
<i>a</i>)	Eye physiology	· :			
		ry and photometry			
	☐ Entoptic i				
	☐ Visual ada	• •			
	☐ Visual acu				
		oral responsivensess of vision			
	☐ The retina	-			
	☐ The Bioch	emistry of the retina			
		re physiology			
	☐ Color visi	on and its anomalies			
	☐ The centra	ıl visual pathways			
	☐ Binocular	vision			
	☐ Electric pl	nenomena in the retina			
b)	Ocular patholo	ogy:			
	-: · ·	nd ocular wound healing			
	☐ Congenita	<u> </u>			
	☐ Ocular ad	nexae: eyelids, lacrimal apparatus, cornea and conjunctiva			
	☐ Intraocula	•			
	☐ Orbit				
	☐ Retina and	l optic nerve			
	☐ Gloucoma				
	☐ Ocular im	munity			
	☐ Immunity	of transplantation and graft rejection			
	☐ Infectious	diseases of the eye			

<u>c)</u>	Ophth	halmic pharmacology:
		Ocular pharmacokinetics and pharmacodynamics of agents acting on the
		eye
		Autonomic nervous system drugs
		Antiglaucoma agents
		Viscoelastic agents
		Antiinflamatory agents including steroids
		Antibiotic and antifungal agents
		Antiviral chemotherapy
		Antihistamines, antiallergic and wetting agents
		Topical and local anaesthetic drugs
<i>3-</i>	<u>Clinic</u>	cal Sciences:
a)	<u>Orbit</u>	
b)	Corne	<u>ea</u>

c) Glaucoma

* Third year residencey:

The third year resident is expected to study more clinical subjects and to cover in depth ocular trauma and emergency.

Clinical staff should encourage the resident to present cases and research to local ophthalmic meetings and conferences:

- a) Lens affections and medern cataract and anterior segment surgery
- b) Paediatric ophthalmology and strabismus
- c) Ocular trauma
- d) <u>Uveal disease and tumors</u>

* Fourth year residencey:

By the fourth year, each resident is given more clinical and teaching responsibilies. He is expected to work independently in most of the clinical , and to participate in ongoing clinical research . The following subjects should be covered during this year:

- a) Retina and vitreous
- b) Neuro-ophthalmology