

**OPHTHALMOLOGY LECTURES, PRACTICAL HOURS /SEMINARS AND SELF-TRAINING  
FOR THE III<sup>TH</sup> YEAR STUDENTS OF STOMATOLOGY FACULTY**

No. d/o	THEME	Number of hours			
		Lectures	Seminars	Practical hours	Self- training
1.	<b>Ophthalmology.</b> Importance of ophthalmology. Interdisciplinary correlations dentistry - ophthalmology.	1	1	1	-
2.	<b>Anatomic and clinical features of the visual analyzer.</b> Three segments of the visual analyzer according to Pavlov. Particularities of the orbital structure and the orbital relation with the paranasal sinuses. Accessory structures of the eye: the eyelids, the lacrimal system and the conjunctiva: structure and functions. Coats of the eyeball: external (cornea and sclera), medium (uvea), internal (retina): structure and functions. Structure of the anterior chamber angle. Ways of production and evacuation of the aqueous humor. Content of the eyeball: the lens, the vitreous and the aqueous humor. Optical pathway of visual system. Oculo-motor system. Oculo-motor nerves.	1	1	1	1,5
3.	<b>Functions of the visual system, its possible disturbances and examination methods.</b> Function of rods and cones, the importance of vitamin A in the visual act. Photosensitivity, its disturbances and examination methods. Central vision, examination methods. Peripheral vision, major disturbances and examination methods. Chromatic sense: anomalies of the chromatic sense (congenital, acquired), examination methods.	1	1	1	1
4.	<b>Clinical refraction and accommodation of the eye.</b> Optical system of the eye. Clinical refraction and examination methods. Hypermetropia: classification, clinical manifestations, treatment. Myopia: classification, clinical manifestations, complications, treatment. Accommodation of the eye. Disorders of accommodation.	1	1	1	1
5.	<b>Binocular vision and its disturbances.</b> Neutralization, amblyopia. Examination methods for binocular vision. <b>Notions in strabismus</b> - classification, etiology, pathogenesis, clinical manifestations. Comitant strabismus vs. parietic strabismus. Methods of examination. The management of strabismus. Methods of prophylaxis.	1	1	1	1
6.	<b>Diseases of the eyelid, conjunctiva, and lacrimal system.</b> Blepharitis: etiology, clinical manifestations, treatment. Blepharospasm, ptosis, lagophthalmos: causes, treatment. Hordeolum (stye): clinical manifestations, treatment. Chalazion: etiology, clinical manifestations, treatment. Benign and malignant eyelid tumors: clinical manifestations, treatment. Dacryoadenitis: clinical manifestations, treatment. Acute and chronic dacryocystitis: clinical manifestations, treatment. Bacterial, viral and allergic conjunctivitis: clinical manifestations, treatment, prophylaxis.	1	1	1	1
7.	<b>Odontogenic oculo-orbital diseases.</b> Orbital cellulites.	1	0,5	0,5	1
8.	<b>Diseases of the cornea and sclera.</b> Classification of keratitis and etiological factors. Serpiginous corneal ulcer: clinical manifestations, treatment. Viral (herpetic) keratitis: clinical manifestations, treatment. Interstitial (syphilitic and tuberculous) keratitis: clinical manifestations, treatment. Keratoconus. Episcleritis and scleritis: etiology, clinical manifestations, treatment.	1	1	1	1

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9.	<b>Congenital and acquired diseases of the lens.</b> Congenital cataract: etiologic factors, clinical manifestations, treatment. Acquired cataract, etiologic factors, clinical manifestations, treatment	1	1	1	1
10.	<b>Glaucoma.</b> Classification, pathogenesis and methods of diagnosis. Primary open-angle glaucoma: clinical manifestations, treatment. Acute glaucoma: clinical manifestations, differential diagnosis, treatment. Secondary glaucoma: etiology, clinical manifestations. Congenital glaucoma: clinical manifestations, treatment..	1	1	1	1
11.	<b>Diseases of the uvea.</b> Uveitis: classification, etiology. Iridocyclitis: clinical manifestations, treatment. Choroiditis: clinical manifestations, treatment.	1	1	1	1
12.	<b>Diseases of the retina and optic nerve.</b> Retinal vessel spasm, embolism (occlusion) and thrombosis, clinical manifestations, emergency medical care. Pathology of the eye in diabetes mellitus, hypertension and kidney diseases. Intraocular tumors: diagnosis, treatment. Retinal detachment: clinical manifestations, treatment. Optical neuritis (papillitis and retrobulbar neuritis). Papillary stasis, optic nerve atrophy, etiologic factors, clinical manifestations, treatment.	1	1	1	1
13.	<b>Mechanical eye trauma.</b> Causes and forms of eye trauma. Clinical signs of orbital lesions, treatment. Eyelid, conjunctival lesions. Eye contusions: clinical manifestations, treatment. Ocular penetrating trauma: clinical manifestations, treatment. Sympathetic ophthalmia: etiology, clinical manifestations, treatment.	1	1	1	1
14.	<b>Ocular burns.</b> Ocular actinic burns: treatment, prophylaxis. Ocular chemical burns: clinical manifestations, treatment. Particularities of trauma in children and its prophylaxis.	1	0,5	0,5	1,5
15.	SUMMARY. Practical skills	-	1	1	-
<b>TOTAL</b>		<b>15</b>	<b>15</b>	<b>15</b>	<b>15</b>
		<b>60</b>			

### PRACTICAL TOOLS PURCHASED AT THE END OF THE COURSE

Mandatory essential practical tools are:

- ✓ Eyelids and anterior segment examination;
- ✓ Visual Acuity Examination;
- ✓ Visual Field Examination;
- ✓ Chromatic vision examination;
- ✓ Examination of binocular vision and eye movements;
- ✓ Light sensibility examination;
- ✓ Eye refraction examination;
- ✓ General rules in prescriptions of glasses for: Myopia, Hyperopia, Presbyopia;
- ✓ Squint examination: Hirschberg method and Cover test;
- ✓ Examination of lacrimal system (permeability and function);
- ✓ Examination of Pupillary reflex;
- ✓ Intraocular pressure (IOP) Measurement;
- ✓ Ocular Chemical Burn - (emergency) treatment;
- ✓ Removing of Conjunctival Foreign Body and Corneal Foreign Body;
- ✓ Localizations of Intraocular Foreign Body;
- ✓ Posterior Segment Examination (Retinoscopy);
- ✓ General rules in ocular drops instillation and application ointment.