



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Malattie Apparato Visivo

1718-5-H4101D027-H4101D104M

Aims

Aims of the course are the following:

1. teaching students about the most clinically relevant diseases of the eye and the visual pathways, including their clinical diagnosis and treatment principles.
2. teaching the future "family doctor" to recognize and correctly diagnose particularly severe eye diseases that might be managed and initially treated in an emergency situation in the absence of the ophthalmologist.

Contents

In summary the course is based on teaching of the following topics:

1. anatomy and physiology of the eye
2. clinical and instrumental diagnosis.
3. refraction
2. chronic diseases affecting visual function
3. acute diseases affecting visual function
4. irritative diseases
5. eye and systemic diseases

6. pediatric eye diseases

7. ocular traumas

Detailed program

1. Anatomy of the eye and annexes. Anatomy of visual pathways.

2. Physiology of the eye: single binocular vision, extrinsic and intrinsic eye movements, lid movements, physiology of tear film, physiology of the cornea, pupillary reflexes, physiology of the eye hydrodynamic, accommodation, physiology of vision, physiology of retinal pigment epithelium.

3. visual acuity, visual field, principal clinical signs, clinical and instrumental examinations, visual acuity assessment, visual field examination, biomicroscopy, tonometry, retinal angiography, optical coherent tomography, ultrasound examination.

4. refraction: myopia, hyperopia, astigmatism.

4. chronic diseases affecting visual function: cataract, open-angle glaucoma, atrophic senile macular degeneration..

2. acute diseases affecting visual function: hemovitreous, central retinal artery occlusion, central retinal vein occlusion, exudative senile macular degeneration, regmatogenous retinal detachment, anterior ischemic optic neuropathy, papillitis, retrobulbar optic neuropathy.

3. irritative diseases: blepharitis, dacryocystitis, conjunctivitis, keratitis, dry eye, iridocyclitis, closed-angle glaucoma.

4. eye and systemic diseases: diabetic retinopathy, hypertensive retinopathy, ocular immunodeficiency-pathology, papilledema, incomitant strabismus, exophthalmus.

5. pediatric eye diseases: ambliopia, concomitant strabismus, leucocoria, congenital glaucoma.

7. ocular trauma

Prerequisites

The following examinations need to be passed:

Anatomy

Physiology

General Pathology

Pharmacology

Teaching form

Formal lessons

internship

elective courses

Textbook and teaching resource

textbook:

Miglior S, Avitabile T, Bonini S, Campos E, Mastropasqua L: *"Malattie dell'Apparato Visivo"*. EDISES srl, Napoli

Semester

V° year, 1st semester

Assessment method

written and oral examination

Office hours

by appointment.

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