UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Optics of The General Contactology 2

2223-2-E3002Q011-E3002Q027M

Aims

The student will learn how to handle and fit custom and special contact lenses.

The student will learn to manage the fitting process and any clinical complications.

Contents

Custom and specialty contact lenses

Detailed program

RGPs contact lenses
Basic requirements, RGP materials and geometries, corneal profile, fluorescein patterns, general fitting principles of corneal lenses, procedures and fitting criteria, procedures to refit subjects with PMMA, identification e choice of materials.
Correction of astigmatism with RGP contact lenses.
Properties of materials. Indications and criteria for the fit of RGP toric contact lenses. The geometry of a rigid toric contact lens, optical considerations and calculation of the final lens.
Correction of presbyopia with RGP contact lenses
Structure and properties of materials. Preliminary assessment and selection of the wearer. Corrective options of presbyopia with contact lenses. Bifocal and multifocal RGP contact lenses and their geometries.
Correction of keratoconus and irregular astigmatism with contact lenses
Incidence of keratoconus and irregular astigmatism, signs and symptoms, management, corrective options with RGP corneal lenses, toric lenses, scleral lenses, high hydration silicone hydrogel lenses,

contact lens fitting in Post-keratoplasty
The post-keratoplasty cornea, optical considerations in the post-surgical application.
Contact lens fitting in post-refractive surgery conditions; corneal profile after refractive surgery, RGP lenses fitting.
Orthokeratology, Patient selection, inverse geometries and their fitting process.
Pediatric contactology, Indications and fitting criteria. a
RGP contact lenses complications, classification and management of complications, classification systems, compliance and prevention grading scales
complications Digital acquisition systems.
Clinical research, methodology and statistics in contactology

Prerequisites

Ottica della contattologia generale module 1 attendance.

Teaching form

Frontal teaching with slides and video materials.

Frontal teaching in Italian

Didactic material in Italian and English.

Textbook and teaching resource

Clinical Manual of Contact Lenses Fifth Edition

authors: Edward S. Bennet and Vinita Allee Henry

Wolters publisher Kluwer Lippincott Williams & Wilkins

material provided by the teacher

Semester

march - june

Assessment method

unique examination comprehensive of modules 1 and 2.

Written part consisting of:

CLOSED ANSWER TEST (Multiple choice choice)

EXERCISES (answer to simple questions that require the application of specific principles or techniques)

Compulsory oral exam after positive result in the written part
The oral will deal with the topics covered during the development of modules 1 and 2

Office hours

On appointment

send request to luca.benzoni@unimib.it

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING