UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Specialty Contact Lenses

2425-1-F1702Q009

Aims

General aims of the module
To extend the range of contact lens work of an optometrist to advance contact lens fitting in special conditions. To improve clinical decision-making in choosing and fitting the proper specialty contact lenses for a specific clinical case. To allow students to interact with ophthalmologists in contact lens management of advanced clinical cases.

Specific learning outcomes (LO)
By the end of the module, a successful student will gain:
-LO1: theoretical knowledge about special ocular conditions to manage with specialty contact lenses
-LO2: theoretical knowledge about specialty contact lens designs and fitting and the ability to assess these kinds of lenses
-LO3: decision-making capabilities in advanced contact lens design fittings (RGP, sclerals, etc) and problem-solving
-LO4: knowledge on how to write a report for other professionals about the outcomes of specialty contact lens fitting

Contents

The module will cover the description of ocular conditions of anterior eye manageable with specialty contact lenses and the principles of specialty contact lenses both in terms of designs and fitting and assessment procedures.

Detailed program

1. Anterior eye conditions relevant in specialty Contact Lens (CL) practice: corneal ectasia (such as

keratoconus) irregular cornea surfaces, corneal dystrophies, and dry eye.
2. Corneal surgery: Refractive Surgery (RK, PRK, LASEK, LASIK), keratoplasty.
3. Scleral CLs
4. Orthokeratology
5. CL fitting for irregular cornea topography (RGP, Hybrids, piggyback etc)
6. Post refractive surgery and post graft CL fitting
7. Prosthetic, cosmetic, therapeutic CLs
8. Dry eye assessment and management
9. Specialty CL case studies

Prerequisites

See curricular prerequisites for the admission Master's Degree Program

Teaching form

Learning objectives will be pursued through different teaching methods:

• Online non-interactive asynchronous lectures (13 hours on topics: 1-8)
• Online interactive synchronous lectures (9 hours on topics n. 1, 3, and 9)
• In person Labs/clinics (12 hours on topics n. 1, 2, 3, 4, 5, 8, and 9)
• Online tutoring
• Student-managed learning

Textbook and teaching resource

Lecturers' handouts
Slides of the lectures
Scientific papers suggested by the lecturers

Semester

Second Semester

Assessment method

Student Assessment is based on three tasks:
• Short Essay
• Final written assessment
• Final oral assessment

The Short Essay is a 1000-word individual report on a Specialty CL case report either seen in the labs or in other clinical practices. It aims to verify the student's achievement of LO4.
It must be delivered within the term of the module and worth 20% of the unit mark maximum (6 out of 30).
The marks will be allocated according to the following marking scheme:
3 out of 30: The report is written according to the CARE guidelines (for Case Reports)
2 out of 30: report demonstrates understanding and grasp of the material involved.
1 out of 30: Correct use of the international standard of units (SI units)

The Final written exam is based on 20 Multiple choice questions (MCQs) and one open question which investigate theoretical knowledge learning that concerns LO1 and LO2
This assessment is delivered at the end of the module and is worth 40% of the unit mark maximum (12 out of 30).

The Final oral exam is based on oral open questions that investigate the LO3, i.e. the decision-making capabilities in advanced contact lens design fittings (RGP, sclerals, etc) and problem-solving.
This assessment is delivered at the end of the module and is worth 40% of the unit mark maximum (12 out of 30).

The final grade will be represented by the sum of the marks achieved in the single three tasks. The minimum mark to pass is 18 out of 30.

Office hours

By appointment

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION