



Advanced mini-Fellowship in Refractive Surgery



Scientific Director

Ioannis Pallikaris

Professor in Ophthalmology

Refractive surgery includes various methods of surgical reshaping of the cornea, lens implantation, or lens replacement. In our days, the optimization of the whole refractive procedure with targeted use of high edge diagnostic technology is mandatory for successful refractive outcomes.



Module 1 course (Distance Learning)

[ECVET Credits 12]

Academic Coordinator: **Sophia Panagopoulou**

Faculty

Renato Ambrosio

- Enhanced screening for ectasia risk.

Dick Burkhard

- Intraocular lens design: from monofocal to trifocal and the dysphotopsias. Trifocals: only for the perfect eye?

Efecan Coskunseven

- Combined surgical techniques for keratoconus.
- Phakic IOLs.

Oliver Findl

- Toric IOLs.

Harilaos Ginis

- Anatomical features of the eye that are important for refractive surgery.
- The IOL optics and technology in clear lens extraction (CLE), (multifocal vs EDOF vs combined vs monovision).

Osamah al Hasani

- Laser refractive procedures, from PRK to SMILE.

John Kanellopoulos

- Custom Excimer Ablations (topography, wavefront and Ray-tracing) for Primary cornea-based refractive surgery and therapeutic applications.
- Corneal Cross-linking (CXL): established efficacy & techniques, evolving technology & indications.



Stephen Klyce

- Topography and refractive surgery.

Dimitrios Kyroudis

- Intraocular Lenses. The industry standards, treating presbyopia and the concept of extended monovision.

Marguerite Mc Donald

- Dry eye and preop Cataract/Lasik patient.

Vardhaman Kankariya

- Femtosecond intrastromal refractive Lenticule Extraction.

Artemis Matsou

- Cataract surgery in keratoconic eyes.

Ken Nischal

- Disruption of emmetropisation leading to Myopia.
- Mechanisms of arresting myopia.

Aris Pallikaris

- Microscopic evaluation of refractive procedures by corneal Confocal Microscopy.

Ioannis Pallikaris

- Introduction to Refractive surgery.
- Vision dynamics.
- Corneal Inlays in presbyopia.

Sophia Panagopoulou

- Refractive status assessment preoperatively, Visual acuity and contrast sensitivity.
- Laser technology. Different systems and their technological aspects.

Sotiris Plainis

- Assessment of the functional vision, reading tests.
- Medical use of contact lenses: optics, optical designs, and therapeutic indications.

Dimitra Portaliou

- Refractive surgery and oculoplastic considerations.

Olga Rosanova

- Binocularity and quality of vision.

Joe Wakil

- New indices to classify and track quality of vision with iTrace topography and wavefront analyzer.

Sonia Yoo

- Epithelial ingrowth: Treatment, recurrence, and long-term results.
- Managing residual refractive errors.



Module 2 course: A hands-on personalized training

Day 1. Introduction on Technology for Objective Assessment of the eye

Day 2. Preop patient evaluation and Laser Applications "Live Surgery"

Day 3. Hands-on training on PRK, Customized Treatments, PTK,
Arcuate cuts, Intracorneal Rings, ICLs

The knowledge that will be provided in this course is on advances in **refractive surgery** techniques and especially on a better understanding of how the target refraction matches the patients' needs, with emphasis on Psycho-physiological aspects of the vision.