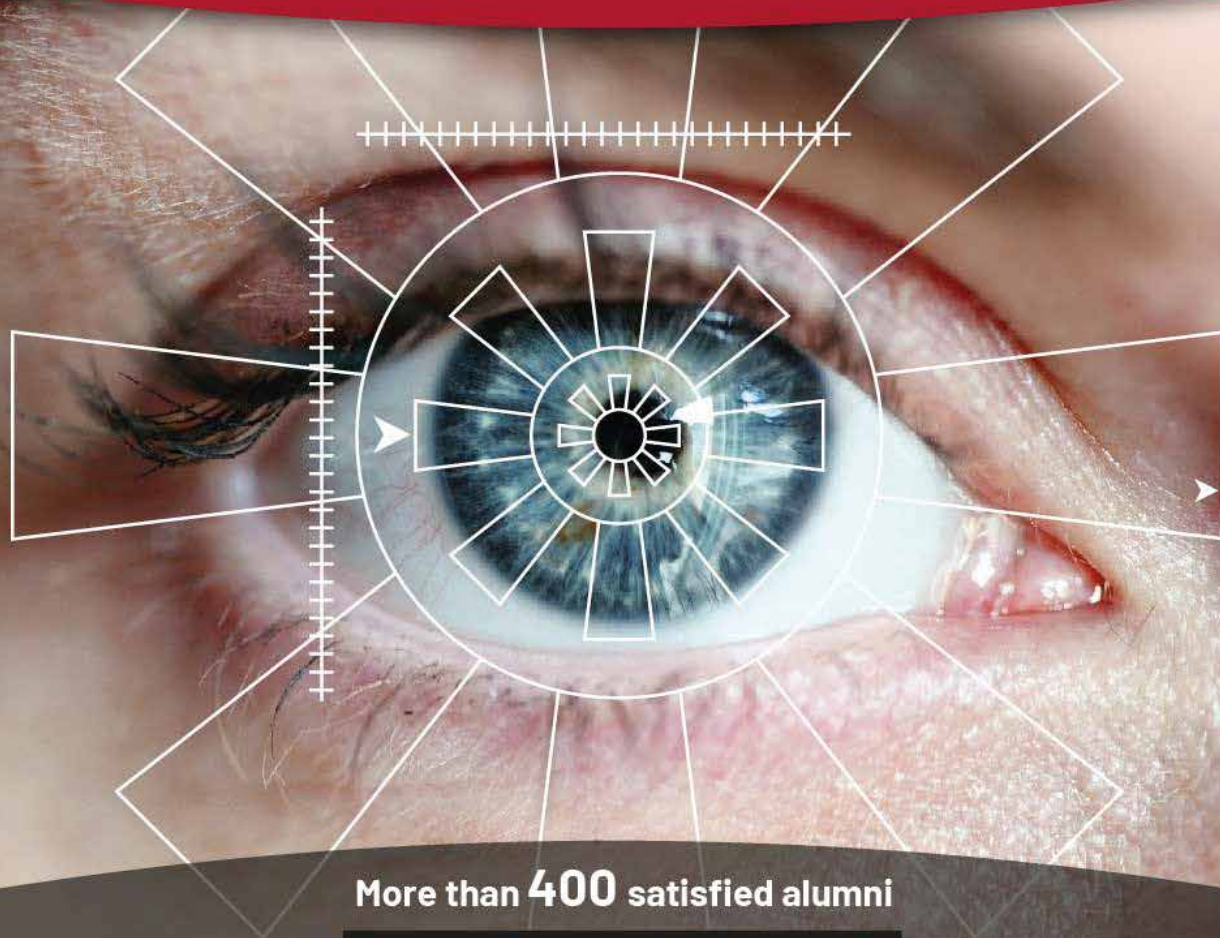


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REFRACTIVE, CORNEA AND LENS SURGERY INTERNATIONAL ONLINE COURSE

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▶ COURSE DIRECTOR:
Prof. Dr. Jorge L. Alió

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Course Director: Prof. Jorge L. Alió MD, PhD, FEBOphth
Associate Director: Dr. Jorge L. Alió del Barrio MD, PhD, FEBOS-CR
Associate Course Director: Mohamed El Bahrawy, MD, Msc

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COURSE CONTENTS

General Introduction to the Course How to run this ON-LINE course

MODULE 1: REFRACTIVE SURGERY

1. Introduction to the Refractive Surgery Module

Part A: Basic Refractive Surgery Course

2. A Short History about Refractive Surgery
3. Refractive Anatomy of the Eye
4. Accommodation of the Eye
5. Methods of studying the eye in Refractive Surgery
6. Methods of studying the Refraction of the eye: Subjective and Objective methods (I) y (II)
7. Refractive errors: causes and associated comorbidities
8. Epithelial thickness mapping in Refractive Surgery screening
9. Methods for the correction of Ametropia: Optical compensation and contact lenses
10. The Correction of High Myopia and High Hyperopia Refractive Errors
11. Outcomes in Refractive Surgery
12. Complications of Refractive Surgery
13. Refractive Surgery and Quality of life

Part B: Advanced Concepts of Refractive Course (Corneal Refractive Surgery)

14. The Sociology of Refractive Surgery
15. Excimer Laser and Photoablation: Basic concepts
16. Surface Excimer Laser Ablation Surgery (PRK)
17. Modern Myopic PRK
18. Laser in Situ Keratomileusis (LASIK) (I)
19. LASIK: Surgical Technique (II)
20. The practice of LASIK and PRK: Surgical Videos
21. Customized Excimer Laser Surgery
22. LASIK: Reoperation Enhancements
23. Myopic Lasik and Astigmatic Lasik
24. Hyperopic Lasik
25. Complications of Lasik
26. Femtosecond Laser Small Incision Lenticule Extraction (SMILE)
27. Presbyopia Surgery
28. Laser Refractive Surgery for Presbyopia: PresbyLASIK
29. Intracorneal Inlays in the correction of Presbyopia
30. Dry Eye in Refractive Surgery (I): Clinical relevance and diagnosis
31. Dry Eye in Refractive Surgery (II): Treatment

Part C: Advanced Refractive Course (Intraocular Refractive Surgery)

32. Phakic intraocular lenses (I): An introduction
33. Phakic IOLs (II): How to March Patients with Lenses for A Successful Outcome
34. Phakic IOLs: (III) The Artilens IOLs
35. Phakic IOLs (IV): The ICL IOL
36. Modern Multifocal IOLs (I): What do they offer, what can we get
37. Modern Multifocal IOLs (II): Complications and their management
38. Extended Depth of focus (EDOF) Intraocular lenses

PART D:

- End of Module Evaluation:
- A- Case study Evaluation:
 - Questions
 - Answers
- B- MCQ Test

COURSE CONTENTS

General Introduction to the Course How to run this ON-LINE course

MODULE 2: FUNDAMENTALS OF CORNEAL SURGERY

1. Introduction to the Corneal Module

Part A: Fundamentals of Corneal Imaging and Treatment Modalities:

- 2. Basics of Corneal Imaging
 - 2.1 Application of Aberrometry in the Clinical Practice
 - 2.2 Anterior Segment OCT
- 3. Corneoplastic Surgery
 - 3.1 Modern Trends in Corneal Grafting Surgery
 - 3.2 Post-operative follow up and Complications in Keratoplasty
- 4. Keratoconus Diagnosis and Management (I)
- 5. Keratoconus Diagnosis and Management (II)
 - 5.1 ICRS: Types and Indications
 - 5.2 Guide of Actions in Keratoconus
- 6. Crosslinking
 - 6.1 Corneoplasty Surgery
 - 6.2 Crosslinking in Refractive Surgery
 - 6.3 Crosslinking in Corneal Infectious

Part B: Modern Corneal Transplantation Surgery:

- 1. Corneal Basic Suturing techniques
- 2. Corneal Surgical Instruments tutorial
- 3. Corneal Lamellar Techniques:
 - 3.1 DALK
 - Big Bubble Technique
 - Manual Technique
 - 3.2 DMEK
 - 3.3 DSAEK
 - 3.4 Bowmann Layer Transplantation
- 4. Penetrating Keratoplasty (PKP)
- 5. Femtosecond Laser Corneal Surgery
 - 5.1 Introduction to Fs Laser Corneal Surgery
 - 5.2 Femtosecond Lasik
 - 5.3 Femtosecond laser assisted Keratoplasty
 - 5.4 Femtosecond laser Corneal Excision
 - 5.5 Femtosecond laser assisted Keratopigmentation and other applications
- 6. Glaucoma in Corneal Transplantation: Therapeutic approaches
- 7. End of Module Evaluation:
 - A- Case Study Evaluation:
 - Questions
 - Answers
 - B- MCQ Test

COURSE CONTENTS

General Introduction to the Course How to run this ON-LINE course

MODULE 3: ADVANCED KERATOCONUS COURSE

1. Introduction to the Module: Modern treatment alternatives of keratoconus
 2. Keratoconus: Diagnosis, Grading and Advanced Treatment alternatives
 3. Paediatric Keratoconus
 4. Intracorneal rings and segments
 5. Advanced concepts in Collagen Cross Linking (CXL)
 6. Advanced Keratoconus treatment with combined customised PRK and CXL
 7. Corneal grafting in Keratoconus
 8. Cataract surgery in Keratoconus
-
9. End of Module Evaluation
- A- End of Module Case study Evaluation
- Questions
 - Answers
- B- MCQ Test

MODULE 4: LENS SURGERY

Introduction to the module

Part A: Surgical Modalities

1. Basic Phacoemulsification Course
 - 1.1 Introduction and Basic Concepts
 - 1.2 Elements of Phacoemulsification
 - 1.3 Starting Up the Surgery
 - 1.4 Viscoelastics in Phacoemulsification
 - 1.5 Phacoemulsification Surgery: Stepwise Approach (PART 1)
 - 1.6 Phacoemulsification Surgery: Stepwise Approach (PART 2)
 - 1.7 Complications in Phacoemulsifications
 - 1.8 End of Course Quiz
2. Minimal Invasive Lens Surgery Course
 - 2.1 MILS: Part 1
 - 2.2 MILS: Part 2
 - 2.3 End of Course Quiz
3. Refractive Lens Exchange: Indications and Outcomes
 - 3.1 Refractive Lens Exchange
 - 3.2 End of Course Quiz
4. Femtosecond Assisted Cataract Surgery
5. Refractive Surgery after Cataract Surgery
6. Cataract Surgery following Corneal surgery
7. Bilensectomy: Indications, surgical techniques and outcomes

PART B: INTRAOCULAR LENSES

8. Intraocular lenses in Refractive lens Surgery
 - 8.1 IOL Calculation
 - 8.2 IOL Calculation following Corneal Refractive Surgery
 - 8.3 Aspheric IOLs
 - 8.4 Toric IOLs

9. End of the Module Evaluation

- A- End of Module Case study Evaluation:
- Questions
 - Answers
- B- MCQ Test

COURSE CONTENTS

General Introduction to the Course How to run this ON-LINE course

MODULE 5: GUIDELINES & STANDARD PROTOCOLS IN REFRACTIVE SURGERY (CORNEA AND INTRAOCULAR)

1. Introduction to the module
2. How to understand the outcomes of refractive and lens surgery: standard indexes and graphs for reporting refractive surgery
3. Guidelines and standards in Refractive Surgery
4. Guidelines and standards in Cataract Surgery
5. Guidelines and standards in Cornea Surgery

End of the Module Evaluation

- A- End of Module Case study Evaluation
 - Questions
 - Answers
- B- MCQ Test

MODULE 6: GOOD CLINICAL PRACTICE

1. External Educational Service link
2. Module Course Evaluation
3. How to understand the outcomes of refractive and lens surgery: standard indexes and graphs for reporting refractive surgery
4. Guidelines and standards in Refractive Surgery
5. Guidelines and standards in Cataract Surgery

End of the Module Evaluation

- A- End of Module Case study Evaluation
 - Questions
 - Answers
- B- MCQ Test

MODULE 7: FINAL EVALUATION

1. Instructions for the End of the Course Evaluation:
 - 1.1 Clinical Cases Final Evaluation:
 - Questions
 - Answers
 - 1.2 Final Project (Optional)
2. Epilogue : The full history of Refractive Surgery and future innovations to come

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