

# PROGRAM



## *CORE Specialty Workshops*

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SCLERAL LENSES

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**CORE**

Centre for Ocular  
Research & Education

# DAY 1 TOPICS



## **9:00 Morning Session - Lecture (3 hours)**

- Definition & peculiarity of scleral lenses
- Anatomy of a scleral lens
- Indications & Contraindications
- Ocular shape
- Building a scleral lens practice

## **11:00 – 11:30 COFFEE BREAK**

- Scleral lens fitting steps
- Patient education and accessories for lens handling
- Clinical tips to facilitate patient education and lens handling
- Not all blanchings are the same - Differentiations and management
- Clinical tips on lens design for problem-solving. Changes in the:
  - base curve to optimize corneal clearance,
  - back optic zone diameter and decentration of the back optic zone to alter mid-peripheral corneal clearance,
  - oblate design to reduce minus power,
  - limbal zone to avoid congestion and touch and manage decentered ectasias,
  - landing zone for toric, quadrant-specific, and customized designs.

## **13:00 – 14:00 LUNCH**

## **Afternoon Session - Hands-on (3 hours)**

**Participants will be divided into different groups**

- Eye surface profilometry – Acquisition, interpretation, and prediction of lens parameters and behavior on the eye

## **15:30 – 16:00 COFFEE BREAK**

- Scleral lens application and evaluation:
  - Lens selection from the diagnostic set
  - Slit-lamp assessment
  - OCT
  - How to design a customized scleral lens

# DAY 2 TOPICS



## **9:00 Morning Session - Lecture (3 hours)**

- Dry eye and ocular surface disease challenges
- Piggyback scleral lenses
- Advances in scleral lenses (prisms and telescopes in the optic zone)
- IOP & scleral lenses
- Corneal edema: Contributing factors to consider
- Post-keratoplasty: When to fit scleral lenses and when to avoid them?

## **11:00 – 11:30 COFFEE BREAK**

- Scleral lens complications
  - discuss the main complications with scleral lenses and management strategies
- Blanching vs. indentation - differentiation and management
- Advanced clinical tips for lens design in challenging cases
- Case reports discussion

## **13:00 – 14:00 LUNCH**

## **Afternoon Session - Hands-on (3 hours)**

### **Participants will be divided into different groups**

- Eye surface profilometry – Acquisition, interpretation, and prediction of lens parameters and behavior on the eye

## **15:30 – 16:00 COFFEE BREAK**

- Empirical scleral lens design:
  - Scleral topography to labs
  - How to design a customized scleral lens

## **CORE SPECIALTY WORKSHOPS**



# HANDS-ON



The afternoon sessions will focus on hands-on experience. Multiple diagnostic sets of scleral lenses will be available, giving everyone the chance to practice fitting them.



# HANDS-ON



Scleral lens fitting technology will be available during the workshop, providing hands-on experience with scleral mapping and techniques for initial lens selection and assessment on the eye.



# ABOUT CORE

CORE seamlessly integrates clinical observations with insights from basic biosciences. Our interdisciplinary team investigates diverse research questions, building on insights to design multi-faceted solutions and develop new biomaterials and technology.

CORE Education shares research results, trains students and fellows, and offers continuing education while leveraging the expertise of the CORE research team to create engaging educational tools for clinical practitioners, keeping them up-to-date and enhancing patient communication.

CORE excels in fundamental and clinical research on pharmaceuticals, biomaterials (including contact lenses), ocular physiology, and imaging.

CORE, founded in 1988 as CCLR at the University of Waterloo, leads in ocular research. It contributed to contact lens advancements, including silicone hydrogel lenses, extended wear, disposable lenses, and understanding lens wear dissatisfaction. CORE's crucial role includes preliminary testing for many contact lens and dry eye products before regulatory approval.

**CORE SPECIALTY WORKSHOPS**



# OUR SPEAKERS



## Daddi Fadel

### Speaker & Lead project

Clinical Scientist at CORE and Head of EUROSCOLE. She has several peer-review publications and author of books focused on scleral lenses.



## Randy Kojyma

### Speaker in Vancouver

This space is where you can expound on the role of this team member. You can share the credentials and responsibilities as well.



## Langis Michaud

### Speaker in Halifax

This space is where you can expound on the role of this team member. You can share the credentials and responsibilities as well.



## Shalu Pal

### Speaker in Toronto

This space is where you can expound on the role of this team member. You can share the credentials and responsibilities as well.

## Discussion & Take Home Messages

In this specific section, you can write your inquiries, curiosities, or key takeaway points that you'd like to remember

Insert a task or question

Insert a task or question

Insert a task or question





# Contact Us

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**Tell me and I  
forget.  
Teach me and I  
remember.  
Involve me and  
I learn**

-  
Benjamin Franklin

