



DRAFT

Comprehensive Corneal Course: Pathology-Focused

22-24 October 2025 12-14 November 2025 19-20 November 2025

University of Brescia (Brescia) / Venice Eye Bank (Venice) - Italy

Course Chairman: Francesco Semeraro Course Scientific Coordinators: Alessandro Ruzza, Vito Romano ESASO Scientific Director: Mario Romano

Introduction

This proposal outlines the structure of an innovative corneal training course focusing on corneal and ocular surface surgery to address disease like Keratoconus, Fuchs Endothelial Dystrophy, and Bullous Keratopathy and ocular surface disease. The program is designed to provide participants with an in-depth the different surgical techniques through a combination of theoretical education, practical wet labs, surgical skill development, and live surgery observation.

The course will take place across three distinguished locations, each providing specialized facilities and expertise: the Venice Eye Bank, and the University of Brescia.



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ESASO Foundation Villa Saroli, Via Stefano Franscini 9 Tel. +41 (0)91 921 11 54 PO BOX 5269 6901 Lugano, Switzerland

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Learning Objectives

Develop a comprehensive understanding of the pathophysiology, clinical presentation, and management of anterior and posterior lamella surgery and ocular surface surgery.

Master advanced graft preparation techniques (DMEK, DSAEK, DALK). Gain confidence in suturing and handling corneal tissues in a wet lab setting. Observe live surgeries to bridge the gap between theory and clinical practice.

Target Audience

Ophthalmology residents, young full ophthalmologists, and fellows. Corneal surgeons seeking to refine their surgical techniques. Eye bank specialists interested in advancing their knowledge of graft preparation. The level of the course is intermediate

Facilities

Venice Eye Bank:

Renowned for expertise in tissue preparation and distribution, offering high-quality donor corneas for hands-on training.

University of Brescia:

A leading centre for corneal surgery with experienced faculty providing real-world surgical insights.

Conclusion

This course offers a unique, multidisciplinary approach to corneal pathology and surgery, leveraging the expertise and resources of three distinguished centres. Participants will leave with a well-rounded skill set and confidence to manage complex corneal cases effectively.



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22-24 October 2025 / Course 1 - Anterior lamellar Module

	Theoretical training	
18:00 – 20:00	 Overview of Keratoconus pathology and diagnosis. Advances in non-surgical management (e.g., cross-linking, scleral lenses). 	Vito Romano / TBC
	Indications for surgical intervention and grafting techniques	
23 October 2	2025 - University of Brescia	
08:00 – 13:00	Live Surgery Observation Opportunity to observe a variety of anterior lamellar corneal surgeries including: DALK big bubble / manual DALK / PK/ mushroom PK	Vito Romano / TBC
13:00-14:30	Lunch	
14:30-16:00	Postoperative case discussions Debriefing on what was seen during the morning	Vito Romano / TBC
16:00-16:10	Closing remarks Travelling to Venice	Vito Romano / TBC
24 October 2	2025 - Eye Bank Venice	
08:00 – 13:00	 Wet Lab: Introduction to suturing techniques. Practice using artificial and donor corneas to develop skills in partial-thickness grafting. Techniques to assess donor tissue quality and manage challenging cases. Training in suturing techniques for full-thickness and partial-thickness corneal grafts. Preparation of corneal grafts for DALK procedures, Bowman layer transplantation and CAIRS. 	Alessandro Ruzza / TBD
13:00-14:00	Lunch	
14:00-16:00	Wet Lab	Alessandro Ruzza / TBD
16:00-16:10	Closing remarks	Alessandro Ruzza / TBD

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12-14 November 2025 / Course 2 - Posterior lamellar Module

12 Novembe	er 2025 - University of Brescia	
18:00 – 20:00	 Treatment options: medical management versus surgical - interventions. 	Vito Romano / TBD
(2 N	Discussion of penetrating keratoplasty versus lamellar techniques.	
13 Novembe	er 2025 - University of Brescia	
08:00 – 13:00	Live Surgery Observation Opportunity to observe a variety of posterior corneal surgeries including DMEK / DSAEK / Graft preparation	Vito Romano / TBD
13:00-14:30	Lunch	
14:30-16:00	Postoperative case discussions Debriefing on what was seen during the morning	Vito Romano / TBD
16:00-16:10	Closing remarks Travelling to Venice	Vito Romano / TBD
14 Novembe	er 2025 - Eye Bank Venice	
08:00 – 13:00	 Wet Lab: Introduction to suturing techniques. Practice using artificial and donor corneas to develop skills in partial-thickness grafting Techniques to assess donor tissue quality and manage challenging cases Training in suturing techniques for full-thickness and partial-thickness corneal grafts Preparation of ultra-thin DSAEK/ DMEK: peeling, loading, unfoalding 	Alessandro Ruzza / TBD
13:00-14:00	Lunch	
14:00-16:00	Wet Lab	Alessandro Ruzza / TBD
16:00-16:10	Closing remarks	Alessandro Ruzza / TBD



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19-20 November 2025 / Course 3 - Ocular surface Module

12 November 2025 - University of Brescia

	Theoretical training:				
18:00 – 20:00	- Overview of Ocular Surface Pathologies: pterygium,				
	persistent epithelial defects, band keratopathy				
	 Comparative analysis of ocular surface disorders and the role 				
	of surgical intervention in managing recurrent or advanced				
	cases.	Vito Romano /			
	 Innovative Adjuncts in Ocular Surface Reconstruction: 				
	Amniotic Membrane Transplantation (AMT): biological	TBD			
	properties, mechanisms of action, and role in reducing				
	inflammation and fibrosis.				
	Platelet-Rich Plasma (PRP) Application: overview of PRP				
	preparation and its growth factors in promoting wound				
	healing.				
13 November 2025 - University of Brescia					
	Opportunity to observe a variety of ocular surface surgeries including				
	Drawaine Engine Observe a line demonstration of				
	- Pterygium Excision: Observe a live demonstration of	Vita Domana /			
08:00 – 13:00	 Pterygium Excision: Observe a live demonstration of pterygium excision employing state-of-the-art techniques. 	Vito Romano /			
08:00 – 13:00		Vito Romano / TBD			
08:00 – 13:00	pterygium excision employing state-of-the-art techniques.				
08:00 - 13:00 13:00-14:30	 pterygium excision employing state-of-the-art techniques. Amniotic membrane placement 				
13:00-14:30	 pterygium excision employing state-of-the-art techniques. Amniotic membrane placement Application of PRP to enhance ocular surface healing. 				
	 pterygium excision employing state-of-the-art techniques. Amniotic membrane placement Application of PRP to enhance ocular surface healing. 	TBD			
13:00-14:30 14:30-16:00	 pterygium excision employing state-of-the-art techniques. Amniotic membrane placement Application of PRP to enhance ocular surface healing. Lunch Postoperative case discussions Debriefing on what was seen during the morning	TBD Vito Romano /			
13:00-14:30	 pterygium excision employing state-of-the-art techniques. Amniotic membrane placement Application of PRP to enhance ocular surface healing. Lunch Postoperative case discussions	TBD Vito Romano / TBD			



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