



1ST THE INTERNATIONAL KERATOCONUS SOCIETY
WORLD KERATOCONUS CONGRESS

WKC

2024

Scientific
PROGRAM

19-20 APRIL
Le Méridien Dubai Hotel
& Conference Centre, UAE



www.wkcongress.com

Welcome to

WKC 2024

The congress of the International keratoconus society (IKS). This event gathers all the experts in keratoconus and ectatic diseases from around the world under one roof to share their knowledge, research, and best practice.



Prof. Mazen Sinjab

President of the congress
Chief co-founder &
general secretary of the society

The dream has become a reality. One umbrella for all experts in the field of keratoconus and ectatic corneal diseases. We come together to lay the foundations, unify concepts, and shape the future. It is the opportune moment for you to have a role and contribute a building block in this monumental edifice.



Dr. Miltiadis Balidis

Vice president for educational affairs
Head of the scientific committee

Welcome to International Keratoconus Society, a global community to support those affected by keratoconus. Whether you are a patient or a healthcare professional, this society is a beacon of knowledge, compassion, and collaboration. We aim to provide a platform for sharing experiences, insights, and advancements. Our society spans borders and cultures, fostering connections that transcend boundaries. Through a wealth of resources, forums, and events, we strive to enhance awareness and education about keratoconus, ensuring that individuals worldwide receive the information and support they need. We are united in our commitment to improving the lives of those impacted by this condition.



Dr. Rashid Alsaidi

President of the Society

On behalf of the Organizing Committee of 1st world keratoconus congress, Greetings to all presenters and participants! We extend a warm welcome to each of you, expressing sincere gratitude to our plenary and invited speakers. The Faculty of IKS proudly organizes this international congress, marking the inaugural step toward an exceptional event on keratoconus science, pathophysiology, and management, setting the stage for standardized guidelines tailored to our region and age demographics. Anticipating a rich exchange of research ideas, this conference aims to advance our understanding of keratoconus sciences and related corneal pathologies, exploring diagnostic and management strategies.



Dr. Adel Barbara

Vice President for International Affairs

Keratoconus, now recognized as a new subspecialty in ophthalmology, benefits from advanced diagnostics and treatment modalities, emphasizing the importance of early detection and treatment. The International Journal of Keratoconus and Ectatic Corneal Diseases (IJKECD) adopted by the International Keratoconus Society (IKS) serves as the educational cornerstone, highlighting the commitment of IKS to advancing research. WKC acts as a collaborative platform for experts, researchers, industries, and healthcare professionals, fostering a deeper understanding of keratoconus. The congress in Dubai holds immense significance, contributing to the refinement of diagnostic approaches, treatment strategies, and patient care protocols.

CONGRESS *Committee*

Mazen Sinjab
WKC 2024 President

Miltiadis Balidis
Head of Scientific Committee

Adel Barbara

Cosimo Mazzotta

Mohamed Hosny

Mohamed Shafik

Rashid Alsaidi

Shady Awwad



CONGRESS *Faculty*

Abdelrahman Salman
Adel Barbara
Ahmed Alsaadi
Ahmed Elmassry
Ahmed Mohamed Sherif
Aliyeva Sidiga
Anisha R
Asim Ali
Berthold Seitz
Carlos Gordillo
Christopher Liu
Cosimo Mazzotta
Cristina Peris
Cynthia Roberts
Deepthi R H
Durgalaxmi Modak
Efekan Coskunseven
Giovanni Alessio
Giuseppe Addabbo
Giuseppe D'Ippolito
Grigory Osipyan
Haikel Kammoun
Haitham Al Mahrouqi
Hams Samy
Hidenaga Kobashi
Hossam Ziada
Khusam Khraistin
Leon Grupenmacher
Loïc Hamon
Malena Parmeggiani
Marco Abbondanza
Marco Zagari
Marta Calatayud
Marwan Ghabra
Mayank Nanavaty
Mazen Sinjab

Merab Dvali
Merieme Harouch
Michael Belin
Miguel Rechichi
Miltiadis Balidis
Moataz Mohammad Wessam
Mohamed Hosny
Mohamed Shafik
Mohamed Tarek Elnaggar
Mohamed-Sameh El-Agha
Murad Alobthani
Nada Alyusuf
Nancy Al Raqqad
Olivier Prisant
Osama Ibrahim
Ouzzani Mhamed
Panaah Shetty
Pooja Khamar
Rashid Alsaïdi
Roberto Albertazzi
Rohit Shetty
Safwan Al Bayati
Salah Eddine Benmoussa
Shady Awwad
Shihao Chen
Srihari Balraj
Vanessa C Pongo V
Vanessa R. Moodley
Vardhaman Kankariya
Vibha Singh
Waleed Abou Samra
Wan Haslina Halim
Wassim Altroudi
Wisam Shihadeh
Yasser Rifay

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Speakers

INSTRUCTIONS

Congress halls will be equipped with:

Two laptops: one Apple Mac & one PC with Microsoft Windows 11 and Microsoft Office 2019.

Internet access will NOT be available inside the meeting rooms.

To ensure that the meeting progresses smoothly, please stick to the following instructions:

- All presentations should be saved on a USB flash memory (preferred).
- Please save presentations in PowerPoint 2007 or later format for PC and Keynote for Apple.
- Upload your presentation early to the Audiovisual Center (RM Events) as we will load the presentations to the hard drive of our systems before the sessions by one hour.
- No personal laptops are permitted for presentations.
- In case you have problems with your presentation(s), please do not hesitate to contact the IT support team (RM Events).

Computerized Count-Down TIMER

will monitor speakers' time

So make sure to present during the given time,
as **NO EXTRA TIME IS ALLOWED**

12:55  → 00:55 



Session 1
09:00 - 11:30
Diagnostics

Chairperson: **Michael Belin**

Panelists: **Cynthia Roberts, Mazen Sinjab, Mohamed Tarek Elnaggar**

- 09:00 Children with high astigmatism: Tomographic and refractive characteristics and the ability of current indices to rule out keratoconus
Asim Ali
- 09:08 Adding the homburg biomechanical E-Staging to Belin's ABCD keratoconus staging system for early diagnosis and assessment of progression
Berthold Seitz
- 09:16 Cone location affects biomechanical response
Cynthia Roberts
- 09:24 Population screening for keratoconus
Haitham Al Mahrouqi
- 09:32 Updates in keratoconus morphology
Moataz Mohammad Wessam
- 09:40 Key biological markers in progressive keratoconus
Pooja Khamar
- 09:48 Genetic screening revealed latent keratoconus in asymptomatic individuals
Shihao Chen
- 09:56 Anterior segment characteristics of keratoconus eyes using scheinplufug imaging technology
Aliyeva Sidiga
- 10:04 Multimodal corneal imaging in evaluation of very asymmetrical ectasia VAE
Mohamed Tarek Elnaggar
- 10:12 Comparison of corneal tomographic and biomechanical parameters in keratoconus, first degree relatives and normal
Wan Haslina Halim
- 10:20 Accuracy of MS 39 in early diagnosis of keratoconus
Yasser Rifay
- 10:28 Diagnostic accuracy of corneal and epithelial thickness map parameters to detect keratoconus and suspect keratoconus
Abdelrahman Salman
- 10:36 Bandage therapeutic-optical keratoplasty in keratoconus patients after intrastromal corneal segments implantation
Grigory Osipyan
- 10:44 Diagnosing Keratoconus and Early Ectasia Solely Through Corneal Pachymetry Data
Shady Awwad
- 10:52 Discussion

**Opening
1** 11:30 - 12:15
Opening Ceremony

Speakers: **Mazen Sinjab, Rashid Alsaidi, Adel Barbara, Miltiadis Balidis**

**Session
2** 12:15 - 13:30
Remote Surgery Course & Lunch

- 12:15 4D suite: Automation and remote control
Giuseppe D'Ippolito
- 12:30 Customized treatment for ectasia: From wavefront to raytracing
Mohamed Hosny
- 12:40 My experience on treating keratoconus using a high definition aberrometer
Mohamed Shafik
- 12:50 CXL alone or combined for ectasia: What we learned in 16 years
Osama Ibrahim
- 13:00 My experience in laser assisted DALK, how to enhance it
Hamed Anwar
- 13:10 Long term results of ray-tracing customized ablation and cross linking for ectasia
Cosimo Mazzotta
- 13:20 Benefits, social and healthcare cost savings of the SDTF process
Giuseppe Addabbo

**Break
1** 13:30 - 14:00
Prayer/Break

**Live
1** 14:00 - 14:30
Remotely Controlled Live Surgery

Surgeon: **Giovanni Alessio**

- 14:00 Live surgery, Case introduction
Giovanni Alessio
- 14:10 Live surgery
Giovanni Alessio

Session 3 14:30 - 16:00
Navigating Keratoconus Treatment: A Tapestry of Therapeutic Strategies- Part 1

Chairperson: **Adel Barbara**

Panelists: **Ahmed Alsaadi, Olivier Prisant, Shady Awwad**

- 14:30 Xenia implants for moderate keratoconus
Ahmed Elmassry
- 14:38 Is femto-DALK worth the hassle?
Murad Alobthani
- 14:46 Contact lens -assisted collagen crosslinking for thin keratoconic corneas
Ahmed Mohamed Sherif
- 14:54 CAIRS & PMMA, comparison of results between 2 surgical technique in keratoconus
Carlos Gordillo
- 15:02 Can we understand the critical link of eye rubbing and inflammation by molecular pathways and it's potential therapeutics
Deepthi R H
- 15:10 Intracorneal ring segments: Pearls for success
Haikel Kammoun
- 15:18 Laser in KC; rules of the roles!!
Hossam Ziada
- 15:26 Safety and efficacy of epithelial island crosslinking in keratoconus with thinnest pachymetry less than 400µ
Mohamed-Sameh El-Agha
- 15:34 Deep anterior lamellar keratoplasty + phakic IOL implant after failed combined intracorneal ring segments (ICRS)+ ICL in a patient with keratoconus. Report of a case
Marta Calatayud
- 15:42 Flattening effect of corneal cross linking in ultrathin corneas: Sub400 protocol
Ouzzani Mhamed
- 15:50 Biomarkers driven management in keratoconus
Rohit Shetty
- 15:58 Discussion

Break 2 16:00 - 16:15
Coffee Break

Session 4 16:15 - 17:45
Navigating Keratoconus Treatment: A Tapestry of Therapeutic Strategies- Part 2

Chairperson: **Adel Barbara**

Panelists: **Berthold Seitz, Cosimo Mazzotta, Rohit Shetty**

- 16:15 Multicenter, randomized, double-masked, sham-controlled, parallel-group phase 3 FDA study to evaluate the efficacy and safety of epithelium-on corneal cross-linking in subjects 8 to 45 years of age with keratoconus
Michael Belin
- 16:23 Toric ICL in keratoconus, mystery cases
Nancy Al Raqqad
- 16:31 Long term stability of intracorneal ring segment implantation followed by same-day topography-guided PRK and crosslinking.
Olivier Prisant
- 16:39 Phakic ICLs for keratoconus correction (20 Years' Experience)
Merab Dvali
- 16:47 Adapting and applying Sub400 protocol with Accelerated Corneal Crosslinking (ACXL) device (9mW /cm² - continuouslight UV irradiation)
Vanessa C Pongo V
- 16:55 Minimal invasive topography guided photorefractive keratectomy with custom cross linking (MITCX)
Wassim Altroudi
- 17:03 The M nomogram: Tackling the route of the standardized treatment of thin ectatic corneas
Cosimo Mazzotta
- 17:11 Combined treatments for refractive tuning in keratoconus: Phakic IOLs
Miguel Rechichi
- 17:19 A novel technique for porcine corneal lenticular implantation in patients with advanced keratoconus
Marwan Ghabra
- 17:27 Corneal remodeling with progressive thickness ICR segments
Efekan Coskunseven
- 17:35 Customised peripheral corneal cross-linking (P-CXL) for ultra-thin corneas with stage 3 and 4 keratoconus: a novel alternative to more invasive surgery
Marco Abbondanza
- 17:43 Discussion

Session
5 17:45 - 19:30
Hot Topic 1

Chairperson: **Mohamed Shafik**

Panelists: **Hidenaga Kobashi, Murad Alobthani, Vanessa R. Moodley**

- 17:45 A multi-level, interdisciplinary keratoconus management model: Leaving no child behind
Vanessa R. Moodley
- 17:50 Epi off CXL & insulin: Case series
Carlos Gordillo
- 17:55 Seeing beyond: A 10-year journey with XTRA in lenticular extraction
Durgalaxmi Modak
- 18:00 Imaging the collagen & Bowman's layer thickness and its impact in understanding pathophysiology of keratoconus outcomes
Srihari Balraj
- 18:05 Sublingual immunotherapy (SLIT): Its role in management of ocular allergies and keratoconus (KC)
Vibha Singh
- 18:10 Intolerable nighttime dysphotopsias after ICRS
Hams Samy
- 18:15 Evaluation of a new portable corneal topography system for self-measurement using smartphones: A pilot study
Hidenaga Kobashi
- 18:20 Altered corneal biomechanics according to the biomechanical E-Staging in pellucid marginal degeneration
Loïc Hamon
- 18:25 New approach for asymmetric and advanced keratoconus: Double concentric ICSR
Malena Parmeggiani
- 18:30 Ten-year experience of using proxymatacaine to control postoperative pain in crosslinking (CXL) for keratoconus
Mayank Nanavaty
- 18:35 To determine the incidence and to describe the clinical profile of keratoconus in Kingdom of Bahrain
Nada Alyusuf
- 18:40 Clinical characteristics of keratoconus patients attending a tertiary eye centre in Kuala Lumpur, Malaysia
Wan Haslina Halim
- 18:45 Keratoconic treatment by CAIRS, first 7 cases result
Safwan Al Bayati

Hot Topic 1 (Continued)

- 18:50 Pediatric keratoconus: Global management is the key success
Merieme Harouch
- 18:55 Accelerated local corneal crosslinking
Khusam Khraistin
- 19:00 IOL calculation in keratoconus
Ahmed Alsaadi
- 19:05 Cretan plus protocol - Newer advancement in CXL with long term outcomes
Cristina Peris
- 19:10 Evaluation of the corneal biomechanics using corvis after different laser vision correction
Wessam Salem
- 19:15 Discussion

Dinner 20:30
1 Dinner

Session 6
09:00 - 10:30
Hot Topic 2

Chairperson: **Christopher Liu**
 Panelists: **Nada Alyusuf, Rashid Alsaïdi, Shihao Chen**

- 09:00 Different fitting philosophies in challenging corneas
Waleed Abou Samra
- 09:05 ICR in unclassified cases of Keratoconus
Salah Eddine Benmoussa
- 09:10 Toric Implantable Phakic Contact Lens in correction of stable keratoconus after corneal collagen crosslinking
Mohamed Salah El Din Mahmoud
- 09:15 One-year visual and refractive outcomes of deep Anterior Lamellar Keratoplasty (DALK) in patients with advanced keratoconus
Muhammad Abdul Moqet
- 09:20 Technical feasibility and efficacy of LDV Z8-assisted Bowman layer transplantation in stabilizing progressive advanced keratoconus
Hassan Mansoor
- 09:25 Total WFG PRK and ACXL Early visual rehabilitation and stability for suspicious and early KC patients A case study
Mohamed Reffat
- 09:30 Corneal topographic keratometric changes and visual outcomes after corneal allogenic intrastromal ring segment (CAIRS) implantation for keratoconus
Tamer Salem
- 09:35 An innovative approach to calculate IOL power in keratoconic patients
Shiva Pirhadi
- 09:40 Surgical management of corneal hydrops: Deep corneal sutures alone oriented By preoperative corneal OCT
Moatez Billah Mekki
- 09:45 The ocular surface microbiota in naïve keratoconus
Davide Borroni
- 09:50 Unveiling the inflammatory pathways: A key to understanding keratoconus progression
Ghaleb Seif
- 09:55 The patten of using contact lens for keratoconus in Saudi Arabia
Abdulrahman Alharbi
- 10:00 Femtosecond laser-assisted implantation of ferrara versus myo rings for keratoconus correction
Enas Mourad

Hot Topic 2 (Continued)

- 10:05 Keratoconus in children, from diagnosis to treatment, about 115 cases
Bouchra Allali
- 10:10 Long-term (20-year) experience with intracorneal rings and results
Leon Grupenmacher
- 10:15 Intracorneal ring segments implantation in corneal ectasia – The experience of a German keratoconus reference center
Loïc Hamon
- 10:20 Customized approach to keratoconus management
Wisam Shihadeh
- 10:25 Discussion
- Break 3** 10:30 - 10:45
Coffee Break
-

Session 7 10:45 - 12:15
Keratoconous Fun Club

Chairperson: **Miltiadis Balidis**

Team: **Cosimo Mazzotta, Mohamed Hosny, Mohamed Shafik, Shady Awwad, Vardhaman Kankariya**

Keynote 1 12:15 - 12:30
Keynote 1: Yaron Rabinowitz Keynote lecture

12:15 Keratoconus genetic pathophysiology and progression factors
Cosimo Mazzotta

Keynote 2 12:30 - 12:45
Keynote 2

12:30 Describing curvature in keratoconus: Axial vs tangential and single point vs zonal average
Cynthia Roberts

Keynote 3 12:45 - 13:00
Keynote 3

12:45 INFINITY "The inelegant brain for the research"
Mazen Sinjab

Break 4 13:00 - 14:30
Lunch Break with the Exhibitors

Session 8 14:30 - 16:00
Innovations

Chairperson: **Shady Awwad**
Panelists: **Cosimo Mazzotta, Pooja Khamar, Roberto Albertazzi**

- 14:30 ByLimb: Development of a new technique to implant intracorneal ring-segments from the perilimbal region
Roberto Albertazzi
- 14:38 How can tear biomarkers help in determining cross-linking outcomes
Anisha R.
- 14:46 Efficacy of keravio using violet light emitting glasses without riboflavin drops for progressive keratoconus
Hidenaga Kobashi
- 14:54 Combining crosslinking with keratoplasty: The DRXL- DALK procedure
Marco Zagari
- 15:02 Collagen regeneration/ Lysyl oxidase enzyme regeneration: Is this a possibility in keratoconus?
Panaah Shetty
- 15:10 Advancing gene therapy for keratoconus: Bridging the gap between research and treatment
Pooja Khamar
- 15:18 Ray tracing central corneal remodeling plus pachymetry guided accelerated crosslinking for keratoconus, long term results
Cosimo Mazzotta
- 15:26 Collagen imaging in keratoconus
Rohit Shetty
- 15:34 Excimerlaser-assisted deep anterior lamellar keratoplasty (DALK) or penetrating keratoplasty (PKP) in advanced keratoconus
Berthold Seitz
- 15:42 Discussion

Break 5 16:00 - 16:15
Coffee Break

Session 9 16:15 - 16:45
Best Papers Winners Awards

Closing 1 16:45 - 17:15
Closing Remarks & Announcement for WKC 2025

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