

37TH CONGRESS OF THE ESCRS

PARIS EXPO, PORTE DE VERSAILLES

14 - 18 SEPTEMBER 2019



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WELCOME FROM THE PRESIDENT

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Dear Colleagues,

On behalf of the Board and Officers of the European Society of Cataract and Refractive Surgeons it is my great pleasure to welcome you to Paris for the 37th Congress of the ESCRS. Our extensive scientific programme is aimed at cataract and refractive surgeons of all levels of experience, and includes numerous expert symposia and nearly 200 instructional and surgical skills training courses.

The 2019 Binkhorst Medal Lecture will be given by Ehud Assia during the Opening Ceremony at 10.00 on Sunday morning and the title of his lecture is 'Thinking outside the box: new perspective on current surgical technologies'. David Spalton will give this year's Heritage Lecture on Monday morning before the Main Symposium. The lecture will focus on the origins of cataract surgery. On Wednesday the 'Best of the Best' review session will take a look at some of the most interesting ideas that will emerge over the coming days, and is the perfect way to round off the Congress.

Our pocket programme will be a useful guide for those wishing to navigate their way through the Congress using the highlighted programme tracks. You can also find the tracks and all the programme information on the Congress app.

With so much on offer it will be impossible to attend every session. However, if you log on to the Education Portal on the ESCRS website you can access the sessions and didactic courses on ESCRS On Demand and ESCRS iLearn, as well as discover a wide range of video content and other material.

A scientific programme of this size requires a lot of planning, and I would like to thank the members of the Programme and Education committees for their continued hard work. I would also like to thank the individuals and other societies who have contributed to the organisation of a scientific session or course.

I am delighted to welcome you to my home country. I hope you will find this Congress rewarding and also find time to enjoy some of the unique sights and gastronomic delights that Paris has to offer.

Yours sincerely,



Béatrice Cochener-Lamard
President, ESCRS

	AUDITORIUM	NORTH 3	SOUTH 1	SOUTH 2	POSTER VILLAGE
08.00					
09.00		P. 18 Understanding & Dealing with Dysphotopsia	P. 20 REFRACTIVE SURGERY DIDACTIC COURSE	P. 21 YO PROGRAMME Starting Phaco (including YO videos)	
10.00					
11.00					P. 158 ESONT POSTER SESSION
12.00		Next Generation IOLs			
13.00		CLINICAL RESEARCH SYMPOSIA			
14.00	P. 23 ESCRS/ EUCORNEA SYMPOSIUM	Translational Research in Ocular Surgery			P. 23 MODERATED POSTER SESSION
15.00	Cataract Surgery in Eyes with Diseased Corneas				
16.00	P. 28 VIDEO SYMPOSIUM ON CHALLENGING CASES	Hitting the Target with IOLs			P. 25-27 PRESENTED POSTER SESSIONS
17.00					
18.00					
19.00					

SOUTH 3 SOUTH 4 SOUTH 5 SOUTH 6 WEST 1 WEST 2 WEST 3 WEST 4 WEST 5 WEST 6 WEST 7 WEST 8

08.00

P. 22

IC01
Basic microsurgical suturing techniques for beginners

P. 160

ESONT COURSE
Biometry & IOL power calculations for refractive cataract surgery

10.00

P. 160

ESONT COURSE
An introduction to refractive surgery (Part 1)

11.00

P. 22

IC02
Malpositioned lenses: optimal surgical management techniques

IC03
Conquering capsule complications: my best teaching videos

IC04
Explanting IOLs & refixating secondary IOLs

IC05
LASIK: basic steps for safety & great results

IC06
Glaucoma surgery: modern perspectives

IC07
Corneal cross-linking therapy

IC08
How to avoid the mistakes we made in converting to DMEK

IC09
Correction of astigmatism using toric IOLs, LRIs & refractive laser surgery

IC10
Basic phaco (Part 1)

12.00

13.00

14.00

P. 24

IC11
Learning phaco chop: pearls & pitfalls

IC12
Dry eye: an ocular surface disease after cataract & refractive surgery

IC13
Management of anterior segment trauma

IC14
Demystifying biometry with the Barrett IOL calculator

IC15
Microinvasive glaucoma surgery

IC16
Understanding OVDs to optimise their use in cataract surgery & complications

IC17
Targeting millennials & grandmas through Facebook

IC18
Endothelial keratoplasty: UTDSEK, PDEK & DMEK

IC19
Corneal tattoo

IC20
Your online marketing ROI

P. 160

ESONT COURSE
B-Scan ultrasound of the anterior & posterior segments

P. 160

ESONT COURSE
Infection control

16.00

P. 29

IC21
Posterior capsule rupture: mastering vitrectomy & IOL implantation, a video-based course

IC22
Big bubble, no trouble: a step-by-step approach to successful deep anterior lamellar keratoplasty with the big bubble technique

IC23
Paediatric penetrating keratoplasty: to do or not to do?

IC24
New concepts & research on keratoconus

IC25
Boston type 1 keratoprosthesis: from indications to innovations

IC26
LASIK: update with surgical tips in primary & secondary cases - basic comparison with surface ablation technique

IC27
PRK, LASEK & Epi-LASIK

IC28
Minimally invasive glaucoma surgery: time to shine

IC29
Basic phaco (Part 2)

IC30
Primary posterior capsulorhexis: indications & surgical techniques

6	AUDITORIUM	NORTH 3	FREE PAPER FORUM				SOUTH 1	SOUTH 5	WEST 8	POSTER VILLAGE
			PODIUM 1	PODIUM 2	PODIUM 3	PODIUM 4				
08.00										
09.00										
10.00	P. 41 OPENING CEREMONY & BINKHORST MEDAL LECTURE		P. 33 FREE PAPERS Small Lenticule Extraction I	P. 34 FREE PAPERS Keratoconus & Secondary Ectasia	P. 35 FREE PAPERS Toric IOLs & Lens Power Calculations	P. 36 FREE PAPERS Ocular Infections & Other Topics	P. 32 PART 1 <i>Visual Optics</i>		P. 38	P. 38-41 PRESENTED POSTER SESSIONS
11.00	P. 42 MAIN SYMPOSIUM Surgeons Under Stress						WORKSHOP ON VISUAL OPTICS	P. 158 ESONT FORUM		
12.00										
13.00										
14.00										
15.00	P. 43 JCRS SYMPOSIUM Controversies in Cataract & Refractive Surgery	P. 43 VIDEO AWARDS SESSION	P. 44 FREE PAPERS Extended-Depth-Of-Focus IOLs I	P. 45 FREE PAPERS Combined Cataract Surgery & Practice Styles	P. 46 FREE PAPERS Posterior Chamber Phakic IOLs	P. 47 FREE PAPERS Microinvasive Glaucoma Surgery	P. 158 ESONT SYMPOSIUM <i>The Best Practices in Clinics & Operating Rooms</i>			P. 48 MODERATED POSTER SESSION
16.00							P. 2 <i>Visual Behaviour (Visual Function)</i>			P. 49-51 PRESENTED POSTER SESSIONS
17.00	P. 57 VIDEO SYMPOSIUM ON SURGICAL COMPLICATIONS You Make the Call		P. 53 FREE PAPERS Multifocal IOLs I	P. 54 FREE PAPERS Paediatric Cataract Surgery	P. 55 FREE PAPERS LASIK & PRK I	P. 56 FREE PAPERS Corneal Biomechanics	P. 3 <i>Imaging the Human Eye</i>	P. 52 YO SESSION Cataract Surgery: Learning From Our Mistakes		
18.00										
19.00										

FREE PAPERS: CORNEA CATARACT REFRACTIVE OTHER

	SOUTH 2	SOUTH 3	SOUTH 4	SOUTH 6	WEST 1	WEST 2	WEST 3	WEST 4	WEST 5	WEST 6	WEST 7													
08.00	P. 37	IC31 The management of complications encountered during cataract surgery	IC32 The basics of corneal topography: finally understanding what you are seeing	IC33 Ocular trauma assessment & management	IC34 Therapeutic corneal refractive surgery: achieving excellent outcomes in complications after LASIK or PRK	IC35 Manual small incision cataract surgery (MSICS): a video-based primer	IC36 Overview of phakic IOLs	IC37 Comprehensive keratoplasty techniques (Part 1)	IC39 Corneal surgery assisted by femtosecond laser	IC40 Limbic stem cell deficiency (LSCD): etiology, diagnosis & management	IC41 Curbside consult for keratoconus: a case-based approach	IC42 IOL power calculation: update by the IOL Power Club												
09.00																								
10.00																								
	P. 42	IC43 Managing phaco complications in rock hard cataracts	IC44 Toric IOLs: planning for success & dealing with failure	IC45 Enhanced screening & planning prior to refractive surgery: corneal topography, tomography, biomechanics & beyond	IC46 Techniques & devices for surgical reconstruction of traumatic & developmental iris defects	IC47 Schlemm's canal surgery: ab-externo & ab-interno (viscocanalostomy & canaloplasty)	IC48 Management of paediatric cataracts	IC38 Comprehensive keratoplasty techniques (Part 2)	IC84 The very basic phaco course															
11.00																								
12.00																								
13.00																								
14.00																								
	P. 48	IC49 Residual astigmatism after toric intraocular lens implantation: what to do next?	IC50 Introduction to visual behavior	IC51 Premium IOLs after corneal refractive surgery	IC52 A video tutorial for the novice & intermediate DMEK surgeon to make unscrolling & more efficient & reproducible	IC53 DMEK 2.0: pull-through technique	IC54 Cataract surgery in coexisting corneal pathology	IC55 IOL power calculations: when biometry is not enough	IC56 Methods for IOL exchange	IC57 Ocular surface masterclass for the cataract surgeon	IC58 Advanced intracorneal segment implantation													
15.00																								
16.00	P. 52	IC59 A video bouquet of phaco complications which should never have occurred: tips on damage control & prevention to optimise postoperative outcomes	IC60 FLACS: the state of the art	IC61 Therapeutic refractive surgery for treatment of secondary corneal optical irregularities & keratoconus	IC62 Functional oculoplastic surgery for cataract & refractive surgeons	IC63 Ocular surface procedures in the treatment room	IC64 Teaching statistics in the overall context of preparing & writing a scientific paper	IC65 Fuchs' endothelial dystrophy: new concepts about pathophysiology & treatment – DSAEK, DMEK or DWEK?	IC66 Customised cross-linking	IC67 Optimising toric IOL outcomes	IC68 Enhancing the 'wow' factor in small incision lenticule extraction	IC69 Visual field evaluation												
17.00																								
18.00																								

AUDITORIUM	FREE PAPER FORUM				SOUTH 4	SOUTH 5	WEST 7	WEST 8	POSTER VILLAGE
	PODIUM 1	PODIUM 2	PODIUM 3	PODIUM 4					
08.00								P. 60	
09.00									
10.00									
11.00									
12.00									
13.00									
14.00									
15.00									
16.00									
17.00									
18.00									
19.00									
20.00									

FREE PAPERS:

CORNEA

CATARACT

REFRACTIVE

OTHER

	SOUTH 1	SOUTH 2	SOUTH 3	SOUTH 4	SOUTH 6	WEST 1	WEST 2	WEST 3	WEST 4	WEST 5	WEST 6	WEST 7
08.00		P. 60										
09.00		P. 160										
10.00	ESONT COURSE Optical coherence tomography for ophthalmic professionals											
11.00	P. 159											
12.00	ESONT SYMPOSIUM Complications of Cataract Surgery: A Multidisciplinary Team Approach											
13.00												
14.00												
15.00		P. 75										
16.00		P. 80										
17.00												
18.00												

	FREE PAPER FORUM				NORTH 3	SOUTH 4	POSTER VILLAGE
	AUDITORIUM	PODIUM 1	PODIUM 2	PODIUM 3	PODIUM 4		
08.00							
09.00		P. 88 FREE PAPERS Advanced Optic IOLs	P. 89 FREE PAPERS Cataract Surgery: Special Cases	P. 90 FREE PAPERS Cornea Surgical: Lamellar Corneal Grafts	P. 91 FREE PAPERS Advanced Tools for Outcome Assessment		
10.00							P. 93-95 PRESENTED POSTER SESSIONS
11.00							
12.00	P. 96 MAIN SYMPOSIUM The Unhappy Pseudophakic Patient						
13.00							
14.00						P. 96 PRESBYOPIA WORKSHOP Challenging the Latest Presbyopia Technologies	P. 101 MODERATED POSTER SESSION
15.00		P. 97 FREE PAPERS Cataract Surgery: Complications & Management	P. 98 FREE PAPERS Posterior Capsule Opacification/ IOL Power Calculations	P. 99 FREE PAPERS Corneal Refractive Surgery	P. 100 FREE PAPERS Ocular Pathology/ Education & Training		
16.00							
17.00		P. 102 FREE PAPERS New IOL Optic Design	P. 103 FREE PAPERS Monofocal IOLs: New Biomaterials & Visual Performance	P. 104 FREE PAPERS Corneal Presbyopia & Astigmatism Correction	P. 105 FREE PAPERS Quality of Vision Evaluation		
18.00							
19.00					P. 106 ISRS SYMPOSIUM Oh, La, La: What's Hot in Refractive, Cornea & Cataract Surgery		
20.00							

FREE PAPERS: CORNEA CATARACT REFRACTIVE OTHER

	WEST 1	WEST 2	WEST 3	WEST 4	WEST 5	WEST 6	WEST 7	WEST 8
08.00								
09.00	P. 92 IC108 Anterior segment surgical solutions for secondary repair of post-traumatic eyes: a video-based course	IC109 The surgeon's guide to SMILE: complications & retreatments	IC110 Tips & tricks for refractive lens exchange in challenging patients	IC111 Expanding applications of corneal cross-linking (CXL) & early detection of keratoconus	IC112 Age-related macular degeneration IOLs	IC113 The ocular surface & cataract, refractive & glaucoma surgery	IC114 The evolution of PTK: from plano to transepithelial custom corneal wavefront-guided ablations	IC115 Website content that converts
10.00								
11.00								
12.00								
13.00								
14.00	P. 101 IC116 Management of dissatisfaction after multifocal IOL	IC117 Complications in LASIK: prevention & management	IC118 ReLex SMILE tips and pearls for curious beginners	IC119 Descemet's membrane endothelial keratoplasty challenges	IC120 The transition from cataract surgery to refractive cataract surgery	IC121 Updates on ocular inflammation for the cataract & refractive surgeon	IC122 How to get to #1 in your market	
15.00								
16.00								
17.00								
18.00								

	NORTH 3	NORTH 4
08.00		
09.00		P. 108 'BEST OF THE BEST' REVIEW SESSION
10.00		
11.00		
12.00	P. 108 MAIN SYMPOSIUM Long-Term Implications of Standard Refractive Procedures	
13.00		

SURGICAL SKILLS TRAINING COURSES

WETLABS AND RELATED INSTRUCTIONAL COURSES

Wetlab participants must attend the relevant pre-requisite course in order to gain theoretical knowledge prior to hands-on training. See instructional course overview on pages 5 - 11 for times.

Basic Phacoemulsification

(Wetlabs 11, 12, 14, 33, 55-57)

PRE-REQUISITE: Instructional Course No. 10 & No. 29

(This is a four-hour course consisting of two instructional courses, each of two hours duration)

Basic Suturing Techniques (Corneal/Scleral/Trauma/Keratoplasty)

(Wetlabs 2-8, 27, 28, 46-49, 59, 60, 69-73, 76)

PRE-REQUISITE: Instructional Course No. 01

Boston Keratoprosthesis (B-KPro)

(Wetlabs 15 & 16)

PRE-REQUISITE: Instructional Course No. 25

Corneal Cross-Linking Therapy

(Wetlabs 25 & 26)

PRE-REQUISITE: Instructional Course No. 07

DMEK & DSEK

(Wetlabs DMEK: 18, 29, 52, 65; DSEK: 17, 31, 42, 58)

PRE-REQUISITE: Instructional Course No. 37 & No. 38

(This is a four-hour course consisting of two instructional courses, each of two hours duration)

Glaucoma: Viscocanalostomy & Canaloplasty (Ab Externo & Ab Interno)

(Wetlabs 35 & 36)

PRE-REQUISITE: Instructional Course No. 47

Intraocular & Transscleral Suturing Techniques (Wetlabs 1 & 9)

PRE-REQUISITE: Instructional Course No. 02

Iris Fixation Aphakic IOL (Wetlabs 66 & 74)

PRE-REQUISITE: Instructional Course No. 108

Iris Fixation Phakic IOL (Wetlab 13)

PRE-REQUISITE: Instructional Course No. 36

LASIK (Wetlabs 19, 20, 40 & 41)

PRE-REQUISITE: Instructional Course No. 05 or No. 26

Lens Implantation (Wetlabs 10, 43, 44, 67 & 68)

PRE-REQUISITE: Instructional Course No. 04

Manual Small Incision Cataract Surgery (Wetlabs 30 & 50)

PRE-REQUISITE: Instructional Course No. 35

Modern MIGS Techniques Not Using Implants (Wetlabs 37 & 38)

PRE-REQUISITE: Instructional Course No. 28

Modern MIGS Techniques Using Implants (Wetlabs 23 & 24)

PRE-REQUISITE: Instructional Course No. 28

Phaco: Management of Complications (Wetlabs 53, 62-64, 75)

PRE-REQUISITE: Instructional Course No. 101

Phaco: Management of Complications for Beginners (Wetlab 61)

PRE-REQUISITE: Instructional Course No. 101

Posterior Capsulorhexis 'Bag in the Lens' (Wetlab 34)

PRE-REQUISITE: Instructional Course No. 30

PRK, LASEK & Epi-LASIK (Wetlabs 21, 22 & 39)

PRE-REQUISITE: Instructional Course No. 27

Refractive Success in Astigmatism Management with Toric IOLs and Image-Guided Technologies (Wetlab 45)

PRE-REQUISITE: Instructional Course No. 80

Practice Room

The Wetlab Practice Room is located beside the wetlab rooms and is available for any wetlab participants to further the skills they have learned.

The Practice Room will provide facilities for participants to continue practicing the following:

- Phacoemulsification
- Phakic IOL
- PRK
- Suturing
- Viscocanalostomy

Use of the Practice Room is FREE OF CHARGE but spaces are limited, so admission will be strictly on a first come, first served basis. Reserve a space with the hostess located outside the room.

Phacoemulsification Dry-Labs

VR Magic virtual reality machines will be available for delegates to use from Sunday 15 to Tuesday 17 September.

This equipment allows participants to try the basic phacoemulsification procedure in a 'dry lab' environment. Each participant will be able to spend 30 minutes working on one of the machines.

Use of the machines is FREE OF CHARGE, but will be allocated on a first come, first served basis. Reserve a space with the hostess located outside the Practice Room.

SURGICAL SKILLS TRAINING COURSES

Location: Level 7.3, East

Cost per course €100 or *€150 (plus VAT)
All courses are €100 (plus VAT) for trainees

	Course Number	Time	Course	Instructor
Saturday 14 September				
Room East 3	1	15.30 – 18.00	Intraocular and Transscleral Suturing*	V. Pfeifer <i>SLOVENIA</i> , E. Assia <i>ITALY</i>
Room East 4	2	09.45 – 11.30	Basic Suturing Techniques	B. Frueh <i>SWITZERLAND</i>
	3	12.00 – 13.45	Basic Suturing Techniques	P. Schollmayer <i>SLOVENIA</i>
	4	14.15 – 16.00	Basic Suturing Techniques	R. Bellucci <i>ITALY</i>
	5	16.30 – 18.15	Basic Suturing Techniques	C. Leydolt <i>AUSTRIA</i> , D. Schartmuller <i>AUSTRIA</i>
Room East 5	6	12.30 – 14.15	Basic Suturing Techniques	T. Rudolph <i>SWEDEN</i> , C. Jansén <i>SWEDEN</i>
	7	14.45 – 16.30	Basic Suturing Techniques	D. Kook <i>GERMANY</i> , W.J. Mayer <i>GERMANY</i>
	8	17.00 – 18.45	Basic Suturing Techniques	R. Lapid-Gortzak <i>THE NETHERLANDS</i> , M. Dickman <i>THE NETHERLANDS</i>
Room East 6	9	13.30 – 15.30	Intraocular and Transscleral Suturing*	P. Stodulka <i>CZECH REPUBLIC</i>
	10	16.45 – 18.45	Lens Explantation*	D. Hildebrand <i>UK</i> , R. Packard <i>UK</i>
Sunday 15 September				
Room East 1	11	08.00 – 10.00	Basic Phacoemulsification	P. Schollmayer <i>SLOVENIA</i>
	12	10.30 – 12.30	Basic Phacoemulsification	P. Stodulka <i>CZECH REPUBLIC</i>
	13	13.30 – 15.30	Iris Fixation Phakic IOL	E. Pedrotti <i>ITALY</i>
	14	16.30 – 18.00	Basic Phacoemulsification	N. Reus <i>THE NETHERLANDS</i>
Room East 2	15	08.30 – 10.30	Boston Keratoprosthesis (B-KPro)*	A. Crnej <i>SLOVENIA</i> , M. Cortina <i>USA</i> , A. Cruzat <i>USA</i>
	16	11.00 – 13.00	Boston Keratoprosthesis (B-KPro)*	A. Crnej <i>SLOVENIA</i> , M. Cortina <i>USA</i> , A. Cruzat <i>USA</i>
	17	13.30 – 15.30	DSEK*	D. Calladine <i>UK</i>
	18	16.00 – 18.00	DMEK*	L. Baydoun <i>GERMANY</i> , D. Dragnea <i>ROMANIA</i> , L. Ham <i>THE NETHERLANDS</i> , S. Ní Dhubhghaill <i>IRELAND</i> , J. Peraza-Nieves <i>SPAIN</i>
Room East 3	19	09.00 – 10.30	LASIK*	A. Stojanovic <i>NORWAY</i>
	20	11.00 – 12.30	LASIK*	P. Jirak <i>AUSTRIA</i> , V. Derhartunian <i>AUSTRIA</i>
	21	13.00 – 14.30	PRK, LASEK & Epi-LASIK*	D. Epstein <i>SWITZERLAND</i>
	22	16.45 – 18.15	PRK, LASEK & Epi-LASIK*	D. Epstein <i>SWITZERLAND</i>
Room East 4	23	12.15 – 15.15	Modern MIGS Techniques Using Implants*	Z. Khoueir <i>LEBANON</i> , K. Mansouri <i>SWITZERLAND</i> , A. Tatham <i>UK</i> , A. Al Habash <i>SAUDI ARABIA</i>
	24	15.45 – 18.45	Modern MIGS Techniques Using Implants*	Z. Khoueir <i>LEBANON</i> , A. Tatham <i>UK</i> , A. Al Habash <i>SAUDI ARABIA</i>

SURGICAL SKILLS TRAINING COURSES

	Course Number	Time	Course	Instructor
Room East 5	25	08.30 – 10.30	Corneal Cross-Linking Therapy	K. Mikek <i>SLOVENIA</i> , C. Koppen <i>BELGIUM</i>
	26	11.00 – 13.00	Corneal Cross-Linking Therapy	K. Mikek <i>SLOVENIA</i> , C. Koppen <i>BELGIUM</i>
	27	14.00 – 15.45	Basic Trauma Suturing Techniques	B. Sitki Aslan <i>TURKEY</i>
	28	16.00 – 17.45	Basic Keratoplasty Suturing Techniques	D. Calladine <i>UK</i>
Room East 6	29	09.00 – 11.00	DMEK*	A. Saad <i>FRANCE</i> , F. Badala <i>ITALY</i>
	30	12.45 – 14.45	Manual Small Incision Cataract Surgery	S. Jacob <i>INDIA</i>
	31	15.00 – 17.00	DSEK*	A. Salvador <i>SPAIN</i> , I. Sassot <i>SPAIN</i>

Monday 16 September

Room East 1	32	10.30 – 12.30	Astigmatism Management & Toric IOL	R. Fernández-Buenaga <i>SPAIN</i>
	33	14.00 – 16.00	Basic Phacoemulsification	J. Peraza-Nieves <i>SPAIN</i> , J. Torras Sanvicens <i>SPAIN</i>
	34	16.45 – 18.45	Posterior Capsulorhexis ‘Bag in the Lens’*	M.J. Tassignon <i>BELGIUM</i> , S. Ní Dhubhghaill <i>IRELAND</i> , C. Billotte <i>FRANCE</i> , L. Van Os <i>BELGIUM</i>
Room East 2	35	08.00 – 10.00	Glaucoma: Viscocanalostomy & Canaloplasty (Ab Externo & Ab Interno)*	V. Jasinskas <i>LITHUANIA</i>
	36	10.30 – 12.30	Glaucoma: Viscocanalostomy & Canaloplasty (Ab Externo & Ab Interno)*	S. Ondrejka <i>GERMANY</i>
	37	13.00 – 16.00	Modern MIGS Techniques Not Using Implants*	Z. Khoueir <i>LEBANON</i> , I. Singh <i>USA</i> , S. Dorairaj <i>USA</i>
	38	16.30 – 19.30	Modern MIGS Techniques Not Using Implants*	Z. Khoueir <i>LEBANON</i> , I. Singh <i>USA</i> , S. Dorairaj <i>USA</i>
Room East 3	39	08.30 – 10.00	PRK, LASEK & Epi-LASIK	D. Epstein <i>SWITZERLAND</i>
	40	10.30 – 12.00	LASIK*	K. Ditzen <i>GERMANY</i>
	41	13.15 – 14.45	LASIK*	K. Ditzen <i>GERMANY</i>
	42	15.15 – 17.45	DSEK*	A. Sabala <i>SPAIN</i>
Room East 4	43	09.00 – 11.00	Lens Implantation*	L. de Benito-Llopis <i>SPAIN</i> , R. Angunawela <i>UK</i>
	44	14.00 – 16.00	Lens Implantation*	M. Fernandez <i>INDIA</i> , A. Borthakur <i>INDIA</i>
	45	16.30 – 18.30	Refractive Success in Astigmatism Management with Toric IOLs and Image-Guided Technologies	A. Dmitriew <i>POLAND</i>
Room East 5	46	09.30 – 11.15	Basic Corneal Suturing Techniques	F. Mutlu <i>TURKEY</i>
	47	11.45 – 13.30	Basic Scleral Suturing Techniques	D. Kook <i>GERMANY</i> , A. Wolf <i>GERMANY</i>
	48	14.00 – 15.45	Basic Trauma Suturing Techniques	M. Nanavaty <i>UK</i> , S. Khan <i>UK</i> , S. Vasavada <i>INDIA</i>
	49	16.00 – 17.45	Basic Keratoplasty Suturing Techniques	F. Akata <i>TURKEY</i>
Room East 6	50	08.30 – 10.30	Manual Small Incision Cataract Surgery	A. Chakrabarti <i>INDIA</i> , R. Solanki <i>INDIA</i>
	51	11.30 – 13.00	Supplementary Lens*	G. Kahraman <i>AUSTRIA</i> , K. Gundersen <i>NORWAY</i>
	52	14.00 – 16.00	DMEK*	M. Busin <i>ITALY</i> , C. Bovone <i>ITALY</i> , A. Ruzza <i>ITALY</i> , V. Scorcio <i>ITALY</i>
	53	16.45 – 18.45	Phaco: Management of Complications*	R. Packard <i>UK</i> , A. Panico <i>ITALY</i>

SURGICAL SKILLS TRAINING COURSES

Location: Level 7.3, East

Cost per course €100 or *€150 (plus VAT)
All courses are €100 (plus VAT) for trainees

	Course Number	Time	Course	Instructor
Tuesday 17 September				
Room East 1	54	08.00 – 09.30	Micro-Incision Phaco	S. Morselli <i>ITALY</i> , A. Toso <i>ITALY</i>
	55	10.30 – 12.30	Basic Phacoemulsification	R. Mohan <i>ITALY</i>
	56	13.30 – 15.30	Basic Phacoemulsification	M. Kynigopoulos <i>SWITZERLAND</i> , I. Vastardis <i>SWITZERLAND</i>
	57	16.00 – 18.00	Basic Phacoemulsification	I. Dekaris <i>HUNGARY</i>
Room East 2	58	08.00 – 10.00	DSEK*	J. Peraza-Nieves <i>SPAIN</i> , R. Cuiña Sardiña <i>SPAIN</i>
	59	10.30 – 12.15	Basic Corneal Suturing Techniques	F. Mutlu <i>TURKEY</i>
	60	12.45 – 14.30	Basic Scleral Suturing Techniques	N. Vidovic Valentincic <i>SLOVENIA</i>
Room East 3	61	08.00 – 10.00	Phaco: Management of Complications for Beginners	V. Džinić <i>SERBIA</i> , A. Hüning <i>BRAZIL</i>
	62	10.30 – 12.30	Phaco: Management of Complications*	J. Bolger <i>UK</i>
	63	13.00 – 15.00	Phaco: Management of Complications*	J. Bolger <i>UK</i>
	64	15.30 – 17.30	Phaco: Management of Complications*	J. Bolger <i>UK</i>
Room East 4	65	08.00 – 10.00	DMEK*	M. Busin <i>ITALY</i> , C. Bovone <i>ITALY</i> , A. Ruzza <i>ITALY</i> , V. Scorgia <i>ITALY</i>
	66	10.30 – 12.00	Iris Fixation Aphakic IOL	R. Khoramnia <i>GERMANY</i>
	67	14.00 – 16.00	Lens Explantation*	L. Benjamin <i>UK</i>
	68	16.30 – 18.30	Lens Explantation*	N. Lau <i>UK</i>
Room East 5	69	09.30 – 11.15	Basic Corneal Suturing Techniques	F. Sutter <i>SWITZERLAND</i>
	70	11.45 – 13.30	Basic Scleral Suturing Techniques	E. Mrukwa-Kominek <i>POLAND</i>
	71	14.00 – 15.45	Basic Trauma Suturing Techniques	G. Hawlina <i>SLOVENIA</i>
	72	16.00 – 17.45	Basic Keratoplasty Suturing Techniques	Y. Akova <i>TURKEY</i> , B. Cosar <i>TURKEY</i>
Room East 6	73	09.30 – 11.15	Basic Corneal Suturing Techniques	A. Prinz <i>AUSTRIA</i>
	74	11.30 – 13.00	Iris Fixation Aphakic IOL	N. Franqueira <i>PORTUGAL</i>
	75	13.15 – 15.15	Phaco: Management of Complications*	V. Džinić <i>SERBIA</i> , A. Hüning <i>BRAZIL</i>
	76	15.45 – 17.30	Basic Corneal Suturing Techniques	I. Can <i>TURKEY</i>



SATURDAY

14 September

SATURDAY 14 SEPTEMBER

08.30 – 17.30

CLINICAL RESEARCH SYMPOSIA

Creative Research and Clinical Dissemination

North 3

08.30 – 10.30

Understanding and Dealing with Dysphotopsia

Chairpersons: **O. Findl** *AUSTRIA*
R. Nuijts *THE NETHERLANDS*

- 08.30 **N. Mamalis** *USA*
Positive and negative dysphotopsias: a serious problem?
- 08.45 **M. Simpson** *USA*
Ray tracing of negative dysphotopsias
- 09.00 Discussion
- 09.10 **J. Beenakker** *THE NETHERLANDS*
Uncovering the origin of negative dysphotopsias with MRI: the ESCRS vRESPOND Study
- 09.25 **J. Murta** *PORTUGAL*
Neuroadaptation in patients with dysphotopsia: the ESCRS NECSUS Study
- 09.40 Discussion
- 09.50 **S. Palkovits** *AUSTRIA*
Quantifying negative dysphotopsias
- 10.05 **S. Masket** *USA*
IOL designs to avoid negative dysphotopsias
- 10.20 Discussion
- 10.30 End of session

11.00 – 13.00

Next Generation IOLs

Chairpersons: **D. Gatinel** *FRANCE*
J. Hjortdal *DENMARK*

- 11.00 **J. Alió** *SPAIN*
New presbyopia-correcting IOLs
- 11.15 **A. Langenbacher** *GERMANY*
Multifocal add-on IOLs
- 11.30 Discussion
- 11.40 **G. Auffarth** *GERMANY*
Material selection for the perfect future IOL
- 11.55 **L. Werner** *USA*
Femtosecond laser modification of IOLs
- 12.05 Discussion
- 12.20 **S. Marcos** *SPAIN*
Optical perspectives for optimising future IOLs
- 12.35 **F. Cabot** *USA*
Present myth but future reality: development of true accommodative IOLs
- 12.50 Discussion
- 13.00 End of session

CLINICAL RESEARCH SYMPOSIA

13.30 – 15.30

Translational Research in Ocular Surgery

Chairpersons: **G. Auffarth** *GERMANY*
B. Cochener-Lamard *FRANCE*

- 13.30 **G. Tuohy** *IRELAND*
 From basic sciences to clinical application: new regulatory procedures
- 13.45 **G. Pellegrini** *ITALY*
 Corneal stem cell implantation for ocular surface reconstruction
- 14.00 Discussion
- 14.10 **D. Smadja** *ISRAEL*
 New galenics and nanotechnology in topical ocular drug delivery
- 14.25 **R. Shetty** *INDIA*
 The explosion of biomarkers
- 14.40 Discussion
- 14.50 **G. Le Meur** *FRANCE*
 Hope for gene therapy in ophthalmology
- 15.05 **T. Fuchsluger** *GERMANY*
 Stimulation of corneal endothelial cell regeneration
- 15.20 Discussion
- 15.30 End of session

15.30 – 17.30

Hitting the Target with IOLs

Chairpersons: **G. Kleinmann** *ISRAEL*
J. Murta *PORTUGAL*

- 15.30 **B. Cochener-Lamard** *FRANCE*
 Optimisation of the ocular surface for accurate biometric measurements
- 15.45 **G. Barrett** *AUSTRALIA*
 Understanding biometric measurements and validation criteria: when and how should we treat low corneal astigmatism?
- 16.00 Discussion
- 16.10 **A. Abulafia** *ISRAEL*
 IOL power calculation in regular and unique cases
- 16.25 **J. Ladas** *USA*
 Artificial intelligence and big data in IOL power calculation
- 16.40 Discussion
- 16.50 **R. Nuijts** *THE NETHERLANDS*
 Intraoperative wavefront aberrometry
- 17.05 **N. Hirschall** *AUSTRIA*
 Intraoperative OCT measurements
- 17.20 Discussion
- 17.30 End of session

08.30 – 17.45

EBO Accredited see p. 164

REFRACTIVE SURGERY DIDACTIC COURSE

South 1

Part 1: Diagnostic Techniques

Moderators: **D. Epstein** *SWITZERLAND*
C. Roberts *USA*

- 08.30 **D. Siganos** *GREECE*
Patient selection
- 08.45 **F. Ribeiro** *PORTUGAL*
Corneal topography
- 09.05 **G. Kymionis** *GREECE*
Lasers in refractive surgery
- 09.25 **C. Roberts** *USA*
Biomechanics of the cornea
- 09.45 **S. Barisic** *SERBIA*
IOL calculation strategies
- 10.00 **R. Applegate** *USA*
Quality of vision evaluation
- 10.20 Break

Part 2: Therapeutic Techniques: Intraocular Surgery

Moderators: **J. Güell** *SPAIN*
A. Marinho *PORTUGAL*

- 10.30 **A. Marinho** *PORTUGAL*
Phakic IOLs
- 10.50 **P. Rosen** *UK*
Refractive lens exchange
- 11.10 **R. Nuijts** *THE NETHERLANDS*
Toric IOLs
- 11.30 **O. Findl** *AUSTRIA*
Multifocal and EDOF IOLs
- 11.50 **J. Güell** *SPAIN*
Refractive reoperations and enhancements
- 12.10 **N. Hirschall** *AUSTRIA*
Discussion of case reports
- 12.30 Break

Part 3: Therapeutic Techniques: Corneal Surgery

Moderators: **J. Alió** *SPAIN*
D. Touboul *FRANCE*

- 14.30 **D. Epstein** *SWITZERLAND*
Cross-linking and refractive surgery
- 14.50 **F. Malecaze** *FRANCE*
Intrastromal inlays (biological and synthetic)
- 15.10 **J. Alió** *SPAIN*
Topo and wavefront-guided ablations
- 15.30 **V. Katsanevaki** *GREECE*
LASIK complications
- 15.50 **F. Malecaze** *FRANCE*
Laser refractive surgery for presbyopia
- 16.10 **J. Hjortdal** *DENMARK*
Surface ablation techniques
- 16.30 **B. Cochener-Lamard** *FRANCE*
Small lenticule extraction
- 16.50 **T. Kohnen** *GERMANY*
Incisional corneal procedures
- 17.05 **D. Touboul** *FRANCE*
Intracorneal ring segments
- 17.25 **R. Bellucci** *ITALY*
LASIK: surgical technique
- 17.45 End of session



Voting via the
'ESCRS Paris 2019' app

08.30 – 16.00

YOUNG OPHTHALMOLOGISTS PROGRAMME YO

Starting Phaco

Including 'Learning from the Learners'
(Video cases submitted by young ophthalmologists)

South 2

Chairpersons: **O. Findl** *AUSTRIA*
S. Morselli *ITALY*
F. Ribeiro *PORTUGAL*
K. Vannas *FINLAND*

08.30 **P. Rosen** *UK*
Preparing for the first operation

08.45 **N. Hirschall** *AUSTRIA*
Biometry: what you need to know

09.00 – 10.30

Discussants: **R. Packard** *UK*,
N. Reus *THE NETHERLANDS*, **P. Rosen** *UK*

09.00 **B. Strong** *IRELAND*
Introduction to ESCRS iLearn

09.05 **R. Packard** *UK*
Incisions, OVD

Video Authors: *L. Eisenkopf* *GERMANY*,
L. Van Lancker *UK*

09.45 **N. Reus** *THE NETHERLANDS*
Capsulorhexis, hydrodissection

Video Authors: *M. Astete* *CHILE*,
Y. Azses *MEXICO*, *R. Bala* *ROMANIA*,
E. Muñoz *SPAIN*, *S. Toufeeq* *UK*

10.30 – 12.40

Discussants: **L. Benjamin** *UK*, **F. Ribeiro** *PORTUGAL*

10.30 **O. Findl** *AUSTRIA*
Phacoemulsification I: getting a crack

Video Authors: *M. Astete* *CHILE*, *E. Zouzoulas* *GREECE*

11.15 **L. Benjamin** *UK*
Phacoemulsification II

Video Authors: *K. Aggarwal* *UK*, *S. Ahuja* *INDIA*,
N. Ghandi *INDIA*, *R. Ismail* *UK*

11.55 **F. Ribeiro** *PORTUGAL*
Intraocular lenses: tricks

Video Authors: *R. Chaudhary* *INDIA*, *Z. Khatib* *INDIA*,
M. Pastore *ITALY*, *S. Porto Castro* *SPAIN*

12.40 Break

14.10 – 16.00

Discussants: **B. Malyugin** *RUSSIA*, **P. Rosen** *UK*

14.10 **M. Dickman** *THE NETHERLANDS*
Using EUREQUO for documentation and audit

14.25 **B. Malyugin** *RUSSIA*
Small pupil / floppy iris

Video Authors: *A. Behera* *INDIA*, *M. Prencipe* *ITALY*

15.10 **P. Rosen** *UK*
Managing the torn posterior capsule and the
dropped nucleus

Video Authors: *A. Fahem* *UK*, *P. Larco Jr.* *ECUADOR*,
R. Mukhija *INDIA*, *V. Singh* *INDIA*, *P. Subudhi* *INDIA*

16.00 End of session



Send your questions to the chairpersons
via the 'ESCRS Paris 2019' app

08.30 – 09.30

INSTRUCTIONAL COURSE

IC01* **Basic microsurgical suturing techniques for beginners (B)**



B. Frueh *SWITZERLAND*, **B. Bachmann** *GERMANY*,
A. Geerards *THE NETHERLANDS*
West 3

10.30 – 12.30

INSTRUCTIONAL COURSES

IC02* **Malpositioned lenses: optimal surgical management techniques (A)**

B. Malyugin *RUSSIA*, **M.J. Tassignon** *BELGIUM*,
E. Assia *ISRAEL*, **V. Pfeifer** *SLOVENIA*, **A. Crandall** *USA*,
S. Yamane *JAPAN*
South 3

IC03 **Conquering capsule complications: my best teaching videos (I)**

D. Chang *USA*, **R. Yeoh** *SINGAPORE*
South 4

IC04* **Explanting IOLs and refixating secondary IOLs (I)**

C. Mehta *INDIA*, **K. Mehta** *INDIA*, **S. Arshinoff** *CANADA*,
M. Piovella *ITALY*, **E. Assia** *ISRAEL*, **Z. Biro** *HUNGARY*
South 5

IC05* **LASIK: basic steps for safety and great results (I)**

A. Kanellopoulos *GREECE*, **G. Pamel** *USA*,
A. Sedky *EGYPT*, **A. Stojanovic** *NORWAY*,
J. Vryghem *BELGIUM*, **K. Stonecipher** *USA*
South 6

IC06 **Glaucoma surgery: modern perspectives (A)**

K. Barton *UK*, **N. Anand** *UK*, **S. Lim** *UK*,
T. Shaarawy *SWITZERLAND*
West 1

This course is organised by the European Glaucoma Society

IC07* **Corneal cross-linking therapy (I)**

K. Mikek *SLOVENIA*, **C. Koppen** *BELGIUM*,
D. O'Brart *UK*, **T. Seiler** *SWITZERLAND*
West 2

IC08 **How to avoid the mistakes we made in converting to DMEK (I)**

F. Badala *ITALY*, **S. Hannush** *USA*, **A. Saad** *FRANCE*,
D. Tan *SINGAPORE*, **M. Straiko** *USA*,
M. Dirisamer *GERMANY*
West 3

IC09 **Correction of astigmatism using Toric IOLs, LRIs and refractive laser surgery (B)**

N. Alpins *AUSTRALIA*, **G. Stamatelatos** *AUSTRALIA*,
M. Goggin *AUSTRALIA*, **D. Smadja** *ISRAEL*,
D. Pinero *SPAIN*
West 4

IC10* **Basic phacoemulsification (Part 1) (B)**



K. Tjia *THE NETHERLANDS*, **A. Chakrabarti** *INDIA*,
N. Reus *THE NETHERLANDS*
West 5

* Wetlab Pre-Requisite (A) Advanced (B) Basic (I) Intermediate
Handouts available at www.esccs.org

14.00 – 16.00

ESCRS/EUCORNEA SYMPOSIUM

Cataract Surgery in Eyes
with Diseased Corneas

Auditorium

Chairpersons: **M. Busin** ITALY (ESCRS)
J. Hjortdal DENMARK (EUCORNEA)

- 14.00 **B. Bachmann** GERMANY
Performing cataract surgery with an opaque cornea: overcoming poor visualization
- 14.15 **V. Scorcia** ITALY
Opting for cataract extraction alone, despite endothelial pathology
- 14.30 Discussion
- 14.40 **V. Borderie** FRANCE
DALK with cataract surgery: a sensible approach?
- 14.55 **F. Larkin** UK
DSAEK or DMEK: which to combine with cataract surgery in the diseased cornea?
- 15.10 Discussion
- 15.20 **B. Seitz** GERMANY
When PK is still preferable to endothelial keratoplasty
- 15.35 **T. Olsen** DENMARK
IOL calculations in the pathological cornea
- 15.50 Discussion
- 16.00 End of session

14.00 – 15.00

MODERATED POSTER SESSION

Refractive Surgery: Can Results
Improve Even Further?

Poster Village: Pod 2

Moderators: **V. Katsanevaki** GREECE
T. Kohnen GERMANY

- 14.00 **P. Paritekar, A. Ghosh, A. Sinha, Roy P. Khamar, P. Patel** INDIA
Is pellucid marginal degeneration (PMD) a variant of keratoconus (KC)? A structural, molecular and biomechanical study
- 14.08 **J. Fernández, M. Rodriguez-Vallejo, J. Garcia-Montesinos, J. Martinez, D. Pinero Llorens** SPAIN
Prevalence of central islands after small incision lenticule extraction (SMILE) and influence in the postoperative refraction
- 14.16 **D. Breyer, H. Kaymak, K. Klabe, P. Hagen, L. Beckers, F. Kretz, G. Auffarth** GERMANY
Five-year results of refractive lenticule extraction (ReLEx SMILE) compared to Femto-LASIK
- 14.24 **Z. Jihong, S. Li, W. Gu, Y. Gao, L. Wu, X. Guo** CHINA
Clinical outcomes of a large sample after small incision lenticule extraction and femtosecond laser-assisted in situ keratomileusis for myopia by generalised linear mixed models (GLMM) analysis
- 14.32 **M. Balgos, D. Pinero Llorens, J. Alío Del Barrio, M. Canto-Cerdan, J. Alió** SPAIN
A comparison of the cost effectiveness of SMILE, LASIK, and PRK for treating myopia in a private eye center in Spain
- 14.40 **E. Torres-Netto, S. Kling, A. Hammer, S. Arba Mosquera, T. Magnago, N. Hafezi, F. Hafezi** SWITZERLAND
Stromal bed smoothness after excimer laser surface ablation as a key element for the expression of inflammatory genes
- 14.48 **Y. Horigome, S. Yamane, M. Inamura, H. Arai** JAPAN
Novel technique of intrascleral IOL fixation with intraoperative adjustment of refraction
- 14.56 Discussion
- 15.00 End of session

SATURDAY 14 SEPTEMBER

14.30 – 15.30

INSTRUCTIONAL COURSES

IC11 Learning phaco chop: pearls and pitfalls (B)

YO **D. Chang** *USA*, K. Tjia *THE NETHERLANDS*
South 3

IC12 Dry eye: an ocular surface disease after cataract and refractive surgery (I)

NEW

S. Barabino *ITALY*, M. Rolando *ITALY*,
E. Messmer *GERMANY*
South 4

IC13 Management of anterior segment trauma: primary repair and management of sequelae (I)

NEW

S. Shah *INDIA*, R. Natrajan *INDIA*, K. Rao *INDIA*,
P. Narang *INDIA*
South 5

IC14 Demystifying biometry with the Barrett IOL calculator (I)

T. Wee *SINGAPORE*, G. Barrett *AUSTRALIA*,
R. Yeoh *SINGAPORE*
South 6

IC15 Microinvasive glaucoma surgery (I)

EBO

C. Sng *SINGAPORE*, N. Pfeiffer *GERMANY*,
K. Barton *UK*, J. Garcia-Feijoo *SPAIN*
West 1

IC16 Understanding ophthalmic viscosurgical devices (OVDs) to optimise their use in cataract surgery and complications (I)

YO

S. Arshinoff *CANADA*
West 2

IC17 Targeting millennials and grandmas through Facebook (I)

NEW

T. Evans *USA*
West 3

IC18 Endothelial keratoplasty: UTDSEK, PDEK and DMEK (I)

M. Tsatsos *GREECE*, N. Ziakas *GREECE*,
V. Liarakos *GREECE*, S. Jacob *INDIA*
West 4

IC19 Corneal tattoo (I)

NEW

A. Alsmman *EGYPT*, N. Abdelhaliem *EGYPT*,
A. Monir *EGYPT*
West 5

IC20 Your online marketing ROI: if you are confused, you are not alone! (I)

NEW

D. Butler *USA*
West 6

(A) Advanced (B) Basic (I) Intermediate

Handouts available at www.es CRS.org

15.00 – 16.30

PRESENTED POSTER SESSION**Cataract Surgery Special Cases****Poster Village: Pod 1**

Facilitators: **D. Jordanovova** CZECH REPUBLIC
M. Sajdikova CZECH REPUBLIC

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| <p>15.00 K. Kim, Y. Lee, H. Hwang, K. Hwang, B. Kim, S. Song SOUTH KOREA
Comparing the prediction of refractive error with different intraocular lens calculation formulas in cataract surgery with short axial length</p> <p>15.05 M. Bragheeth KUWAIT
Clinical evaluation of extended-range-of-vision IOL (ZXR00) implantation for refractive correction in cataract patients after radial keratotomy (RK)</p> <p>15.10 S. Srinivasan, G. Meehan UK
Visual and refractive outcomes following cataract surgery with a small-aperture intraocular lens in eyes with previous laser refractive surgery</p> <p>15.15 S. Virdee, R. Patel, D. Beddall, J. Devabattula, R. Nitiahpapand, S. Balal, A. Sharma UK
Scheimpflug imaging of posterior polar cataracts</p> <p>15.20 V. Camps, V. Mateo, R. Fikry Riad, E. Caravaca-Arens, F. Labib, M. Caballero, D. Pinero Llorens SPAIN
New-approach formula for IOL power calculation in keratoconus</p> <p>15.25 M. Muraine, G. Boutillier FRANCE
Phacoemulsification in a sitting position</p> <p>15.30 K. Kim, I. Jun, D. Kang, H. Lee, E. Kim, K. Seo, T. Kim SOUTH KOREA
Accuracy of the Barrett TK formula for intraocular lens power calculation in patients undergoing corneal refractive surgery</p> <p>15.35 A. Haq, S. Perera UK
Deviation from predicted postoperative refractive outcome (DPPOR): a desktop study investigating the association between patients' eyes in a real-world data set</p> <p>15.40 C. Soare, D. Patel, A. Ionides UK
Cataract surgery outcomes with toric intraocular lenses in eyes with previous radial keratotomy</p> <p>15.45 J. Langer, M. Mackert, M. Shajari, S. Priglinger, W. Mayer GERMANY
Predictability of refractive outcome of a small-aperture intraocular lens (IC-8, Acufocus) in lens exchange surgery with advanced irregular corneal astigmatism</p> <p>15.50 R. Khoramnia, H. Son, T. Yildirim, I. Baur, G. Auffarth GERMANY
Evaluation of a new concept of combined implantation of a small-aperture IOL and a segmental refractive bifocal intraocular lens</p> | <p>15.55 M. Kremeshkov, A. Ulyanov, E. Titarenko, A. Lizunov RUSSIA
Estimation of IOL optic power calculation refractive results with the use of different formulae in extremely long eyes: preliminary report</p> <p>16.00 B. Cochener-Lamard, N. Mazurel FRANCE
The audacity of an EDOF implantation after refractive surgery</p> <p>16.05 B. Lin, Y. Chuang, P. Lin TAIWAN
Comparison of visual outcome in nearly 1,000 eyes using rotational asymmetric refractive intraocular lens: high, medium and low add</p> <p>16.10 D. Jordanovova, D. Baráková, M. Šramka CZECH REPUBLIC
The incidence and results of laser enhancement after cataract and refractive surgery with trifocal lens implantation</p> <p>16.15 D. Grupchev, M. Radeva, T. Mihova, M. Stoeva, S. Nikolaeva, C. Grupcheva BULGARIA
Visual, perceptual and cosmetic comfort in patients with bilateral cataract and blindness: charity programme within the EU</p> <p>16.20 L. Mastropasqua, P. Mattei, L. Vecchiarino, E. D'ugo, E. Doronzo, G. Falconio, L. Toto ITALY
Assessment of IOL edges using scanning electron microscopy and atomic force microscopy: Clareon IOL vs AcrySof SN60WF IOL</p> <p>16.25 N. Lutsenko, O. Isakova, O. Rudycheva UKRAINE
Quality of vision after cataract surgery with mono- and multifocal lens implantation in patients with different types of refraction</p> <p>16.30 End of session</p> |
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SATURDAY 14 SEPTEMBER

15.00 – 16.30

PRESENTED POSTER SESSION

Infection & Imaging

Poster Village: Pod 2

Facilitators: K. Aggarwal *UK*
I. Yusuf *UK*

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| <p>15.00 A. Elhusseiny, Y. Ismail, R. Elsheikh, H. Elsheikh, A. Awadein <i>EGYPT</i>
Outcomes of ocular perforation following local anaesthesia</p> <p>15.05 J. Fajardo-Sanchez, E. Papamichael, N. Strouthidis, C. Pavesio, C. Wong, R. Angunawela <i>UK</i>
Treatment of chronic endophthalmitis with medical management in an eye with HumanOptics artificial iris/IOL implant following penetrating injury</p> <p>15.10 A. Elsañ, M. Romero, M. Camara, H. Dua <i>UK</i>
Distribution and growth pattern of <i>Pseudomonas aeruginosa</i> bacteria in the corneal stroma during corneal infection</p> <p>15.15 C. Garcia-Saenz, Y. Andres-Alba, G. Rodriguez-Caravaca, M. Leal-Gonzalez, F. Pessanha, C. Del Prado-Sanchez, A. Arias-Puente <i>SPAIN</i>
Endophthalmitis following cataract surgery in the cefuroxime era: changes in the bacterial spectrum</p> <p>15.20 M. Brízido, B. Lopes, P. Pereira, I. Galvão, A. Almeida <i>PORTUGAL</i>
Epidemiology of corneal ulcers: a 6-year retrospective study in a general hospital</p> <p>15.25 L. Modamio, A. Borrás, C. Rodríguez, J. Orduña, G. Ancochea, I. Del Barrio, N. Minguez <i>SPAIN</i>
Gonococcal keratoconjunctivitis in adults: case report</p> <p>15.30 S. Montolío-Marzo, E. Alfonso-Muñoz, J. Piá-Ludeña, J. Davo-Cabrera, M. Roig-Revert, C. Peris-Martínez <i>SPAIN</i>
Review of urgent penetrating keratoplasty for fungal keratitis outcome</p> <p>15.35 W. Zhang <i>UK</i>
Unilateral complete ophthalmoplegia: rare complication of herpes zoster ophthalmicus</p> <p>15.40 R. Singh, S. Yadav, N. Sharma, R. Mukhija, J. Urkude, A. Pujari <i>INDIA</i>
A simple smartphone-aided technique to quantify toric IOL alignment</p> <p>15.45 E. Kudryashova, V. Gavriluk, D. Maltsev, A. Kulikov, S. Churashov, T. Gren <i>RUSSIA</i>
Corneal epithelium mapping for keratoconus severity grading</p> <p>15.50 A. Ghanem <i>EGYPT</i>
Evaluation of anterior segment changes following laser peripheral iridotomy by Scheimpflug imaging</p> | <p>15.55 E. Sen, H. Yasar, E. Aydemir, H. Kiziltoprak <i>TURKEY</i>
Objective assessment of corneal clarity measurements in myopic, hypermetropic, and emmetropic children by Scheimpflug corneal topography</p> <p>16.00 E. Egorova, A. Biryukova, V. Dulidova <i>RUSSIA</i>
Optical coherence tomography assessment of the posterior optic buttonholing technology</p> <p>16.05 D. Pinero Llorens, A. Molina-Martin, R. Soto-Negro, P. Ruiz-Fortes, H. Fukumitsu <i>SPAIN</i>
Validation of ocular aberrometric and keratometric measurements provided by a new diagnostic integrated system in mild-to-moderate keratoconus</p> <p>16.10 X. Wang, J. Dong, Y. Zhang, S. Zhang, B. Sun <i>CHINA</i>
Agreement of corneal astigmatism measurements obtained with three devices</p> <p>16.15 H. Rashed, M. Abdel Rahman, A. Hegazy, M. Ismail <i>EGYPT</i>
Agreement between two meibomian gland imaging technologies</p> <p>16.20 X. Chen, K. Wei, Q. Tag <i>CHINA</i>
Distribution of ocular biometric parameters between Chinese urban and rural cataract patients in Shanghai</p> <p>16.25 Discussion</p> <p>16.30 End of session</p> |
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15.00 – 16.30

PRESENTED POSTER SESSION

Medical Cornea

Poster Village: Pod 3

Facilitators: W. Lubon *POLAND*
S. Wagner *POLAND*

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| <p>15.00 E. Holland, K. Nichols, G. Foulks, P. Gupta, K. Sall, R. Brazzell, A. Coultas <i>USA</i>
Safety and efficacy of KPI-121 0.25% for the treatment of signs and symptoms of dry eye disease in three multicentre randomised, double-masked, vehicle-controlled trials</p> <p>15.05 S. Sagerfors, B. Ejderdik-Lindblad, B. Söderquist <i>SWEDEN</i>
Infectious keratitis: cotton vs steel, do opposites agree? Comparison between two different instruments used for obtaining corneal material for direct inoculation in infectious keratitis</p> <p>15.10 M. Irkeç, O. Dikmetas, S. Kocabeyoglu <i>TURKEY</i>
Characterisation of corneal endothelial cells in keratoconus: a confocal microscopic study</p> <p>15.15 M. Anderson, A. James, A. Agrawal <i>UK</i>
Evaluation of contact lens education and prevalence of modifiable risk factors for contact lens-related complications in patients presenting with contact lens-related microbial keratitis</p> <p>15.20 V. Jhanji, K. Lam, W. Chow <i>USA</i>
Topical azithromycin and oral doxycycline in Meibomian gland dysfunction</p> <p>15.25 S. Srinivasan, J. Mehta, G. Peh Swee Lim <i>UK</i>
Corneal endothelial cell viability to impurities in trypan blue vital staining dye</p> <p>15.30 M. Zebbache, M. Kerboua <i>ALGERIA</i>
Thygeson's superficial punctate keratitis (TSPK)</p> <p>15.35 D. Delgado Arellano, E. Chavez, M. Garzon, O. Chacon Camacho, J. Zenteno <i>MEXICO</i>
Identification of the FOXC1 and PITX2 gene in Axenfeld-Rieger syndrome with family association in the Mexican population</p> <p>15.40 J. Shin, J. Lee, J. Kwon, C. Lee <i>SOUTH KOREA</i>
Efficacy of cyclosporine 0.05% on tear lipid layer and Meibomian gland after cataract operation</p> <p>15.45 H. Al Ghadeer, T. Almudhaiyan, M. Alarmy, R. Khandekar <i>SAUDI ARABIA</i>
Emergency visits after keratoplasty in a tertiary eye care hospital in Saudi Arabia</p> <p>15.50 N. Demirkaya, H. van Vliet, R. Lapid-Gortzak, C. Nieuwendaal, I. van der Meulen <i>THE NETHERLANDS</i>
Long-term follow-up of a child with a permanent scleral lens in his right eye after corneal perforation in the setting of toxic epidermal necrolysis (TEN)</p> <p>15.55 E. Samia-Aly, P. Mehta, A. Barua <i>UK</i>
Meibomian inversion syndrome and the cornea</p> | <p>16.00 R. Liegl, S. Neuhaan, D. Kurse, W. Mayer, S. Priglinger, M. Shajari <i>GERMANY</i>
Repeatability and reliability of components of the ABCD keratoconus staging system</p> <p>16.05 J. Fajardo-Sanchez, J. Kríman Nuñez, J. Dart <i>UK</i>
Severe bilateral phlyctenular keratitis secondary to pustular psoriasis, a rare variant of the psoriatic ocular inflammatory disease</p> <p>16.10 N. Duru, H. Altinkaynak <i>TURKEY</i>
The relationship between keratoconus and serum levels of zinc, magnesium, iron, copper, vitamin B12, and vitamin D</p> <p>16.15 D. Schmidl, M. Kallab, N. Hommer, S. Szegedi, R. Werkmeister, L. Schmetterer, G. Garhöfer <i>AUSTRIA</i>
Topical preservative-free hydrocortisone 0.335% improves signs and symptoms in patients with chronic dry eye disease and reduces ocular surface inflammation</p> <p>16.20 C. Malhotra, H. Yadav, A. Jain, A. Gupta, J. Ram <i>INDIA</i>
Topical rebamipide as 'add-on' therapy for vernal keratoconjunctivitis</p> <p>16.25 V. Lázaro, J. Botella García, D. Aragón Roca, M. De la Paz <i>SPAIN</i>
Triple A syndrome with ophthalmic manifestations</p> <p>16.30 End of session</p> |
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SATURDAY 14 SEPTEMBER

16.00 – 18.00

VIDEO SYMPOSIUM ON CHALLENGING CASES

A Surgical Feast Fit for a King

Auditorium

Chairperson: **R. Osher** *USA*

Preoperative Challenges

M. Franco *SPAIN*

The mentally retarded patient

D. Megur *INDIA*

Calcified and fibrotic plaque

M. Izak *SLOVAKIA*

Scary myopia

K. Doctor *INDIA*

Nanophthalmos

D. Pal *INDIA*

Mature and loose

S. Canabrava *BRAZIL*

Spherophakia

Y. Mostafa *EGYPT*

Long zonules

S. Saha *INDIA*

Morgagnian

J. Febbraro *FRANCE*

Posterior polar

A. Abolhasani *IRAN*

Traumatic aphakia/iris loss

Intraoperative Complications

M. Rajan *INDIA*

Crazy detachments

B. Megur *INDIA*

Descemet's nightmare

E. Ferreira Jr *BRAZIL*

Anterior capsular breach

N. Ray *INDIA*

Sculpting through the capsule

S. Goel *INDIA*

Cannula missile

A. Balamoun *EGYPT*

Dense plaque

S. Jacob *INDIA*

IOL conundrum

A. Mohanta *INDIA*

CTR trouble

S. Bhattacharjee *INDIA*

Die another day

Postoperative Anxiety

L. Daniel Ponniah *INDIA*

Pigment storm

M. Domingues *PORTUGAL*

Iridodialysis

V. Kenia *INDIA*

Opaque IOL

A. Heroor *INDIA*

Backwards

E. Sykakis *GREECE*

Dislocated

V. de Rojas *SPAIN*

Subluxed

R. Osher *USA*

Corneal abscess

16.00 – 18.00

INSTRUCTIONAL COURSES

IC21 Posterior capsule rupture: mastering vitrectomy and IOL implantation, a video-based course (I)

A. Agarwal *INDIA*, A. Agarwal *INDIA*, D. Chang *USA*,
B. Little *UK*
South 3

IC22 Big bubble, no trouble: a step-by-step approach to successful deep anterior lamellar keratoplasty with the big bubble technique (I)

M. Eldanassoury *SAUDI ARABIA*, S. Daya *UK*,
G. Gerten *GERMANY*
South 4

IC23 Paediatric penetrating keratoplasty: to do or not to do? (I)

M. Fernandes *INDIA*, A. Borthakur *INDIA*,
J. Sengupta *INDIA*, N. Gangopadhyay *INDIA*,
K. Nischal *USA*
South 5

IC24 New concepts and research on keratoconus (I)

A. Barbara *ISRAEL*, C. Roberts *USA*, M. Belin *USA*,
R. Ambrosio Jr *BRAZIL*, D. Gatinel *FRANCE*,
A. Marcovich *ISRAEL*
South 6

IC25* Boston type 1 keratoprosthesis: from indications to innovations (I)

M. Cortina *USA*, J. de la Cruz *USA*,
S. Hannush *USA*, E. Arrondo *SPAIN*, C. Mateo *SPAIN*,
M. Harissi-Dagher *CANADA*
West 1

IC26* LASIK: update with surgical tips in primary and secondary cases – basic comparison with surface ablation technique (B)

D. Elies Amat *SPAIN*, J. Gaytan-Melicoff *MEXICO*,
A. Marinho *PORTUGAL*, J. Aramberri *SPAIN*,
G. Rocha *CANADA*
West 2

IC27* PRK, LASEK and Epi-LASIK (B)

D. Epstein *SWITZERLAND*, I. Pallikaris *GREECE*
West 3

IC28* Minimally invasive glaucoma surgery: time to shine (B)

K. Mansouri *SWITZERLAND*, Z. Khoueir *LEBANON*,
B. Pajic *SWITZERLAND*, F. Ruefer *GERMANY*,
S. Dorairaj *USA*, A. Tatham *UK*
West 4

IC29* Basic phacoemulsification (Part 2) (B)

YO N. Reus *THE NETHERLANDS*, K. Tjia *THE NETHERLANDS*,
A. Chakrabarti *INDIA*
West 5

IC30* Primary posterior capsulorhexis: indications and surgical techniques (A)

M.J. Tassignon *BELGIUM*, T. Neuhann *GERMANY*,
R. Menapace *AUSTRIA*, R. Stegmann *SOUTH AFRICA*,
C. Billotte *FRANCE*
West 6

* Wetlab Pre-Requisite (A) Advanced (B) Basic (I) Intermediate
Handouts available at www.es CRS.org

Binkhorst Medal Lecture 2019

Sunday 15 September

10.00 – 10.50

Auditorium

Ehud Assia *ISRAEL*

*Thinking Outside the Box:
New Perspective on Current Surgical Technologies*



Ehud Assia graduated from the Sackler School of Medicine at Tel Aviv University in 1980 (Magna Cum Laude) and has a Masters degree in Ophthalmology (Summa Cum Laude, 1989). He completed his residency in ophthalmology at the Goldschleger Eye Institute at the Sheba Medical Center, Tel-Hashomer.

He completed a 2 year fellowship at the Center for Intraocular Lens Research (David J. Apple, MD) at the Medical University of South Carolina, Charleston, SC, USA. Dr Assia was Director of the Department of Ophthalmology at the Meir Medical Center, Kfar-Saba between 1994-2018. He serves there now as the Director of the Center for Applied Eye Research.

Dr Assia is Full Professor at Tel-Aviv University and was Director of the Department of Ophthalmology of the Sackler School of Medicine between 1998-2002. His main interest is lens pathophysiology, anterior segment surgery and intraocular implants. He has published over 150 peer-reviewed papers in the leading professional journals as well as over 50 publications and 25 chapters in books. He is a co-author of a book on "Premium and specialized intraocular lenses" (Bantham Publishers Co. 2014). Dr Assia has developed several original patented devices and instruments.

He was the Chief Editor of a local journal in ophthalmology ("Israeli Journal of Eye Update") for 23 years. He is a member of the Cataract Clinical Committee of the ASCRS. Dr Assia is also the Medical Director of the Ein Tal Eye Center, the biggest private eye center in Israel.



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SUNDAY

15 September

08.00 – 17.45

EBO Accredited see p. 164

WORKSHOP ON VISUAL OPTICS

South 1

Chairpersons: **I. Pallikaris** *GREECE*
M.J. Tassignon *BELGIUM*

Part 1 Visual Optics

Moderators: **I. Pallikaris** *GREECE*
M.J. Tassignon *BELGIUM*

- 08.00 Welcome
- 08.05 **F. Van de Velde** *BELGIUM*
Light propagation in the eye
Discussion
- 08.30 **S. Marcos** *SPAIN*
Aberrations of the optical system
Discussion
- 09.00 **A. Glasser** *USA*
Optics of crystalline lens and accommodative response
Discussion
- 09.25 **J. Rozema** *BELGIUM*
Epidemiology of the optical parameters of the eye
Discussion
- 09.50 **M.J. Tassignon** *BELGIUM*
IOL optics
Discussion
- 10.15 **T. Olsen** *DENMARK*
IOL power calculation
Discussion
- 10.40 **Break for Main Symposium in Auditorium: Surgeons Under Stress**
- 13.00 Lunch break

Part 2 Visual Behaviour (Visual Function)

Moderators: **R. Applegate** *USA*
P. Artal *SPAIN*

- 13.30 **R. Applegate** *USA*
Retinal image quality
Discussion
- 13.55 **I. Pallikaris** *GREECE*
Presbyoptics
Discussion
- 14.20 **T. Van den Berg** *THE NETHERLANDS*
Straylight: importance of different domains of the point-spread function
Discussion
- 14.45 **S. Panagopoulou** *GREECE*
State of the art assessment of visual acuity and contrast sensitivity
Discussion
- 15.15 **P. Artal** *SPAIN*
Visual function assessment using adaptive optics
Discussion
- 15.40 **H. Ginis** *GREECE*
Modelling visual function
Discussion

Part 3 Imaging the Human Eye

Moderators: **D. Gatinel** *FRANCE*
A. Pallikaris *GREECE*

- 16.05 **A. Pallikaris** *GREECE*
Confocal microscopy, from research to clinical practice
Discussion
- 16.30 **C. Roberts** *USA*
Measuring the biomechanics of the cornea
Discussion
- 16.55 **B. Malyugin** *RUSSIA*
Clinical application of OCT imaging of the anterior segment of the eye
Discussion
- 17.20 **D. Gatinel** *FRANCE*
Corneal topography challenges
Discussion
- 17.45 End of session

08.00 – 10.00

FREE PAPER SESSION YO

Small Lenticule Extraction I

Free Paper Forum: Podium I

Chairperson: S. Morselli ITALY

Co-Chairperson: C. Albou-Ganem FRANCE

- 08.00 **A. Hamed, M. Heikal, T. Soliman, A. Daifalla, K. Said-Ahmed** EGYPT
SMILE intraoperative complications: incidence and management
- 08.06 **D. Donate, R. Thaëron** FRANCE
SMILE: assessment of early visual and optical quality recovery according to the residual stromal bed
- 08.12 **M. Soyler, H. Sabur, M. Onder, M. Un** TURKEY
Preliminary results of small incision lenticule extraction for myopic astigmatism
- 08.18 **R. Arra, S. Ganesh, S. Brar** INDIA
Comparison of outcomes following SMILE in patients with small and large angle kappa
- 08.24 **J. Chong, M. Nutkiewicz, M. Nejad, D. Hamilton** USA
Comparison of day one postoperative uncorrected visual acuities for low energy vs high energy SMILE for myopic astigmatism
- 08.30 **Z. Jihong, S. Li, W. Gu, Y. Gao, L. Wu, X. Guo** CHINA
Survival analysis of myopic regression after small incision lenticule extraction and femtosecond laser-assisted laser in situ keratomileusis for low-to-moderate myopia
- 08.36 **L. Izquierdo Jr, M. Henriquez, D. Sossa** PERU
New technique for lenticular corneal extraction using low energy femtosecond laser
- 08.42 Discussion
- 08.54 **M. Li, X. Zhou, M. Li, K. Zheng, J. Zhao, H. Miao, M. Tian** CHINA
Five year results of microdistortions in Bowman's layer and intraocular scattering after small incision lenticule extraction for myopia
- 09.00 **J. Siedlecki, N. Luft, L. Keidel, S. Priglinger, T. Archer, D. Reinstein, M. Dirisamer** GERMANY
Enhancement of lenticule thickness to improve outcomes of SMILE in low myopia
- 09.06 **S. Ganesh, S. Brar** INDIA
Comparison of clinical outcomes and visual quality using medium vs small cone in patients undergoing ReLEEx SMILE with large corneal diameters
- 09.12 **S. Taneri, S. Kießler, A. Rost, T. Schultz, H. Dick** GERMANY
SMILE for the correction of high myopia: outcomes and epithelial remodelling
- 09.18 **L. Beckers, D. Breyer, K. Klabe, H. Kaymak, T. Ax, F. Kretz, G. Auffarth** GERMANY
Impact of percent tissue altered and other surgical and corneal parameters on regression after refractive lenticule extraction (ReLEEx) SMILE
- 09.24 **S. Pereira, S. Ganesh, S. Brar** INDIA
A comparison of safety and clinical outcomes of 100µ vs 160µ cap in patients undergoing ReLEEx small incision lenticule extraction (SMILE)
- 09.30 **A. Kanellopoulos, F. Xhani** GREECE
Myopic LASIK and SMILE (L&S) retreatment with topography-guided PRK (tPRK): long-term refractive and corneal imaging evaluation
- 09.36 **A. Aguayo, C. Kranemann** CANADA
Small incision lenticule extraction (SMILE) with micromonovision vs LASIK micromonovision
- 09.42 **X. Zhou, D. Fu, M. Li** CHINA
Intraocular pressure changes and corneal biomechanics after hyperopic small incision lenticule extraction
- 09.48 Discussion
- 10.00 End of session

08.00 – 10.00

FREE PAPER SESSION

Keratoconus & Secondary Ectasia

Free Paper Forum: Podium 2

Chairperson: J. Vryghem *BELGIUM*

Co-Chairperson: P. Fournie *FRANCE*

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| <p>08.00 W. Ali Abousamra, E. Azmy, A. Elkannishy <i>EGYPT</i>
Objective and subjective outcome of clear lensectomy with toric IOL implantation after corneal collagen cross-linking in selected cases of keratoconus</p> <p>08.06 C. Trindade, B. Trindade, F. Trindade <i>BRAZIL</i>
A new approach to keratoconus: refractive lens exchange with piggyback intraocular pinhole</p> <p>08.12 A. Mounir, M. Elghobaier, E. Mostafa <i>EGYPT</i>
Risk factors and clinical outcomes of femtosecond laser implanted keraring extrusion in keratoconic patients</p> <p>08.18 E. Jarade, M. Issa, W. Chanbour <i>LEBANON</i>
The bio-ring: a new solution for stromal melting after ICRS implantation</p> <p>08.24 N. Balakrishnan, R. Shetty, A. Sinha Roy, P. Khamar, V. Laalgudi <i>INDIA</i>
Customised topography-guided PTK and CXL following intrastromal ring segments in decentred cones</p> <p>08.30 V. Mittal, P. Narang, N. Sahdev, R. Mittal <i>INDIA</i>
Femtosecond-assisted Bowman's stromal inlay using IOL injector as an option in keratoconus management</p> <p>08.36 D. Johnson, A. Ralhan, J. Leroux <i>CANADA</i>
Design and validation of a device to detect and quantify eye-rubbing behaviour</p> <p>08.42 M. Ghabra, H. Ghabra <i>UK</i>
The effect of a novel radial corneal inlay implant (corneal arches) in keratoconic eyes</p> <p>08.48 Discussion</p> <p>08.57 A. Kachanov, S. Nikulin, T. Churakov, S. Bauer, V. Kornikov, B. Zimin <i>RUSSIA</i>
Corneal ectasia after 10,000 ReLEx SMILE operations</p> <p>09.03 C. Chan, A. Saad, D. Gatinel <i>SINGAPORE</i>
Ectasia after laser in situ keratomileusis: lessons learnt from a multicentre case control study</p> <p>09.09 M. Fakhry Khattab, S. Eissa, K. Abdel-Aziz, T. Einaggar, O. Said, A. Abdelatif, M. Anis <i>EGYPT</i>
Post-laser vision correction (LVC) ectasia: a study enrolled by the Egyptian Society of Keratoconus & Corneal Transplants</p> | <p>09.15 R. Chandregowda Rajalakshmi, S. Ganesh, S. Brar <i>INDIA</i>
Incidence of corneal ectasia in patients undergoing ReLEx SMILE and ReLEx SMILE Xtra in a high volume tertiary refractive surgery centre</p> <p>09.21 E. Torres-Netto, B. Spuru, S. Kling, F. Gilardoni, A. Lazaridis, W. Sekundo, F. Hafezi <i>SWITZERLAND</i>
Biomechanical effect of corneal cross-linking (CXL) in fellow human corneas following SMILE or PRK in an ex vivo model for postoperative ectasia</p> <p>09.27 P. Ahuja, R. Shetty, A. Ghosh, S. Sethu, P. Khamar <i>INDIA</i>
RituaIs to prevent development of visually significant corneal haze after photorefractive keratectomy (PRK) or cross-linking (KXL)</p> <p>09.33 J. Tan, D. Lin, S. Holland, A. Covello, S. Arba Mosquera, V. Shwetabh, M. Al Obthani <i>CANADA</i>
Topography-guided photorefractive keratectomy for correction of irregular astigmatism following penetrating keratoplasty</p> <p>09.39 A. Behndig <i>SWEDEN</i>
Phototherapeutic intrastromal corneal collagen cross-linking (PiXL) for treatment of low-grade myopia: comparison of two different protocols with 12 months' follow-up</p> <p>09.45 C. Kranemann <i>CANADA</i>
Patterned cross-linking (PiXL) for refractive errors with epithelium-on (EPI ON) or epithelium off (EPI OFF) or corneal pocket approach</p> <p>09.51 Discussion</p> <p>10.00 End of session</p> |
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08.00 – 10.00

FREE PAPER SESSION

Toric IOLs & Lens Power Calculations

Free Paper Forum: Podium 3

Chairperson: O. Findl *AUSTRIA*Co-Chairperson: T. Amzallag *FRANCE*

- 08.00 **Q. Kaba, E. Tam, R. Maini, S. Somani, H. Chiu** *UK*
Comparison of toric intraocular lens prediction using Pentacam, OPD, and IOLMaster measurements
- 08.06 **H. Yoon, M. Kim, H. Kim, E. Kim** *SOUTH KOREA*
Toric intraocular lens implantation in cataract patients with corneal axis deviation
- 08.12 **S. Shukhaev, A. Matveeva, A. Ulitina** *RUSSIA*
Manual marking to assess the rotational stability of toric IOLs
- 08.18 **S. Sheen-Ophir, O. Reitblat Lerman, A. Levy, E. Assia, G. Kleinmann** *AUSTRALIA*
Deviation from the planned axis of three toric intraocular lenses
- 08.24 **D. Lubeck, S. Modi** *USA*
Clinical outcomes after aphakic vs aphakic/pseudophakic intraoperative aberrometry in cataract surgery with toric IOL implantation
- 08.30 Discussion
- 08.37 **R. Chaudhary** *INDIA*
Toric axis-marking with smartphone apps and comparing accuracy with manual and digital axis markers
- 08.43 **A. Jain, S. Narain, T. Goel** *INDIA*
Restoring vision in patient of corneal ectasias with very high cylinder post cross-linking
- 08.49 **E. Otero** *COLOMBIA*
Precizon toric intraocular lenses for the correction of high post-keratoplasty astigmatism in cataract patients
- 08.55 **J. Kim, H. Chung, J. Lee, J. Lee, H. Lee, S. Park, H. Tchah** *SOUTH KOREA*
Astigmatism correction in cataract surgery in moderate astigmatism patients: comparison of toric IOL and femto-assisted AI
- 09.01 Discussion
- 09.08 **X. Chen, Y. Lan, K. Wei, X. Chen, F. Qian** *CHINA*
Agreement of corneal power measurement with seven different devices
- 09.14 **M. Lawless, C. Hodge, G. Sutton, T. Roberts, C. Chan** *AUSTRALIA*
Comparative efficacy of Barrett True-K IOL power calculation with and without measured posterior corneal astigmatism
- 09.20 **R. Tavares, G. Ferreira, E. Ghanem, D. Borges, L. Silveira, R. Ghanem** *BRAZIL*
Accuracy of the Haigis and Barrett True-K formulae for intraocular lens power prediction after radial keratotomy
- 09.26 **L. Tutchenko, S. Patel, O. Voytsekhivskyy, M. Skovron, O. Horak** *UKRAINE*
The relationship between changes in corneal posterior surface astigmatism and unexpected changes in the residual astigmatism, determined by objective and subjective refraction, after routine cataract surgery
- 09.32 **D. Schartmuller, L. Schwarzenbacher, C. Leydolt, R. Menapace** *AUSTRIA*
Change in pseudophakic effective lens position of an hydrophobic acrylic intraocular lens within one month postoperatively
- 09.38 **J. Bernardes, M. Raimundo, A. Rosa, M. Quadrado, J. Neto-Murta** *PORTUGAL*
Comparing intraoperative wavefront aberrometry and established formulas for IOL power calculation after excimer laser vision correction
- 09.44 Discussion
- 10.00 End of session

08.00 – 10.00

FREE PAPER SESSION

Ocular Infections & Other Topics

Free Paper Forum: Podium 4

Chairperson: **F. Kretz** *GERMANY*

Co-Chairperson: **N. Visser** *THE NETHERLANDS*

- | | |
|---|---|
| <p>08.00 E. Abdullayev, K. Moench, S. Hasan, A. Kurz <i>USA</i>
Efficiency of the narrow-band ultra violet (UV) light in anti-fungal and anti-superbug decontamination of donor corneas</p> <p>08.06 P. Rosetta, F. Camesasca, E. Legrottaglie, A. Borgia, P. Vinciguerra <i>ITALY</i>
Window absorption corneal cross-linking in the treatment of severe corneal ulcers: long-term follow-up</p> <p>08.12 C. Cho, S. Lee <i>SOUTH KOREA</i>
Comparative analysis of clinical aspects and treatment outcomes between <i>Stenotrophomonas maltophilia</i> and <i>Pseudomonas aeruginosa</i> keratitis</p> <p>08.18 Discussion</p> <p>08.24 S. Edakhlon, R. George, M. Prabhusankar <i>INDIA</i>
In vitro activity of antibiotics against conjunctival flora</p> <p>08.30 E. Alfonso Muñoz, J. Davó-Cabrera, J. Piá-Ludeña, S. Montolio-Marzo, M. Hernández-Díaz, E. Fernández, C. Peris Martínez <i>SPAIN</i>
Long-term results in therapeutic keratoplasty for treating infectious keratitis: review of 24 cases</p> <p>08.36 H. Mohammad Rabei, M. Javadi, S. Hosseini, N. Behnaz, D. Roshandel, S. Feizi, Z. Ghadiani <i>IRAN</i>
Prevalence of Demodex infestation in Iranian patients with chronic blepharitis vs normal population</p> <p>08.42 M. Penades-Fons, M. Ferrer-García, E. Alfonso, E. García-Martínez, Á. Mira, C. Peris-Martínez <i>SPAIN</i>
Different ocular niches harbour distinct microbiota communities</p> <p>08.48 Discussion</p> <p>08.54 S. Saha, J. Sengupta, A. Khetan <i>INDIA</i>
A changing pattern in the last 10 years of in vitro antimicrobial susceptibility of bacterial keratitis isolates, endophthalmitis and normal ocular commensals from Eastern India</p> <p>09.00 D. Joshi, S. Joshi, S. Marathe <i>INDIA</i>
Cataract surgery with systemic co-morbidity: is perioperative management necessary?</p> <p>09.06 A. Cummings, E. Brennan, S. Naughton, A. Coen <i>IRELAND</i>
Comparing the Argos optical biometer to the Lenstar optical biometer, Pentacam and topolyzer</p> | <p>09.12 A. Galeone, F. D'Oria, P. Puzo, N. Cardascia, G. Alessio <i>ITALY</i>
Analysis of ocular biometric characteristics in cataract surgery candidates from South Italy</p> <p>09.18 Discussion</p> <p>09.24 B. Lee, D. Hunter, D. Robaei, C. Samarawickrama <i>AUSTRALIA</i>
Ocular trauma in a major Australian tertiary centre: a 10-year review of clinical outcomes and economic costs</p> <p>09.30 K. Irsch, R. Bocheux, B. Rivière, P. Pernot, V. Borderie, K. Plamann <i>FRANCE</i>
Novel objective approach to retrieve quantitative measures of corneal transparency from depth-resolved images</p> <p>09.36 R. Wisse, M. Muijzer, F. Cassano, D. Godefrooij, Y. Prevoo, N. Soeters <i>THE NETHERLANDS</i>
Clinical validation of the new Eassee online test to assess visual acuity and refractive errors: the Manifest vs Online Refractive Evaluation (MORE trial)</p> <p>09.42 Y. Weill, J. Hanhart, D. Zadok, D. Smadja, E. Gelman, A. Abulafia <i>ISRAEL</i>
Swept-source OCT-based biometry for preoperative detection of macular pathology prior to cataract surgery</p> <p>09.48 A. Saad, G. Debellemannièr, D. Gatinel <i>FRANCE</i>
Screening for ectasia risk using a new classification (Gatinel-Malet) for higher-order aberrations</p> <p>09.54 Discussion</p> <p>10.00 End of session</p> |
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08.00 – 10.00

INSTRUCTIONAL COURSES

- IC31** **The management of complications encountered during cataract surgery (I)**
R. Osher *USA*, G. Barrett *AUSTRALIA*
South 2
- IC32** **The basics of corneal topography: finally understanding what you are seeing (B)**
YO
EBO
C. Roberts *USA*, S. Klyce *USA*, D. Koch *USA*,
D. Epstein *SWITZERLAND*, B. Ventura *BRAZIL*
South 3
- IC33** **Ocular trauma assessment and management (I)**
EBO
T. Rudolph *SWEDEN*, C. Jansén *SWEDEN*,
K. Svedberg *SWEDEN*
South 4
- IC34** **Therapeutic corneal refractive surgery: achieving excellent outcomes in complications after LASIK or PRK (A)**
D. Reinstein *UK*, T. Archer *UK*, G. Carp *UK*
South 6
- IC35*** **Manual small incision cataract surgery (MSICS): a video-based primer (B)**
A. Chakrabarti *INDIA*, S. Jacob *INDIA*, S. Kodur *INDIA*,
D. Megur *INDIA*, A. Agarwal *INDIA*, R. Solanki *INDIA*
West 1
- IC36*** **Overview of phakic IOLs (I)**
A. Marinho *PORTUGAL*, F. Carones *ITALY*,
M. Eldanassoury *SAUDI ARABIA*,
P. Stodulka *CZECH REPUBLIC*
West 2
- IC39** **Corneal surgery assisted by femtosecond laser (I)**
J. Alió *SPAIN*, W. Sekundo *GERMANY*, G. Baikoff *FRANCE*,
T. Neuhann *GERMANY*, G. Carp *UK*
West 4
- IC40** **Limbal stem cell deficiency (LSCD): etiology, diagnosis and management (I)**
NEW
E. Holland *USA*, M. Nordlund *USA*, C. Chan *CANADA*,
E. Sarnicola *ITALY*, A. Cheung *USA*, M. Darvish *CANADA*,
L. Sepsakos *USA*, K. Shah *USA*
West 5
- IC41** **Curbside consult for keratoconus: a case-based approach (I)**
R. Shetty *INDIA*, R. Ambrosio Jr *BRAZIL*,
R. Nuijts *THE NETHERLANDS*, N. Pahuja *INDIA*,
P. Khamar *INDIA*, P. Patel *INDIA*
West 6
- IC42** **IOL power calculation: update by the IOL Power Club (A)**
G. Savini *ITALY*, J. Aramberri *SPAIN*, H. Fam *SINGAPORE*,
T. Ferreira *PORTUGAL*, T. Olsen *DENMARK*,
F. Ribeiro *PORTUGAL*
West 7

08.00 – 09.45

INSTRUCTIONAL COURSE

- IC37*** **Comprehensive keratoplasty techniques (Part 1) (B)**
EBO
J. Güell *SPAIN*, S. Hannush *USA*, R. Bellucci *ITALY*,
R. Mohan *INDIA*, S. Srinivasan *UK*
West 3

* Wetlab Pre-Requisite (A) Advanced (B) Basic (I) Intermediate
Handouts available at www.escrs.org

08.30 – 18.00

PRACTICE MANAGEMENT MASTERCLASS

A 'Patient Experience' Summit: Building A Patient-Centric Ophthalmic Practice That Maximises Profits

West 8

Moderator: K. Morrill *FRANCE*

A. Carones *ITALY*

M. Malley *USA*

This highly interactive and didactic workshop-based course will challenge attending surgeons to critically assess their effectiveness in various aspects of their clinics including:

- Physician time management
- Practice profit margins
- Patient education processes
- Premium services planning
- Staff conversion training
- Practice culture commitment
- Exit-strategy evaluation
- Staff incentive strategies
- Maximising surgeon production
- Costs controls

09.30 – 11.00

PRESENTED POSTER SESSION

Combined Cataract Surgery & Cataract Surgery Complications

Poster Village: Pod 1

Facilitators: K. Aggarwal *UK*

I. Yusuf *UK*

- 09.30 **T. Sokolovskaya, D. Magaramov, V. Yashina, V. Teplovodskaya** *RUSSIA*
Combined phacoemulsification and YAG-laser activation of trabecula in primary open-angle glaucoma and co-existing cataract
- 09.35 **J. Garcia-Feijoo, M. Teus, H. Falvey, S. Aceituno, M. Appierto** *SPAIN*
Cost-effectiveness analysis of iStent inject® implantation for the treatment of open-angle glaucoma in Spain
- 09.40 **J. Sanchez-Pina, C. Sanchez, B. Blanco Torcal, B. Puerto Hernandez, C. Lopez Caballero** *SPAIN*
Early visual recovery comparison after combined phaco-iStent inject, phaco-non-penetrating deep sclerectomy, phaco-XEN implant and phaco-ExPRESS implant: a pilot study
- 09.45 **B. Colizzi, T. Yap, E. Kaur, F. Ahmed** *ITALY*
Refractive outcomes of combined phacoemulsification-iStent procedures
- 09.50 **L. Burk, J. Gilmore, L. Gilmore** *USA*
Dual Blade goniotomy and direct viscodilation of the collector channels combined with cataract surgery in eyes with previous laser peripheral iridotomies
- 09.55 **F. Hengerer** *GERMANY*
Cataract surgery combined with pars plana vitrectomy in cases of retinal diseases using a femtosecond laser: is there an advantage?
- 10.00 **K. Morii, F. Taketani, S. Miura, T. Otsuka, H. Kubotani, A. Akashi, R. Fujiwara** *JAPAN*
Quality of image of grating target during vitrectomy in model eyes implanted with multifocal intraocular lenses
- 10.05 **F. Taketani, K. Morii, T. Taketani** *JAPAN*
Quality of image of grating target with a wide-angled viewing system in model eyes implanted with multifocal intraocular lenses
- 10.10 **Z. Biro** *HUNGARY*
Malyugin Ring used 'open-sky' during combined surgery
- 10.15 **I. Pivic-Kovacevic, S. Matić, J. Barać, M. Jelić Vuković** *CROATIA*
Early postoperative intraocular pressure elevation after uncomplicated phacoemulsification cataract surgery

09.30 – 11.00

PRESENTED POSTER SESSION

Surgical Cornea

Poster Village: Pod 2

Facilitators: C. Pedrosa *PORTUGAL*
J. Alió del Barrio *SPAIN*

- 10.20 **N. Dar, S. Pillar, A. Friehmann, A. Belkin, S. Ofir** *ISRAEL*
Endophthalmitis after intravitreal injections vs cataract surgery: a 15-year cohort
- 10.25 **S. Goto, T. Kawaji, T. Sato** *JAPAN*
Prevalence of dry eye after cataract surgery: the effect of topical rebamipide treatment
- 10.30 **S. Naylor, R. Darbyshire** *UK*
Retained anterior chamber lens fragments after cataract surgery: what are the risk factors?
- 10.35 **C. Grupcheva, D. Grupchev, M. Radeva, M. Boyadzhieva, T. Mihova** *BULGARIA*
Cataract surgery in eyes with poor endothelium
- 10.40 **G. Lesieur** *FRANCE*
IOL design and material influence in Nd:YAG laser rates for a large series of MICS IOL implantations
- 10.45 **J. Erie, M. Mahr, M. Simpson** *USA*
A modified intraocular lens design to reduce negative dysphotopsia
- 10.50 **L. Werner, K. Das, S. Collins** *USA*
Evaluation of intraocular lens glare or positive dysphotopsia type photic phenomena in both large and small pupils in a schematic model eye
- 10.55 **H. Yoon, E. Kim, N. Kang** *SOUTH KOREA*
Difference in effective lens position between microincision and small incision
- 11.00 End of session

- 09.30 **S. Wy, Y. Kim, J. Jeoung, M. Kim** *KOREA*
Comparative analysis of the graft survival and endothelial cell density in Ahmed glaucoma valve implantation vs maximal tolerable medical therapy in penetrating keratoplasty with glaucoma
- 09.35 **K. Mena-Guevara, A. Rodriguez, L. Bataille, J. Neto-Murta, R. Barraquer, J. Alió** *SPAIN*
IBERIA Biobank: results of intraocular biomedical devices explanted in Spain and Portugal
- 09.40 **C. Sitbon, E. Gabison, S. Hardy, I. Cochereau** *FRANCE*
Pachymetric predictability factor for early graft detachment in primary Descemet's membrane endothelial keratoplasty
- 09.45 **A. Jiravarnsirikul, P. Tanthuvanit, C. Chirapapaian, P. Ekpo, M. Uprasertkul, P. Ngowyutagon, W. Pinitpuwadol** *THAILAND*
Phenotypic characterization in long-term follow-up of patients with severe ocular surface diseases after autologous cultivated oral mucosal epithelial transplantation
- 09.50 **Y. Nahum, A. Achiron, I. Bahar, E. Livny** *ISRAEL*
Punching DMEK graft on a contact lens vs punching the graft on the donor stroma: preserving more endothelial cells at the graft margin
- 09.55 **A. Lazaridis, E. Giallourous, W. Sekundo, F. Schoeder, K. Droutsas** *GERMANY*
Spatial analysis of corneal densitometry, thickness profile and volume distribution after uneventful Descemet's membrane endothelial keratoplasty
- 10.00 **R. Karadag, K. Hammersmith, P. Nagra, C. Rapuano** *TURKEY*
Anterior chamber characteristics and corneal densitometry after penetrating keratoplasty in patients with keratoconus
- 10.05 **A. Kate, P. Vaddavalli, S. Aswanthi** *INDIA*
Descemet's membrane endothelial keratoplasty for interface fluid syndrome post LASIK
- 10.10 **J. Alió del Barrio, M. Bhogal, A. Montesl, V. Ho** *SPAIN*
Descemet's membrane endothelial keratoplasty under failed penetrating keratoplasty without host descemetorhexis for the management of secondary graft failure
- 10.15 **C. Epanthier** *FRANCE*
DMEK surgery with glasses-assisted three-dimensional (3D) display system (Ngenuity®): feasibility and comparison with standard procedure assisted by a microscope

09.30 – 11.00

PRESENTED POSTER SESSION

Glaucoma I

Poster Village: Pod 3

Facilitators: **S. Amir-Asgari** *AUSTRIA*
S. Palkovits *AUSTRIA*

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| <p>10.20 V. Guduru, K. Siddharthan, J. Kasireddy <i>INDIA</i>
Slice the ice: Descemet's membrane endothelial keratoplasty for iridocorneal endothelial syndrome – a first ever case series</p> <p>10.25 M. Garat Chifflet, D. Ortiz-Vaquerizas <i>SPAIN</i>
Uncontrolled corneal melting in a Xeroderma pigmentosum patient</p> <p>10.30 R. Karadag, K. Hammersmith, P. Nagra, C. Rapuano <i>TURKEY</i>
Anterior chamber characteristics after Descemet's stripping automated endothelial keratoplasty in patients with Fuchs' dystrophy</p> <p>10.35 S. Ganekal <i>INDIA</i>
Early outcomes of primary paediatric keratoplasty in patients with acquired, atraumatic corneal pathology</p> <p>10.40 H. Sitnik <i>BELARUS</i>
Outcomes of corneal transplantation for advanced keratoconus</p> <p>10.45 M. Arino, N. Alejandro-Alba, B. García-Sandoval, I. Jimenez-Alfaro, P. Arriola-Villalobos, M. Iradier, N. Gentile <i>SPAIN</i>
Relationship between unfolding time of the DMEK roll and endothelial cell loss</p> <p>10.50 I. Gavriluyk, A. Kulikov, S. Churashov, V. Chernysh, O. Aleksandrova, M. Blinova <i>RUSSIA</i>
Stem cells of the oral mucosa during reconstructive corneal surgery under conditions of experimental limbal insufficiency</p> <p>10.55 F. Beer, N. Maycock, R. Jayaswal <i>UK</i>
Use of Omnigen human amniotic membrane-derived dry matrix for pterygium surgery</p> <p>11.00 End of session</p> | <p>09.30 J. Kwon, J. Shin <i>SOUTH KOREA</i>
Effect of topical glaucoma medication on tear lipid layer thickness in patients with unilateral glaucoma</p> <p>09.35 J. Izquierdo, N. Agudelo, B. Rubio, L. Cañola, K. Ruiz <i>PERU</i>
Comparative outcomes of ab interno canaloplasty vs trabeculectomy in uncontrolled open-angle glaucoma</p> <p>09.40 Q. Kaba, E. Tam, S. Somani, D. Yuen <i>UK</i>
Efficacy and safety of micropulse cyclophotocoagulation for patients with ocular hypertension and glaucoma</p> <p>09.45 S. McCafferty, J. Levine, A. McColgin <i>USA</i>
Correcting applanation tonometer surface prism accuracy and correlation to biomechanical errors: a multicentre randomised clinical trial</p> <p>09.50 A. Daas, A. Nagar, H. Ho, A. Amon, I. Versi, K. Gadhvi, S. Lim <i>UK</i>
Early results of phacoemulsification combined with micropulse cyclodiode laser in patients with glaucoma: efficacy and safety</p> <p>09.55 A. Antonova, V. Nikolaenko <i>RUSSIA</i>
Evaluation of some ocular surface characteristics before and after trabeculectomy</p> <p>10.00 O. Ermakova, V. Chernykh, A. Trunov <i>RUSSIA</i>
Levels of cytokines and growth factors in the aqueous humour of eyes with developed stage of primary open-angle glaucoma and cataract</p> <p>10.05 D. Belov, V. Nikolaenko <i>RUSSIA</i>
Predictability of intraocular lens power calculation after Ahmed valve implantation</p> <p>10.10 J. Gamiochipi Arjona, Y. Azses Halabe, P. Tolosa Tort, M. Turati Acosta, J. Jiménez Román <i>MEXICO</i>
Relationship of glaucoma severity and medical treatment compliance with depression</p> <p>10.15 X. Guo, B. Ang, P. Lim, B. Lim, V. Yong, H. Wong, L. Yip <i>SINGAPORE</i>
Comparison of surgical outcomes of sponge-applied vs subconjunctival injection of mitomycin C during combined phacoemulsification and trabeculectomy surgery in Asian eyes</p> <p>10.20 F. Aptel <i>FRANCE</i>
Sustained IOP and medication reduction after MIGS with second-generation trabecular bypass stents in OAG: 48-month outcomes</p> |
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10.00 – 10.50

OPENING CEREMONY

Auditorium

Official Opening

- 10.00 Welcome from the President
B. Cochener-Lamard *FRANCE (PRESIDENT, ESCRS)*
- 10.10 Welcome from the local host
T. Amzallag *FRANCE (PRESIDENT, SAFIR)*

Peter Barry Fellowship 2019

- 10.15 Announcement of recipient
B. Cochener-Lamard *FRANCE*

Binkhorst Medal Lecture 2019

- 10.20 **E. Assia** *ISRAEL*
Thinking Outside the Box: New Perspective on Current Surgical Technologies



- 10.50 End of ceremony

- 10.25 **C. Lee, T. Lee, J. Nam** *SOUTH KOREA*
The effect of nasal steroid injection for nasal polyp on intraocular pressure
- 10.30 **Y. Elsayed** *EGYPT*
900-case experience of star-shaped trabeculectomy
- 10.35 **H. Falvey, A. Buchholz, P. Buchholz, S. Bluemle, C. Steeds** *USA*
A budget-impact analysis of the iStent inject trabecular micro-bypass system vs trabeculectomy for the treatment of glaucoma from a German payer perspective
- 10.40 **Y. Nakai, K. Bessyo, Y. Shono, K. Taoka, Y. Nakai** *JAPAN*
A comparative study between two perimeters of imo 30-2 and HFA 30-2, SITA-Standard in glaucomatous eyes
- 10.45 **K. Suleiman, R. Bafiq, T. Ressiniotis** *UK*
A study on outcome of second-generation iStent inject micro-bypass with cataract surgery
- 10.50 **D. Khozиеv, E. Iomdina, O. Kiseleva, A. Bessmertny, P. Luzhnov, D. Shamaev, I. Moiseeva** *RUSSIA*
Biomechanics of the corneoscleral shell and hemodynamics of the glaucomatous eye: is there a connection?
- 10.55 **M. Castany, J. Rigo Quera, S. Banderas, O. Pujol, A. Dou** *SPAIN*
Biomicroscopic and anterior segment OCT findings in filtration blebs of XEN45 implant in the remodelling phase
- 11.00 End of session

10.00 – 12.30

INSTRUCTIONAL COURSE

IC38* Comprehensive keratoplasty techniques (Part 2) (A)

J. Güell *SPAIN*, M. Busin *ITALY*, H. Dua *UK*,
R. Mohan *INDIA*
West 3

10.30 – 12.30

INSTRUCTIONAL COURSES

IC43 Managing phaco complications in rock hard cataracts (I)

K. Mehta *INDIA*, E. Assia *ISRAEL*, M. Piovella *ITALY*,
Z. Biro *HUNGARY*, C. Mehta *INDIA*, S. Arshinoff *CANADA*
South 2

IC44 Toric IOLs: planning for success and dealing with failure (I)

M. Goggin *AUSTRALIA*, P. Hoffmann *GERMANY*,
B. LaHood *NEW ZEALAND*
South 3

IC45 Enhanced screening and planning prior to refractive surgery: corneal topography, tomography, biomechanics and beyond (I)

R. Ambrosio Jr *BRAZIL*, M. Belin *USA*,
W.J. Dupps *USA*, C. Roberts *USA*, J. Lyra *BRAZIL*,
P. Vinciguerra *ITALY*
South 4

IC46 Techniques and devices for surgical reconstruction of traumatic and developmental iris defects (I)

S. Srinivasan *UK*, K. Miller *USA*, M. Synder *USA*,
S. Masket *USA*
South 6

IC47* Schlemm's canal surgery: ab-externo and ab-interno (viscocanalostomy and canaloplasty) (A)

C. Peckar *UK*, R. Stegmann *SOUTH AFRICA*,
V. Jasinskas *LITHUANIA*, S. Ondrejka *GERMANY*
West 1

IC48 Management of paediatric cataracts (A)

V. Vasavada *INDIA*, A. Vasavada *INDIA*,
M.J. Tassignon *BELGIUM*, V. Pfeifer *SLOVENIA*
West 2

IC84 The very basic phaco course (B)

YO D. Spalton *UK*, L. Benjamin *UK*, R. Packard *UK*,
A. Assaf *EGYPT*
West 4

11.00 – 13.00

MAIN SYMPOSIUM

Surgeons Under Stress

Auditorium

Chairpersons: O. Findl *AUSTRIA*
M. Severinsen *DENMARK*

Panellists: All speakers

- 11.00 **M. Bayerle-Eder** *AUSTRIA (CONSULTANT INTERNAL MEDICINE)*
Understanding stress
- 11.10 **B. Little** *UK*
The running out rhexis
- 11.20 **B. Malyugin** *RUSSIA*
The constricting pupil
- 11.30 Discussion
- 11.35 **S. Palkovits** *AUSTRIA*
Surgical stress quantified
- 11.45 **V. Pfeifer** *SLOVENIA*
The wobbling lens
- 11.55 **J. Güell** *SPAIN*
The challenging phakic IOL
- 12.05 Discussion
- 12.10 **M. Muraine** *FRANCE*
The DMEK flap upside-down
- 12.20 **A. Presland** *UK (CONSULTANT ANAESTHETIST)*
Relaxing the patient
- 12.30 **S. Severinsen** *DENMARK*
(BREATHEOLOGY, MSC BIOLOGY & PHD MEDICINE)
Relaxing the surgeon: stress control for your next surgery
- 12.50 Discussion
- 13.00 End of session

* Wetlab Pre-Requisite (A) Advanced (B) Basic (I) Intermediate
Handouts available at www.esprs.org

14.00 – 16.00

JOURNAL OF CATARACT & REFRACTIVE SURGERY® SYMPOSIUM

Controversies in Cataract & Refractive Surgery

Auditorium

Chairpersons: **T. Kohnen** *GERMANY (EUROPEAN EDITOR)*
W.J. Dupps *USA (US ASSOCIATE EDITOR)*

IOL Calculations

- 14.00 **D. Gatinel** *FRANCE*
Artificial intelligence
- 14.15 **G. Barrett** *AUSTRALIA*
Modern IOL calculations
- 14.30 Discussion

Presbyopia-Correcting IOLs

- 14.40 **R. Mencucci** *ITALY*
EDOF
- 14.55 **J. Alfonso** *SPAIN*
Trifocal
- 15.10 Discussion

Intraoperative Antibiotics

- 15.20 **A. Behndig** *SWEDEN*
Yes
- 15.35 **A. Brézin** *FRANCE*
No
- 15.50 Discussion
- 16.00 End of session

14.00 – 16.00

VIDEO AWARDS SESSION

Announcement of the Winners of the 2019 Video Competition

North 3

Chairperson: **R. Packard** *UK*

Judging Panel: **J. Alió** *SPAIN*
E. Assia *ISRAEL*
Z. Biro *HUNGARY*
C. Budo *BELGIUM*
E. Fabian *GERMANY*
R. Linnola *FINLAND*
B. Little *UK*
B. Malyugin *RUSSIA*
O. Nishi *JAPAN*
S. Ong *THE NETHERLANDS*
V. Picardo *ITALY*
M. Piovella *ITALY*

The first place video in each category, and the overall Michael Blumenthal Award winner, will be viewed and discussed during the session. Prizes will be awarded in the following categories:

Difficult and Special Cases

Educational

Historical

Innovative

Resident in Training

Scientific

Cataract and refractive poster prizes, and the John Henahan Prize for Young Ophthalmologists, will also be awarded.

14.00 – 16.00

FREE PAPER SESSION

Extended-Depth-Of-Focus IOLs I

Free Paper Forum: Podium 1

Chairperson: G. Auffarth *GERMANY*

Co-Chairperson: S. Zaluski *FRANCE*

- | | | | |
|-------|--|-------|---|
| 14.00 | E. Bertelmann, T. Brockmann, A. Kapp, T. Reinhard, L. Kiraly, S. Colonval, J. Nascimento <i>GERMANY</i>
Multicentre prospective randomised clinical trial to evaluate the depth of focus of AT LARA 829MP, TECNIS Symphony and CT ASPHINA 409MP | 15.06 | T. Chung, Y. Yoo, Y. Kim, K. Shin, D. Lim <i>SOUTH KOREA</i>
Comparison of visual outcomes between extended-depth-of-focus lenses |
| 14.06 | M. Packer <i>USA</i>
Clinical outcomes of a novel monofocal extended-depth-of-focus intraocular lens | 15.12 | C. Balachandran, S. Lee, D. Carson, J. Lemp-Hull <i>AUSTRALIA</i>
Vision outcomes of a non-diffractive extended-vision intraocular lens implanted with mini-monovision |
| 14.12 | F. Poyales, A. Mearza, D. Varma, C. Balachandran, J. Lemp-Hull <i>SPAIN</i>
Multi-country clinical outcomes of a new non-diffractive extended-vision intraocular lens at six months postoperatively | 15.18 | C. Choi, J. Song <i>SOUTH KOREA</i>
Clinical outcomes of mix-and-match implantation of EDOF and +3.25 add bifocal IOLs |
| 14.18 | G. Labuz, R. Khoramnia, A. Özen, H. Son, T. Yildirim, G. Auffarth <i>GERMANY</i>
Clinical evaluation of light-spectrum effects on the visual performance in patients with a diffractive extended-depth-of-focus intraocular lens | 15.24 | Discussion |
| 14.24 | Discussion | 15.30 | S. Lane, Z. Xu, J. Lutkenhaus, H. Zhang, S. Lee, X. Hong <i>USA</i>
An experimental bench investigation of a new monofocal IOL for its design trade-off: refractive power shift and consequent image quality impact |
| 14.30 | J. Odette, K. Waltz, B. Wahl, D. Nguyen <i>USA</i>
Retrospective study of an extended-depth-of-focus IOL in the presence of macular disease compared to a control group without macular disease | 15.36 | E. Mrukwa-Kominek, A. Piotrowska-Gwozdz, W. Lubon, M. Kozikowska <i>POLAND</i>
The sinusoidal trifocal intraocular lens in cataract surgery and its effect on the quality of patients' vision |
| 14.36 | M. Romero, C. Palomino, D. Carmona, A. Castillo <i>SPAIN</i>
Comparative study of the defocus tolerance between diffractive trifocal and extended-depth-of-focus intraocular lenses | 15.42 | F. Kretz, D. Breyer, I. Kaiser, R. Lucchesi, C. Herbers, M. Moftha, S. Abdassalam <i>GERMANY</i>
Individualised presbyopia treatment with intraocular lenses based on refractive optical principles |
| 14.42 | M. Gil, C. Varón, G. Cardona, J. Buil <i>SPAIN</i>
Visual acuity, defocus curves and contrast sensitivity with three EDOF IOLs (TECNIS Symphony ZXROO, Mini WELL Ready and AT LARA 829MP) six months after cataract intervention | 15.48 | I. Baur, H. Son, T. Yildirim, P. Poompokawat, R. Khoramnia, G. Auffarth <i>GERMANY</i>
First clinical experience with a new monofocal intraocular lens with enhanced depth-of-focus |
| 14.48 | P. Versace, E. Darian-Smith <i>AUSTRALIA</i>
Functional performance and positional stability of a rhexis fixated IOL | 15.54 | Discussion |
| 14.54 | Discussion | 16.00 | End of session |
| 15.00 | R. Bilbao Calabuig, F. Llovet Osuna, V. Tejerina, F. Gonzalez-Lopez, J. Ortega-Usobiaga, J. Beltran, C. Pagnoulle <i>SPAIN</i>
Isopure IOL: optical principles, optical bench results and first clinical outcomes of a new EDOF intraocular lens | | |

14.00 – 16.00

FREE PAPER SESSION

Combined Cataract Surgery
& Practice Styles

Free Paper Forum: Podium 2

Chairperson: **G. Kleinmann** *ISRAEL*Co-Chairperson: **S. Manning** *IRELAND*

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| <p>14.00 G. Bouitlier, M. Muraine, A. Denoyer, E. Gabison, D. Bernheim, M. Hacquard <i>FRANCE</i>
Refractive precision after combined endothelial DMEK keratoplasty and cataract surgery: multicentre study</p> <p>14.06 K. Khripun, Y. Nizametdinova <i>RUSSIA</i>
Descemetorhexis combined with phacoemulsification in eyes with decompensated Fuchs' corneal endothelial dystrophy</p> <p>14.12 L. Burk, J. Gilmore, L. Gilmore <i>USA</i>
Dual Blade goniotomy and direct viscodilation of the collector channels combined with cataract surgery: one year results</p> <p>14.18 V. Vargas Fragoso, R. Barraquer, J. D'Antin, C. Garcia, F. Duch, J. Balgos, J. Alió <i>SPAIN</i>
Visual outcomes, safety and main causes of posterior chamber phakic intraocular lens bilensectomy</p> <p>14.24 Discussion</p> <p>14.30 K. Waltz, J. Odette, B. Wahl <i>USA</i>
Retrospective study of an extended-depth-of-focus IOL in the presence of glaucoma compared to a control group without glaucoma</p> <p>14.36 Y. Ota, H. Bissen-Miyajima, M. Hirasawa, K. Minami, K. Yuki <i>JAPAN</i>
Visual function of extended-depth-of-focus intraocular lens in glaucomatous eye</p> <p>14.42 Discussion</p> <p>14.46 T. Om Parkash, R. Om Parkash, S. Mahajan <i>INDIA</i>
Validity of the flap motility sign: a sign of posterior capsule rupture in anterior capsular tears</p> <p>14.52 M. Zetterberg, A. Behndig <i>SWEDEN</i>
Cataract surgery volumes from 2007 to 2016: relation to case mix and composite risk score for capsule complication data – from the Swedish National Cataract Register</p> <p>14.58 A. Silvester, A. Pitalia <i>UK</i>
Risk stratifying for posterior capsule rupture: validity and utility for senior surgeons performing high-volume cataract surgery</p> <p>15.04 K. Ichikawa, Y. Matsuzaki, T. Ohta <i>JAPAN</i>
Postoperative results of the Mt Fuji technique used for posterior capsule rupture</p> <p>15.10 Discussion</p> | <p>15.16 S. Manning, M. Dickman, Y. Henry, P. Rosen, M.J. Tassignon, U. Stenevi, M. Lundstrom <i>IRELAND</i>
Changing practice patterns in European cataract surgery as reflected by the European Registry of Quality Outcomes in Cataract and Refractive Surgery: a long-term study 2008–2017</p> <p>15.22 L. Ong-Tone <i>CANADA</i>
Practice patterns of Canadian Ophthalmological Society members in cataract surgery: survey 2018</p> <p>15.28 I. Can, T. Takmaz <i>TURKEY</i>
Turkish Ophthalmological Association cataract surgery trend survey: 2018 results</p> <p>15.34 U. Harley, E. Farquhar, A. Rotchford, K. Ramaesh <i>UK</i>
Are we performing cataract surgery too early? An analysis of patient-reported outcomes (PROs)</p> <p>15.40 M. Bhogal, M. Potter, C. Wilde <i>UK</i>
Self-directed appraisal and refinement improves surgical efficiency in high volume cataract surgery</p> <p>15.46 M. Shultz, V. Kolesnitchenko, G. Lau, A. Pilon <i>USA</i>
Utility of centralised cloud-based parameter database for setting optimisation for vacuum-based phacoemulsification surgery</p> <p>15.52 Discussion</p> <p>16.00 End of session</p> |
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14.00 – 16.00

FREE PAPER SESSION

Posterior Chamber Phakic IOLs

Free Paper Forum: Podium 3

Chairperson: R. Zaldivar *ARGENTINA*

Co-Chairperson: T. Neuhann *GERMANY*

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|---|--|
| <p>14.00 R. Vida, D. Reinstein, T. Archer <i>UK</i>
Outcomes of implantable collamer lens and footplate analysis by very high-frequency digital ultrasound</p> <p>14.06 S. Goes <i>BELGIUM</i>
Quality of vision at different time intervals after phakic implantable collamer lens type V4c with a central port implantation: a prospective study</p> <p>14.12 Y. Peng, M. Zhun, Y. Qin, Y. Zhang <i>CHINA</i>
Preliminary clinical study of LenSx femtosecond laser-assisted corneal keratotomy for correction of low or moderate astigmatism in posterior chamber intraocular lens implantation</p> <p>14.18 D. Lin, M. Peng, L. Zhao, M. Khan <i>CHINA</i>
'No viscoat' implantable collamer lens implantation</p> <p>14.24 L. Liu, J. Li <i>CHINA</i>
Effect of visco-less single-incision ICL implantation for myopic eyes</p> <p>14.30 Discussion</p> <p>14.38 L. Fernandez-Vega-Cueto, B. Alfonso-Bartolozzi, C. Lisa, R. Montés-Mico, J. Alfonso <i>SPAIN</i>
Implantable collamer lens (ICL) for management of pseudophakic ametropia in eyes with a spectrum of previous corneal surgery</p> <p>14.44 Z. Yang, Y. Luo <i>CHINA</i>
Acute maculopathy after Visian implantable collamer lens (ICL) implantation</p> <p>14.50 E. Pazo, Z. Liu, H. Huang, C. Zheng, L. Xu, W. He <i>CHINA</i>
The impact of angle kappa and pupil size on quality of vision in high myopic patients with implantable collamer lens (ICL) implantation</p> <p>14.56 D. Reinstein, R. Vida, T. Archer <i>UK</i>
Implantable collamer lens (ICL) vault and lens separation prediction using a multivariate regression model based on parameters acquired by very high-frequency digital ultrasound</p> <p>15.02 F. Gonzalez-Lopez, C. Bouza-Miguens, M. Dupré, B. Mompean, R. Bilbao-Calabuig <i>SPAIN</i>
Dynamic pupillometry by swept-source anterior segment optical coherence tomography in eyes implanted with phakic collamer intraocular lens with central port for correction of myopia</p> | <p>15.08 I. Romac Coc, B. Armstrong <i>UAE</i>
Incidence and evaluation of iridociliary cysts in patients who are candidates for posterior chamber implantable collamer lens surgery</p> <p>15.14 Q. Chen, W. Tan <i>CHINA</i>
The vault after ICL implantation in myopia patients with anterior-positioned ciliary body</p> <p>15.20 P. Serra, Á. Sánchez Trancón, S. Cerpa Manito, O. Torrado, A. Baptista <i>SPAIN</i>
Determining vault size in implantable collamer lenses: preoperative anatomy and lens parameters</p> <p>15.26 Discussion</p> <p>15.34 J. Providência, M. Raimundo, P. Gil, M. Guerra, J. Póvoa, C. Lobo, J. Neto-Murta <i>PORTUGAL</i>
Long-term endothelial and visual safety in iris-fixated phakic intraocular lenses</p> <p>15.40 P. Baptista, A. Marta, N. Silva, J. Poças, D. José, M. Lume, M. Pinto <i>PORTUGAL</i>
Comparative analysis on long-term qualitative and quantitative visual outcomes between two phakic intraocular lenses: Visian® ICL™ and Artiflex®</p> <p>15.46 M. Tomita <i>JAPAN</i>
Refractive and visual outcomes with posterior chamber implantable phakic contact lens (IPCL) for presbyopia patients: one year follow-up</p> <p>15.52 Discussion</p> <p>16.00 End of session</p> |
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14.00 – 16.00

FREE PAPER SESSION

Microinvasive Glaucoma Surgery

Free Paper Forum: Podium 4

Chairperson: **F. Aptel** *FRANCE*Co-Chairperson: **C. Traverso** *ITALY*

- 14.00 **F. Rüfer, M. Dabiri, B. Alokla, M. Matthäi, D. Holland** *GERMANY*
IOP-lowering effect with the iStent inject® in POAG eyes with or without history of previous ocular surgery
- 14.06 **A. Carceller Guillamet** *SPAIN*
Prospective randomised study evaluating one, two, or three trabecular micro-bypass stents for OAG: 5 year outcomes
- 14.12 **F. Hengerer** *GERMANY*
Personal experience with second-generation trabecular micro-bypass stents (iStent inject®) in patients with glaucoma: 4 year follow-up
- 14.18 **J. Van Der Hoek** *UK*
Comparison of six-month outcomes of trabeculectomy, XEN and iStent performed by a single surgeon
- 14.24 Discussion
- 14.30 **A. Cywiński, L. Bednarski** *POLAND*
A treatment of refractory glaucoma in patients after posterior vitrectomy using Ahmed valve in an own modification
- 14.36 **C. Clement, A. Ioannidis, M. Shiu, D. Manning, F. Howes** *AUSTRALIA*
Outcomes with second-generation trabecular micro-bypass stents (iStent inject®) combined with cataract surgery in patients with glaucoma: an Australian experience
- 14.42 **E. Liang** *USA*
Initial real-world experience with iStent inject® trabecular micro-bypass stents in combination with cataract surgery
- 14.48 **F. Aptel, J. Batlle, H. Beckers, J. García-Feijoó, Y. Lachkar, I. Riss, T. Shaarawy** *FRANCE*
One-year results from a pooled analysis of three studies assessing the MicroShunt in patients with primary open-angle glaucoma with low or high preoperative intraocular pressure
- 14.54 Discussion
- 15.00 **F. Thattaruthody, S. Pandav, N. Seth, A. Jurangal, S. Kaushik, S. Raj** *INDIA*
Intermediate and long-term outcomes of a low cost non valved glaucoma drainage device in refractory glaucoma
- 15.06 **J. Izquierdo, N. Agudelo, B. Rubio, C. Ponte, J. Camargo, L. Cañola** *PERU*
Initial outcomes of combined phacoemulsification with endocyclophotocoagulation with and without ab interno trabeculotomy in open-angle glaucoma
- 15.12 **G. Bravetti, K. Mansouri, A. Villamarin, K. Gillmann, N. Stergiopoulos, A. Mermoud** *ITALY*
XEN-augmented Baerveldt vs eyeWatch in refractory glaucoma: one year outcomes
- 15.18 **G. Gazzard** *UK*
3 year safety and efficacy outcomes from an international, prospective, multicentre and randomised study of a Schlemm's canal microstent (HORIZON trial)
- 15.24 Discussion
- 15.30 **K. Gundersen** *NORWAY*
Initial clinical results after implantation of 2nd generation trabecular micro-bypass stents (iStent inject®) with cataract surgery
- 15.36 **T. Neuhann** *GERMANY*
My observations after almost 300 trabecular micro-bypass glaucoma surgeries with iStent inject over a period of five years
- 15.42 **G. Moussa, P. Pandey, J. Panthagani, M. Kutubi, I. Masood** *UK*
Phacoemulsification with iStent® trabecular micro-bypass stents in complex and moderate to advanced glaucoma: three-year effectiveness and safety outcomes
- 15.48 **J. Simão, J. Chaves, M. Raimundo, J. Cardoso, P. Faria, J. Filipe, J. Pereira** *PORTUGAL*
CO2 laser-assisted sclerectomy vs trabeculectomy: one year results
- 15.54 Discussion
- 16.00 End of session

14.00 – 15.00



MODERATED POSTER SESSION

Finding the Right Pseudophakic Presbyopia Treatment

Poster Village: Pod 2

Moderators: S. Morselli *ITALY*
A. Toso *ITALY*

- 14.00 **R. Bellucci** *ITALY*
First visual and refractive outcomes with a new EDOF trifocal IOL designed to improve on the intermediate vision
- 14.08 **B. Bostanci Ceran, A. Karatepe Hashas, H. Arifoglu, E. Tasindi** *TURKEY*
Visual outcomes and patient satisfaction with a new trifocal intraocular lens with sinusoidal vision technology
- 14.16 **A. Cummings, T. Mueller, B. Pajic, B. Dick** *IRELAND*
Does an objective evaluation of patients' daily life influence surgeon selection of presbyopia-correcting IOLs?
- 14.24 **F. Pastor-Pascual, R. Ruiz-Mesa** *SPAIN*
Visual outcomes of a new intraocular lens with a continuous transitional focus
- 14.32 **D. Chang, G. Auffarth, P. Janakiraman, E. Thomas, L. Tsai, J. Domingo** *USA*
Visual outcomes and defocus curve profile of a next-generation diffractive presbyopia-correcting intraocular lens
- 14.40 **C. Balachandran, R. Lapid, R. Suryakumar** *AUSTRALIA*
Comparative study of the functional range of vision of two different multifocal IOL designs
- 14.48 **Y. Park** *SOUTH KOREA*
Evaluation of a diffractive trifocal IOL in patients with previous myopic laser vision correction over a 12-month follow-up period
- 14.56 Discussion
- 15.00 End of session

14.30 – 15.30

INSTRUCTIONAL COURSES

- IC49** **Residual astigmatism after toric intraocular lens implantation: what to do next? (I)**
O. Findl *AUSTRIA*, P. Hoffmann *GERMANY*, N. Hirsenschall *AUSTRIA*, B. Bostanci Ceran *TURKEY*
South 2
- IC50** **Introduction to visual behavior (I)**
A. Cummings *IRELAND*, B. Dick *GERMANY*, F. Carones *ITALY*, J. Schwiegerling *USA*
South 3
- IC51** **Premium IOLs after corneal refractive surgery (I)**
A. Dmitriew *POLAND*, E. Mrukwa-Kominek *POLAND*, R. Bellucci *ITALY*
South 4
- IC52** **So you think you can dance? A video tutorial for the novice and intermediate DMEK surgeon to make unscrolling more efficient and reproducible (I)**
C. Sales *USA*, P. Veldman *USA*, M. Greiner *USA*, P. Phillips *USA*
South 6
- IC53** **DMEK 2.0: pull-through technique (A)**
M. Busin *ITALY*, C. Bovone *ITALY*, V. Scordia *ITALY*, S. Madi *EGYPT*
West 1
- IC54** **Cataract surgery in coexisting corneal pathology (A)**
M. Balidis *GREECE*, B. Allan *UK*, V. Maurino *UK*
West 2
- IC55** **IOL power calculations: when biometry is not enough (A)**
S. Pantanelli *USA*, C. Arce *BRAZIL*, G. Savini *ITALY*, P. Preussner *GERMANY*
West 3
- IC56** **Methods for IOL exchange (I)**
M. Romero *USA*, S.P. Chee *SINGAPORE*, C. McCabe *USA*, P. Narang *INDIA*
West 4
- IC57** **Ocular surface masterclass: what's new in management of OSD in glaucoma, herpes simplex/zoster, neurotrophic keratopathy and SJS for cataract surgeons (A)**
V. Saw *UK*, E. Messmer *GERMANY*, M. Labetoulle *FRANCE*, G. Geerling *GERMANY*
West 5
- IC58** **Advanced intracorneal segment implantation (I)**
R. Barraquer *SPAIN*, J. Alfonso *SPAIN*, J. Alvarez de Toledo *SPAIN*
West 6

(A) Advanced (B) Basic (I) Intermediate
Handouts available at www.esccrs.org

15.00 – 16.30

PRESENTED POSTER SESSION

Enlarged-Depth-of-Focus vs
Multifocal IOLs

Poster Village: Pod 1

Facilitators: M. Shajari *GERMANY*
G. Steinwender *AUSTRIA*

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|-------|---|-------|--|
| 15.00 | G. Labuz, R. Khoramnia, G. Auffarth <i>GERMANY</i>
Laboratory assessment of the effect of spectral filters on the optical performance in an extended-depth-of-focus intraocular lens | 15.50 | J. Schwiegerling, J. Lemp-Hull, S. Lane, K. Baker <i>USA</i>
Simulated visual acuity performance of monofocal and extended-depth-of-focus intraocular lenses |
| 15.05 | M. Gil, F. Vega, J. Azor, N. Garzón, M. Millán, J. Buil <i>SPAIN</i>
Monofocal intraocular lens designed to extend depth of focus | 15.55 | F. Kretz, D. Breyer, I. Kaiser, R. Lucchesi, C. Herbers, M. Moftha, S. Abdassalam <i>GERMANY</i>
Finding the right presbyopia treatment: EDOF, trifocal or their combination? |
| 15.10 | B. Dick, S. Schmickler <i>GERMANY</i>
Visual performance of monocular implantation of a small-aperture intraocular lens: long-term follow-up | 16.00 | K. Kok Khiang <i>MALAYSIA</i>
Blended vision with Oculentis Mplus X MF30 and Oculentis Mplus MF20: the visual outcome and patient satisfaction of 150 patients |
| 15.15 | E. Papamichael, J. Fajardo-Sanchez, V. Rowe, G. Pramanik, B. Sewak, R. Jayaswal, R. Angunawela <i>UK</i>
Real-world outcomes from small-aperture lens implantation | 16.05 | O. Orenburkina, M. Bikbov <i>RUSSIA</i>
Femtolasar arcuate incisions for residual astigmatism correction after multifocal intraocular lens implantation |
| 15.20 | C. McCabe, J. Berdahl, J. Lemp-Hull, F. Poyales, C. Balachandran <i>USA</i>
Visual disturbance profile of a non-diffractive extended vision intraocular lens from two pivotal trials | 16.10 | S. Kuznetsov, R. Galeev <i>RUSSIA</i>
Implantation of bifocal intraocular optical system (BIOS): preliminary results |
| 15.25 | W. Mayer, M. Mackert, M. Shajari, J. Langer, B. Schworm, A. Wolf, S. Priglinger <i>GERMANY</i>
Safety and efficacy of lens exchange surgery with implantation of a small-aperture intraocular lens in eyes with severe corneal irregularities | 16.15 | J. Garcia Perez, L. Alvarez-Rementeria Capelo, J. Gros-Otero, M. Garcia-Gonzalez, J. Ruiz-Alcocer <i>SPAIN</i>
Is automated refraction a valid system for estimating manifest refraction in patients implanted with trifocal IOLs? |
| 15.30 | S. Shah, S. Shah, S. Rothe, O. Pirdankar <i>INDIA</i>
Effect of glare on contrast sensitivity in subjects implanted with multifocal IOLs | 16.20 | E. Mrukwa-Kominek, W. Lubon, A. Piotrowska-Gwozdz, M. Sarnat-Kucharczyk, M. Kozikowska <i>POLAND</i>
Quality of vision after innovative trifocal IOL implantation in presbyopic cataract patients |
| 15.35 | N. Garzón, C. Albarrán-Diego, M. García-Montero, E. López-Artero, F. Poyales <i>SPAIN</i>
Influence of trifocal intraocular lenses on standard automated refraction and aberrometer-based automated refraction | 16.25 | M. Piovella, B. Kusa <i>ITALY</i>
Trifocal technology IOLs to correct refractive defects and presbyopia after cataract surgery |
| 15.40 | Y. Eom, S. Choi, C. Kim, S. Yang, J. Choi, J. Kim, H. Kim <i>SOUTH KOREA</i>
Intraocular lens-induced astigmatism according to the orientation of multi-zonal design multifocal intraocular lens | 16.30 | End of session |
| 15.45 | F. Poyales, N. Garzón, Y. Zhou, R. Pérez <i>SPAIN</i>
Comparison of visual performance and patient satisfaction in patients implanted with diffractive trifocal IOLs with similar optic design but differing in the IOL material | | |

15.00 – 16.30

PRESENTED POSTER SESSION

Keratorefractive Surgery Results I

Poster Village: Pod 2

Facilitators: W. Lubon *POLAND*
S. Wagner *POLAND*

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|---|--|
| <p>15.00 L. Terracciano, G. Albani, D. Mucciolo, S. Rizzo <i>ITALY</i>
FemtoLASIK for the correction of ametropia after penetrating keratoplasty: one-year follow-up</p> <p>15.05 K. Kudlu, V. Jain, H. Vokuda, S. Girish <i>INDIA</i>
Comparing the predictability, stability, efficacy, refractive outcome, contrast sensitivity and spherical aberrations in eyes undergoing SMILE and PRK: 1 year study</p> <p>15.10 S. Jacob <i>INDIA</i>
Paediatric SMILE for myopic anisometropia</p> <p>15.15 S. Patel, A. Bišćević, M. Boháč, A. Pidro, M. Ahmedbegović Pjano, A. Pašalić <i>UK</i>
A comparison between transepithelial photorefractive keratectomy (T-PRK) and femtolaser in situ keratomileusis (FemtoLASIK): changes in the higher order ocular aberrations and vector analysis of astigmatic corrections at 6 months postop</p> <p>15.20 J. Siedlecki <i>GERMANY</i>
Safety and efficacy of small incision lenticule extraction (SMILE) in eyes with flat and steep keratometry: a matched comparative study</p> <p>15.25 R. Arra, S. Ganesh, S. Brar <i>INDIA</i>
'Gas bubble escape sign': a new intraoperative predictor of immediate visual quality after SMILE</p> <p>15.30 A. Kanellopoulos, F. Xhani <i>GREECE</i>
Can use of topography-modified refraction (TMR) in topo-guided LASIK (tgL) reduce residual refractive cylinder (RRC)? Comparing with-the-rule (WR) to against-the-rule (AR) to oblique cylinder (OC)</p> <p>15.35 R. Shehadeh-Mashor, M. Mimouni, Y. Shapira, T. Sela, G. Munzer, I. Kaizerman <i>ISRAEL</i>
Factors associated with dry eye disease following keratorefractive surgery</p> <p>15.40 K. Klabe, D. Breyer, H. Kaymak, T. Ax, F. Kretz, G. Auffarth <i>GERMANY</i>
Three-year results after femtosecond laser-assisted circular keratotomy as a treatment for keratoconus stage I-II: comparison with (iontophoresis-assisted) corneal cross-linking</p> <p>15.45 N. Alpíns <i>AUSTRALIA</i>
Managing astigmatism to avoid LASIK surprises</p> <p>15.50 V. de Rojas, A. Tobio <i>SPAIN</i>
Comparison of the keratometric index before and after small incision lenticule extraction</p> | <p>15.55 C. Pérez Casaseca, A. Valenzuela Pérez, J. Ramos Navarro <i>SPAIN</i>
Correlation between angle kappa and D-values of Belin/Ambrósio</p> <p>16.00 E. Manche, K. Hirabayashi <i>USA</i>
A prospective evaluation of topography-guided LASIK surgery: preliminary results</p> <p>16.05 J. Alio del Barrio, R. Hanna, M. Canto-Cerdan, A. Vega-Estrada, J. Alió <i>SPAIN</i>
Late LASIK flap lift for refractive enhancements after five and ten years: safety and efficacy</p> <p>16.10 M. Luger, S. Arba Mosquera <i>THE NETHERLANDS</i>
Visual rehabilitation after corneal damage using wavefront-guided transepithelial PTK</p> <p>16.15 S. Awwad, N. El Salloukh, P. Ibrahim <i>LEBANON</i>
Selective corneal wavefront-guided transepithelial photorefractive keratectomy on post-corneal graft eyes</p> <p>16.20 L. Batalina, N. Pashinova, E. Gurmizov, K. Pershin, A. Tsygankov <i>RUSSIA</i>
Additional correction using LASIK and PRK on pseudophakic eyes depending on the type of implanted IOL</p> <p>16.25 T. Kohnen, M. Herzog, K. Petermann, E. Hemkeppler, R. Forster, M. Böhm, C. Lwowski <i>GERMANY</i>
Improvement of reading visual acuity in presbyopic patients by multifocal aspheric excimer laser surgery in LASIK treatments</p> <p>16.30 End of session</p> |
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15.00 – 16.30

PRESENTED POSTER SESSION

Glaucoma II

Poster Village: Pod 3

Facilitators: D. Jordanovova *CZECH REPUBLIC*
M. Sajdikova *CZECH REPUBLIC*

- | | |
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| <p>15.00 S. Pipis, G. Panos, A. Vergados <i>UK</i>
Clinical effectiveness and safety of phaco combined with iStent inject G1 and iStent inject G2 in glaucoma service</p> <p>15.05 A. Roble, H. Ali, T. Kersey <i>UK</i>
Combined phacoemulsification with iStent or XEN or endo-cyclodiode: two years' retrospective outcomes</p> <p>15.10 A. Matsou, M. Dermenoudi, A. Tzamalís, E. Anastasopoulos <i>UK</i>
Comparative study of the safety and efficacy of two techniques of diode laser transcleral cyclophotocoagulation for refractory glaucoma</p> <p>15.15 D. Choudhury, N. Dash <i>INDIA</i>
Delayed presentation of hypermature cataract in a developing nation: causes, risk of developing lens-induced glaucoma and visual prognosis following cataract surgery</p> <p>15.20 N. Nizamani, I. Masood <i>UK</i>
Goniosynechialysis: an effective management strategy for secondary angle-closure glaucoma</p> <p>15.25 A. Nagar, S. Goyal, E. Galvis, A. Ramirez, A. Das, P. Alaghband, S. Lim <i>UK</i>
Goniotomy using the Kahook Dual Blade (KDB) in glaucoma: a 3-month follow-up of tonographic outflow facility</p> <p>15.30 U. Elgin, E. Sen, O. Budakoglu, D. Yildirim, N. Yesilyaprak <i>TURKEY</i>
Laser peripheral iridotomy-induced changes in corneal densitometry in acute primary angle-closure glaucoma cases</p> <p>15.35 B. Basarir, C. Altan, B. Solmaz, I. Pasaoglu, N. Alagoz, T. Yasar <i>TURKEY</i>
Long-term clinical outcomes of micropulsed transcleral cyclophotocoagulation in open-angle glaucoma</p> <p>15.40 R. Rivero Gómez, U. Moreno-Paramo, E. Vidaurre-Mora, G. Lazcano-Gomez, J. Jimenez-Roman <i>MEXICO</i>
Long-term outcomes of the Ahmed valve implant as primary surgical treatment of glaucoma associated with Axenfeld-Rieger spectrum</p> <p>15.45 I. Grabska-Liberek, P. Duda, M. Rogowska, J. Majczyk-Ionescu, A. Skowrya, I. Kane <i>POLAND</i>
OMNI™ open-angle glaucoma treatment: an 18-month follow-up</p> | <p>15.50 S. García-Delpech, A. Hervás, P. Udaondo, E. Sanz Marco <i>SPAIN</i>
Optic nerve perfusion analysis with glaucoma angio-OCT</p> <p>15.55 D. Cela, E. Brasnu, P. Hamard, C. Baudouin, A. Labbé <i>FRANCE</i>
Safety and efficacy of iStent Inject® trabecular micro-bypass stents during phacoemulsification for open-angle glaucoma associated with cataract</p> <p>16.00 M. Gallardo <i>USA</i>
Single-surgeon experience with iStent trabecular micro-bypass implanted in conjunction with cataract surgery: long-term outcomes</p> <p>16.05 N. Olga <i>UKRAINE</i>
Surgery of viscocycloidiotraction with excision of episclera in the treatment of patients with neovascular glaucoma</p> <p>16.10 T. Lyubimova, E. Tumanyan, E. Ivashchenko <i>RUSSIA</i>
The effectiveness of the one-step combined laser technique, consisting of the modified selective laser activation of the trabecula (MSLAT) and Descemet's goniotomy (DGP)</p> <p>16.15 F. Stringa, R. Chen, P. Agrawal <i>UK</i>
Timing and postoperative outcomes of supramid removal after Baerveldt tube (BVT) surgery in a UK tertiary referral centre</p> <p>16.20 N. Moura-Coelho, E. Luís, M. Vieira, J. Cardigos, M. Dutra-Medeiros, T. Gomes, M. Reina <i>PORTUGAL</i>
Two-year clinical results of XEN45® gel stent in a tertiary centre of ophthalmology in Portugal</p> <p>16.25 A. Ansari, B. Karri, D. Mathews <i>UK</i>
XEN stents: one year efficacy and experience in the management of this novel device</p> <p>16.30 End of session</p> |
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16.00 – 18.00



YOUNG OPHTHALMOLOGISTS SESSION

Cataract Surgery: Learning From Our Mistakes (video-based didactic lectures)

South 5

Chairpersons: O. Findl *AUSTRIA*
D. Monnet *FRANCE*
S. Palkovits *AUSTRIA*
C. Pedrosa *PORTUGAL*
F. Ribeiro *PORTUGAL*
N. Visser *THE NETHERLANDS*

Starting cataract surgery

- 16.00 **M. Severinsen** *DENMARK*
Getting the crack
- 16.15 **I. Yusuf** *UK*
Avoid a posterior capsule tear
- 16.30 Discussion

Gaining some experience

- 16.40 **M. Ramalho** *PORTUGAL*
How to approach PEX patients
- 16.55 **V. Diakonis** *GREECE*
How to handle IFIS and small pupils
- 17.10 Discussion

Getting more advanced

- 17.20 **D. Monnet** *FRANCE*
Doing the first anterior vitrectomy
- 17.35 **B. Bostanci Ceran** *TURKEY*
Which IOL now?
- 17.50 Discussion
- 18.00 End of session



Send your questions to the chairpersons via the 'ESCRS Paris 2019' app

16.00 – 18.00

INSTRUCTIONAL COURSES

IC59 A video bouquet of phaco complications which should never have occurred: tips on damage control and prevention to optimise postoperative outcomes (B)

A. Chakrabarti *INDIA*, R. Yeoh *SINGAPORE*,
K. Tjia *THE NETHERLANDS*, S. Haldipurkar *INDIA*,
N. Reus *THE NETHERLANDS*, B. Little *UK*
South 2

IC60 **FLACS: the state of the art (I)**



A. Marinho *PORTUGAL*, Z. Nagy *HUNGARY*,
A. Vasavada *INDIA*, S. Vasavada *INDIA*,
G. Auffarth *GERMANY*, R. Bellucci *ITALY*
South 3

IC61 Therapeutic refractive surgery for treatment of secondary corneal optical irregularities and keratoconus (A)

A. Stojanovic *NORWAY*, A. Cummings *IRELAND*,
T. Archer *UK*, M. Mrochen *SWITZERLAND*,
A. Kanellopoulos *GREECE*, R. Vinciguerra *ITALY*
South 4

IC62 Functional oculoplastic surgery for cataract and refractive surgeons (A)

V. Thaller *UK*, E. Dafgard-Kopp *SWEDEN*,
G. Charonis *GREECE*, R. de Keizer *THE NETHERLANDS*
South 6
This course is organised by the European Society of Ophthalmic Plastic and Reconstructive Surgery

IC63 Ocular surface procedures in the treatment room (I)

A. Slomovic *CANADA*, T. Trinh *AUSTRALIA*,
G. Santaella *COLOMBIA*, N. Singal *CANADA*,
D. Rootman *CANADA*, A. Slomovic *CANADA*
West 1

IC64 Teaching statistics in the overall context of preparing and writing a scientific paper (B)



D. Young *UK*
West 2
Department of Mathematics & Statistics, University of Strathclyde, Scotland

IC65 Fuchs' endothelial dystrophy: new concepts about pathophysiology and treatment – DSAEK, DMEK or DWEK? (I)

E. Sarnicola *ITALY*, K. Colby *USA*, S. Hannush *USA*,
C. Sarnicola *ITALY*, R. Fogla *INDIA*, E. Sarnicola *ITALY*
West 3

IC66 Customised cross-linking (I)

T.G. Seiler *SWITZERLAND*, R. Rajpal *USA*,
A. Behndig *SWEDEN*, R. Shetty *INDIA*,
B. Frueh *SWITZERLAND*, T. Seiler *SWITZERLAND*
West 4

IC67 Optimising toric IOL outcomes (I)

G. Kleinmann *ISRAEL*, D. Koch *USA*,
G. Barrett *AUSTRALIA*, A. Abulafia *ISRAEL*,
E. Assia *ISRAEL*
West 5

IC68 Enhancing the 'wow' factor in small incision lenticule extraction (A)

NEW

S. Ganesh *INDIA*, D. Breyer *GERMANY*,
D. Donate *FRANCE*, A. Hamid *UK*, S. Brar *INDIA*
West 6

IC69 Visual field evaluation (I)

F. Rowe *UK*
West 7

(A) Advanced (B) Basic (I) Intermediate
Handouts available at www.es CRS.org

16.30 – 18.00

FREE PAPER SESSION

Multifocal IOLs I

Free Paper Forum: Podium 1

Chairperson: **E. Mrukwa-Kominek** *POLAND*

Co-Chairperson: **T. Olsen** *DENMARK*

- 16.30 **D. Gatinel, J. Loicq, C. Pagnouille** *FRANCE*
Reduction of the longitudinal chromatic aberration generated by trifocal diffractive IOLs
- 16.36 **H. Yoon, E. Kim, M. Kim, H. Hwang** *SOUTH KOREA*
Vision simulation of patients with multifocal intraocular lens using a mobile model eye
- 16.42 **E. Villegas, L. Hervella, S. Manzanera, P. Prieto, P. Artal** *SPAIN*
Adaptive optics visual simulation of trifocal IOLs to predict postoperative success
- 16.48 **J. Zapata-Díaz, J. Lajara-Blesa, N. López-Gil** *SPAIN*
Optical performances of four advanced multifocal IOLs
- 16.54 Discussion
- 17.00 **P. Poompokawat, G. Labuz, R. Khoramnia, G. Auffarth** *GERMANY*
Image quality evaluation of three trifocal intraocular lens models under polychromatic light
- 17.06 **F. Casanova, F. Soares** *BRAZIL*
Colour change in multifocal intraocular lenses
- 17.12 **E. Law, H. Buckhurst, R. Aggarwal, H. Kasaby, P. Buckhurst** *UK*
Assessing and predicting the effective addition power of multifocal intraocular lenses
- 17.18 Discussion
- 17.24 **C. Fernandez, L. Fernandez-Vega-Cueto, B. Alfonso-Bartolozzi, R. Montes-Mico, J. Alfonso** *SPAIN*
Visual and refractive outcomes in hyperopic pseudophakic patients implanted with a trifocal intraocular lens
- 17.30 **O. Donmez, Y. Aydin Akova, A. Akman** *TURKEY*
Evaluation of angle kappa in patient satisfaction after implantation of a new trifocal intraocular lens
- 17.36 **Y. Yoo, D. Paik, Y. Kim, K. Shin, D. Lim, T. Chung** *SOUTH KOREA*
Effect of pupil size and intraocular lens decentration on visual outcomes in diffractive trifocal intraocular lens implantation
- 17.42 **C. Bellucci, R. Bellucci, M. Cargnoni** *ITALY*
Patient satisfaction and secondary procedures with trifocal intraocular lenses
- 17.48 Discussion
- 18.00 End of session

16.30 – 18.00

FREE PAPER SESSION

Paediatric Cataract Surgery

Free Paper Forum: Podium 2

Chairperson: M.J. Tassignon *BELGIUM*

Co-Chairperson: T. Schultz *GERMANY*

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| <p>16.30 C. Dhull, S. Khokhar, Y. Gupta, K. Tiwari <i>INDIA</i>
Role of ultrasound biomicroscopy in planning paediatric cataract surgery</p> <p>16.36 J. Prado Marques, R. Fachinelli, A. Rodrigues <i>BRAZIL</i>
Estimation of mean keratometry from biometric data and postoperative refraction of children's eyes submitted to congenital and developmental cataract facetectomy</p> <p>16.42 U. Elbaz, A. Achiron, Y. Ron, R. Yavnieli, N. Adar Cohen, O. Rock, U. Elbaz <i>ISRAEL</i>
Evaluation of the Barrett Universal II formula for prediction of postoperative refraction following paediatric cataract surgery</p> <p>16.48 S. Vasavada, V. Vasavada, D. Agarwal, A. Vasavada, V. Vasavada <i>INDIA</i>
Intraoperative performance and postoperative outcomes of congenital cataract surgery up to six months of age</p> <p>16.54 Discussion</p> <p>17.00 J. Català-Mora, D. Cuadras, J. Díaz-Cascajosa, M. Castany-Aregall, J. Prat-Bartomeu, J. García-Arumí <i>SPAIN</i>
Anterior iris-claw intraocular lens implantation for the management of non-traumatic ectopia lentis: long-term outcomes in a paediatric cohort</p> <p>17.06 M. Tekavcic Pompe, S. Markelj, V. Pfeifer <i>SLOVENIA</i>
Intraocular lens implantation in children with cataracts due to chronic uveitis</p> <p>17.12 N. Bahgat, G. Gawdat, M. Youssef, D. Elfayoumi, M. Salah <i>EGYPT</i>
Incidence and risk factors of early-onset glaucoma following paediatric cataract surgery In Egyptian children: one year study</p> <p>17.18 A. Ellayeh, S. Gawad, E. Awad, S. Saleh <i>EGYPT</i>
Posterior approach vs anterior approach in management of congenital cataract in Egyptian infants</p> <p>17.24 Discussion</p> <p>17.30 R. Anjum, U. Raina, S. Chaudhary, S. Gupta, J. Goyal, P. Sharma, V. Saini <i>INDIA</i>
The surgical and visual outcomes of 25-gauge vitrectorhexis in paediatric cataract surgery with in-the-bag IOL implantation</p> | <p>17.36 R. Karim, R. Jolly, R. Henderson, P. Sharwood, C. Edelsten <i>UK</i>
Primary cataract extraction and IOL implantation in the uveitic paediatric population</p> <p>17.42 S. Khurana, J. Ram, R. Singh, P. Chawla Gupta <i>INDIA</i>
Outcomes of cataract surgery in persistent fetal vasculature (PFV)</p> <p>17.48 A. Mukherjee, S. Rao, B. Patel <i>INDIA</i>
Modification of technique for performing manual small incision cataract surgery by left-handed surgeons: it is different</p> <p>17.54 Discussion</p> <p>18.00 End of session</p> |
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16.30 – 18.00

FREE PAPER SESSION

LASIK & PRK I

Free Paper Forum: Podium 3

Chairperson: T. Kohnen *GERMANY*Co-Chairperson: V. Jhanji *USA*

- 16.30 **M. Luger, S. Arba Mosquera** *THE NETHERLANDS*
Long-term outcomes after LASIK using hybrid bi-aspheric micro-monovision ablation profile for the surgical compensation of presbyopia: six year results
- 16.36 **J. Gros-Otero, A. Parafita, M. Garcia-Gonzalez, M. Alonso, A. Rodero, A. Katsanos, M. Teus** *SPAIN*
Influence of flap thickness homogeneity over refractive outcomes and higher order aberrations induction after myopic femto-LASIK
- 16.42 **N. Alpíns, G. Stamatelatos** *AUSTRALIA*
Assessing standard astigmatism outcomes after refractive laser surgery
- 16.48 **A. Frings, B. Allan** *GERMANY*
Pyramidal aberrometry in wavefront-guided myopic LASIK: latest results
- 16.54 **A. Katsanos, J. Gros-Otero, S. Ketabi, R. Cañones-Zafra, S. Casado, A. Parafita-Fernández, M. Teus** *GREECE*
Corneal stromal roughness following LASIK flap-creation with four different femtosecond lasers: IntraLase, Visumax, LenSx and iFS: an atomic force microscopy study
- 17.00 **B. Kaluzny, I. Piotrowiak-Slupska, M. Kaszuba-Modrzejewska, J. Rzeszewska, S. Verma, S. Arba Mosquera** *POLAND*
Three year outcomes of mixed astigmatism correction with single-step transepithelial PRK
- 17.06 **J. Arbelaez, M. Arbelaez** *OMAN*
Ocular wavefront-guided femtosecond LASIK based on a new high definition pyramid aberrometer
- 17.12 Discussion
- 17.21 **L. Idriss, M. Alharbi, A. Alqarni, M. Ahad** *SAUDI ARABIA*
Topography-guided custom ablation treatment (TCAT) for residual refractive error after keratoplasty
- 17.27 **N. Duru, Z. Duru, D. Ulusoy** *TURKEY*
Comparison of the samfilcon A and lotrafilcon B silicone hydrogel contact lenses on postoperative pain control after photorefractive keratectomy
- 17.33 **K. Stonecipher** *USA*
Topographic guided laser (TCAT) outcomes using a new vector software program (Phorcides)
- 17.39 **O. Spierer, M. Mimouni, A. Nemet, G. Rabina, I. Kaiserman** *ISRAEL*
Preoperative keratometry in hyperopic laser keratorefractive surgery: do steep corneas have worse outcomes?
- 17.45 **F. Faria Correia, S. Ribeiro, T. Monteiro, B. T. Lopes, R. Ambrósio Jr.** *PORTUGAL*
Outcomes comparison between wavefront optimised and topography-guided PRK in contralateral eyes with myopia and myopic astigmatism
- 17.51 Discussion
- 18.00 End of session

16.30 – 18.00

FREE PAPER SESSION

Corneal Biomechanics

Free Paper Forum: Podium 4

Chairperson: R. Ambrosio Jr *BRAZIL*

Co-Chairperson: D. Touboul *FRANCE*

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| <p>16.30 G. Mahadevan, R. Shetty, N. Dhami, A. Ghosh, A. Roy <i>INDIA</i>
Regional biomechanics and its correlation with molecular signatures in keratoconus</p> <p>16.36 R. Vinciguerra, A. Tzamalís, V. Romano, E. Arbabi, M. Batterbury, S. Kaye <i>ITALY</i>
Assessment of the association between in vivo corneal biomechanical changes after collagen cross-linking and depth of demarcation line</p> <p>16.42 S. Rodrigo Rey, R. Cañones-Zafra, M. García-González, P. Drake, I. Rodríguez, G. Bolívar-de Miguel, M. Teus <i>SPAIN</i>
Variation in the inter-day corneal thickness measurements performed with Corvis ST vs Pentacam in healthy corneas: a comparative study</p> <p>16.48 S. Pirhadi, S. Daryabari, K. Jadidi, N. Mohamadi <i>IRAN</i>
Corneal biomechanical metrics in patients with keratoconus according to gender group</p> <p>16.54 Discussion</p> <p>17.00 S. McCafferty, J. Levine, A. Mccolgin <i>USA</i>
A novel clinical method for measuring corneal elasticity in vivo</p> <p>17.06 S. Chen, P. Zhu, A. Vega-Estrada, J. Silvestre-Albero, J. Alió, F. Rodríguez-Reinoso, L. Bataille <i>CHINA</i>
Biomechanical effect of carbon nanomaterial implanted in rabbit corneal stroma</p> <p>17.12 K. Jadidi, F. Nejat, S. Daryabari, S. Pirhadi <i>IRAN</i>
Corneal biomechanics metrics in patients following DSAEK surgery compared with healthy eyes</p> <p>17.18 N. Menassa, M. Brunner, C. de Lossada, D. Borroni, G. Czanner, S. Kaye, V. Romano <i>UK</i>
Posterior corneal curvature changes in patients with keratoconus</p> <p>17.24 Discussion</p> <p>17.30 N. Shilova, N. Anisimova, B. Malyugin <i>RUSSIA</i>
Corneal optical densitometry following femtosecond laser-assisted DSEK vs microkeratome-assisted DSAEK: a comparative study</p> <p>17.36 I. Toprak, A. Vega-Estrada, E. Esplá-Almodóvar, J. Alió <i>TURKEY</i>
Changes in corneal epithelium-to-stroma ratio in patients with keratoconus without visual limitation</p> | <p>17.42 B. Benito, L. Morales-Fernández, J. García-Bella, L. Perucho-González, J. Martínez-de-la-Casa, J. García-Feijoo <i>SPAIN</i>
Densitometric and biomechanical corneal characteristics in patients with primary congenital glaucoma</p> <p>17.48 W. Sekundo, B. Spuru, S. Kling, E. Torres-Netto, A. Lazaridis, F. Hafezi <i>GERMANY</i>
Biomechanical properties of human cornea tested by two-dimensional extensimetry ex vivo in fellow eyes: PRK vs SMILE</p> <p>17.54 Discussion</p> <p>18.00 End of session</p> |
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16.15 – 18.15

VIDEO SYMPOSIUM ON SURGICAL COMPLICATIONS

'You Make the Call'

Real-Time Reactions of Experts to Unseen Videos

Auditorium

Chairpersons: T. Amzallag *FRANCE*
 D. Chang *USA*
 B. Cochener-Lamard *FRANCE*
 R. Nuijts *THE NETHERLANDS*

The chairpersons will present 8 different video cases selected from their own practice.

The videos will be paused at key decision points and the audience will be asked to make multiple clinical decisions using their voting keypads.

Expert panellists who, like the audience, are viewing the videos for the first time will discuss the management of each case both before and after the outcome is shown.

Panellists: E. Assia *ISRAEL*, S. Zaluski *FRANCE*

16.15 **Case 1:**
Bad vision after routine phaco
 (R. Nuijts)

16.30 **Case 2:**
35 year old hates glasses
 (D. Chang)

Panellists: C. Albou-Ganem *FRANCE*, V. Pfeifer *SLOVENIA*

16.45 **Case 3:**
Keep smiling after the dissection
 (B. Cochener-Lamard)

17.00 **Case 4:**
Big IOL exchange
 (T. Amzallag)

Panellists: J. Güell *SPAIN*, M. Muraine *FRANCE*

17.15 **Case 5:**
Fixing a cataract behind a cloudy curtain
 (B. Cochener-Lamard)

17.30 **Case 6:**
Phakic IOL corneal decompensation
 (R. Nuijts)

Panellists: B. Malyugin *RUSSIA*, P. Rozot *FRANCE*

17.45 **Case 7:**
Phaco of subluxated lenses: where is the limit?
 (T. Amzallag)

18.00 **Case 8:**
PCR in EDOF IOL patient
 (D. Chang)

18.15 End of session



Voting keypads available during this session

ESCRS Heritage Lecture 2019

Monday 16 September
10.30 – 11.00



David Spalton UK

‘The Origins Of Cataract Surgery’

Professor David Spalton trained at Moorfields Eye Hospital and has fellowships with the Royal College of Surgeons, the Royal College of Physicians and the Royal College of Ophthalmologists. He was Consultant Ophthalmic Surgeon at St Thomas’ Hospital where he now has Emeritus Status, the Royal Hospital Chelsea (the Chelsea Pensioners) and King Edward VII Hospital, and is Professor of Ophthalmology at King’s College, London.

At St Thomas’ Hospital he specialised in complex cataract surgery and intraocular lens design, and is well known internationally for his interests in teaching, training and research. His interest in posterior capsule opacification was acknowledged when he gave the Ridley Medal Lecture at the ESCRS Congress in 2010. He has published over 180 papers and his textbook ‘An Atlas of Clinical Ophthalmology’ won the prize for the best medical textbook of the year for both the 1st and 3rd editions, a unique feat in medical publishing. It is translated into 10 languages and was voted to be one of the 100 best ophthalmic textbooks of the 20th century.

He is Past President of the ESCRS and of the United Kingdom and Ireland Society of Cataract and Refractive Surgeons (UKISCRS). He has given both the Choyce and Ridley Medal Lectures at UKISCRS and the Ridley Medal Lecture at St Thomas’, and holds an NHS Gold Award as well as both the UKISCRS Gold and Life time Achievement Awards. He is a Trustee of Fight for Sight, the UK eye research charity, a special adviser to the Ridley Foundation, and the ophthalmic adviser to the Metropolitan Police and Motor Sports Association, as well as a consultant to a number of biotech and ocular device companies.

Outside ophthalmology his interests are, apart from his family, gardening and fly fishing, and he is a member of the Garrick Club.

MONDAY

16 September

08.00 – 18.00

ESCRS PRACTICE MANAGEMENT AND DEVELOPMENT PROGRAMME

Challenges and Opportunities for the 21st Century Practice

West 8

Chairperson: **P. Rosen** *UK*

Moderator: **R. Solar** *UK*

- 08.00 **C. Kerr** *IRELAND*, **P. Rosen** *UK*
Report on ESCRS Practice Management and Development Activities 2019
- 08.15 **T. Evans** *USA*
Next-generation marketing
- 09.15 **D. Evans** *USA*
Diversification: your key to digital success
- 10.15 **P. McGinn** *IRELAND*
GDPR: lessons learned
- 11.00 Break
- 11.30 Presentation of Innovations Prize
- 12.45 Break
- 14.00 **A. Cummings** *IRELAND*, **P. Rosen** *UK*,
G. Sallet *BELGIUM*, **P. Stodulka** *CZECH REPUBLIC*
Ask the experts
- 14.45 **M. Cherfan** *LEBANON*
Build it and they will come
- 15.15 **G. Sallet** *BELGIUM*, **P. Stodulka** *CZECH REPUBLIC*
Build a high-performing practice by investing in your staff and patients
- 16.15 **A. Cummings** *IRELAND*, **P. Rosen** *UK*
Optimising patient flow in a busy practice
- 17.15 **S. Daya** *UK*, **D. Kook** *GERMANY*
How to negotiate
- 18.00 End of session

08.00 – 10.00

INSTRUCTIONAL COURSES

- IC70** **NEW** **EVICR.net: anterior segment medical devices – the facts and future trends (All Levels)**
J. Alió *SPAIN*, M.J. Tassignon *BELGIUM*, F. Cordeiro *UK*,
P. Bloom *UK*, A. Grzybowski *POLAND*,
V. Pfeifer *SLOVENIA*, M. Eydelman *USA*,
K. Januschowski *GERMANY*
South 2
- IC71** **Phaco nightmares and worst case scenarios: a video-based course (I)**
A. Agarwal *INDIA*, D. Chang *USA*, R. Osher *USA*,
A. Agarwal *INDIA*, T. Kohnen *GERMANY*
South 3
- IC72** **Tips and tricks for challenging cataract surgery (I)**
M. Nanavaty *UK*, B. Little *UK*, R. Packard *UK*,
D. Spalton *UK*, L. Benjamin *UK*
South 4
- IC73** **EBO** **Endophthalmitis after cataract surgery (B)**
P. Montan *SWEDEN*, S. Kaynak *TURKEY*,
L. Cordoves Dorta *SPAIN*, T. Chan *SINGAPORE*,
N. Shorstein *USA*
South 6
- IC74** **Early quantitative and qualitative keratoconus diagnosis and progression criteria utilising a combination of modern cornea diagnostics (I)**
A. Kanellopoulos *GREECE*, G. Pamel *USA*,
R. Ambrosio Jr *BRAZIL*, D. Reinstein *UK*
West 1
- IC75** **Current state of CXL: controversies and recommendations (A)**
F. Hafezi *SWITZERLAND*, C. Mazzotta *ITALY*,
R. Shetty *INDIA*, R. Vinciguerra *ITALY*,
B. Randleman *USA*, T. Seiler *SWITZERLAND*
West 2
- IC76** **Astigmatism management with toric IOL (B)**
J. Bovet *SWITZERLAND*, F. Soler-Fernandez *SPAIN*,
G. Barrett *AUSTRALIA*, H. Carreras Dias *SPAIN*,
K. Mehta *INDIA*
West 3
- IC77** **NEW** **Rock hard cataracts the easy way (A)**
S. Mohan *INDIA*, M. Rajan *INDIA*, S. Ganesh *INDIA*,
S.P. Chee *SINGAPORE*, S. Jacob *INDIA*, K. Singh *INDIA*
West 4
- IC78** **Decision-making in medical and surgical retina for cataract and refractive surgeons (A)**
G. Richard *GERMANY*, O. Zeitz *GERMANY*,
L. Konstantinidis *SWITZERLAND*, B. Weingessel *AUSTRIA*,
L. Wagenfeld *GERMANY*
West 5
This course is organised by the European Society of Retina Specialists

08.30 – 10.30

FREE PAPER SESSION

Multifocal IOLs II

Free Paper Forum: Podium 1

Chairperson: P. Rozot *FRANCE*

Co-Chairperson: F. Llovet Osuna *SPAIN*

IC79 Phakic IOL decision-making: when and where to implant? When and how to explant? (I)

T. Monteiro *PORTUGAL*, J. Güell *SPAIN*,
J. Murta *PORTUGAL*, C. Lisa *SPAIN*, F. Vaz *PORTUGAL*
West 6

(A) Advanced (B) Basic (I) Intermediate

Handouts available at www.es CRS.org

08.30 **H. Tchah, S. Park, J. Lee, M. Kim, J. Lee, C. Lee, J. Kim** *SOUTH KOREA*

Comparison between EDOF/+3.25D addition MFIOL mix-and-match implantation and +2.75D/+4.0D addition MFIOL mix and match implantation

08.36 **K. Hayashi, T. Sato, C. Igarashi, M. Yoshida** *JAPAN*

Comparison of binocular visual outcomes between bilateral trifocal intraocular lenses and combined bifocal intraocular lenses with different near addition power

08.42 **R. Lapid-Gortzak, C. Balachandra, J. Schwiegerling, R. Suryakumar** *THE NETHERLANDS*

A comparative study of the functional range of vision of two different multifocal IOL designs

08.48 **R. Khoramnia, F. Kretz, M. Gerl, D. Breyer, H. Son, G. Auffarth** *GERMANY*

Comparison of clinical outcomes after bilateral implantation of three different trifocal intraocular lenses

08.54 Discussion

09.01 **R. Ang** *PHILIPPINES*

Comparison of hydrophilic and hydrophobic diffractive trifocal intraocular lenses: visual performance and patient satisfaction

09.07 **R. Bang, M. Bang, R. Gandhi** *INDIA*

Clear lens extraction with trifocal apodised diffractive intraocular lens implantation

09.13 **F. Llovet Osuna, A. Llovet, J. Ortega-Usobiaga, R. Bilbao, G. Muñoz, M. Martinez-del-Pozo, M. Calvo** *SPAIN*

Visual outcomes, spectacle independence and satisfaction after RayOne trifocal intraocular lens implantation

09.19 **J. Vryghem** *BELGIUM*

Trifocal implants in post-LASIK lens surgery: toric or not

09.25 **A. de Medeiros, F. Jones Saraiva, C. Takashi Nakano, A. Motta, C. Vilar, T. Borges de Melo, W. Takashi Hida** *BRAZIL*

Comparison of visual outcomes after bilateral implantation of two diffractive intraocular lenses with distinct optics

09.31 Discussion

09.38 **X. Barcala, M. Romero, N. Garzon, F. Poyales, E. Gamba, S. Marcos, C. Dorronsoro** *SPAIN*

Effect of cataract on preoperative predictions of multifocal acceptance with SimVis Gekko

- 09.44 **S. Chang, W. Wu** *TAIWAN*
Age affects intraocular lens attributes preference
- 09.50 **S. Goker, B. Ayoglu** *TURKEY*
Multifocal intraocular lens implantation after previous corneal refractive laser for myopia, hyperopia and presbyopia (Supracor): complications and enhancement treatments
- 09.56 **M. Blau-Most, O. Reitblat, A. Levy, E. Assia, G. Kleinmann** *ISRAEL*
Clinical outcomes of multifocal intraocular lenses in patients with Fuchs' endothelial corneal dystrophy
- 10.02 **F. Soler-Fernandez, A. Sánchez-García, N. López-Gil, M. Jaskulski, D. Piñero** *SPAIN*
Characterisation of visual work distance and mobile phone usage patterns in different professional profiles
- 10.08 **N. Sau, R. Sau, A. Sil** *INDIA*
Bang on multifocality pseudoaccommodation
- 10.14 **J. Alió, O. Al-Shymali, O. Al-Shymali, C. McAlinden** *SPAIN*
Multifocal intraocular lens exchange by a different multifocal technology in patients with neuroadaptation failure: clinical outcomes and patient satisfaction
- 10.20 **T. Amzallag, P. Rozot, J. Pynson, N. Arbousoff, C. Josse** *FRANCE*
Comparison of three presbyopia-correcting intraocular lenses based on the statistical analysis of their performance scores obtained with a mathematical model of their defocus curves
- 10.26 Discussion
- 10.30 End of session

08.30 – 10.30

FREE PAPER SESSION

Cornea: Medical

Free Paper Forum: Podium 2

Chairperson: **S. Barisic** *SERBIA*

Co-Chairperson: **M. Daly** *USA*

- 08.30 **C. Siffel, F. Ganzera, C. Joseph, N. Hennies, V. Lascano, M. Scheider** *USA*
Analysis of the burden of dry eye disease in Germany: a retrospective study of German sickness funds claims data
- 08.36 **P. Jensen, K. Gundersen** *NORWAY*
The prevalence of dry eye in patients presenting for routine cataract surgery as determined by subjective and objective testing
- 08.42 **E. Karaca, D. Özek, Ö. Evren Kemer** *TURKEY*
Application of a practical on-site-made amniotic membrane ring for restoration of ocular surface health in dry eye disease
- 08.48 **Y. Nahum, E. Livny, I. Bahar, Y. Leshem** *ISRAEL*
Dupilumab-induced ocular surface disease (DIOSD): a case series
- 08.54 Discussion
- 09.00 **A. Ogundele, B. Schechter, D. Evans, S. Kannarr, J. Sheppard, C. Darby, J. Luchs, P. Karpecki** *USA*
Efficacy and safety of OTX-101, a novel nanomicellar cyclosporine formulation, in patients with conjunctivitis sicca: results of a pooled secondary analysis
- 09.06 **M. Mimouni, O. Daphna** *CANADA*
Hyperosmotic contact lens vs standard bandage contact lens for corneal edema
- 09.12 **P. Desai, S. Desai** *INDIA*
Low-dose supratarsal triamcinolone acetonide for treatment of refractory vernal keratoconjunctivitis
- 09.18 **J. Alio del Barrio, D. Chung, O. Al-Shymali, A. Aldave** *SPAIN*
Punctiform and polychromatic pre-Descemet's corneal dystrophy: clinical evaluation and identification of the genetic basis
- 09.24 Discussion
- 09.30 **M. Molero Senosiain, L. Salazar Quiñones, S. Aguilar Munoa, J. Gegundez Fernandez, A. Muñoz Hernandez, D. Diaz Valle** *SPAIN*
New extracellular matrix regenerative agent (RGTA-Cacicol®) in the medical management of persistent corneal epithelial defects
- 09.36 **N. Nassiri, K. Sheibani, M. Safarzadeh** *IRAN*
Comparative assessment of tear function tests, tear osmolarity, and conjunctival impression cytology between patients with pterygium and healthy eyes

08.30 – 10.30

FREE PAPER SESSION

Cataract Surgery Equipment

Free Paper Forum: Podium 3

Chairperson: **R. Bellucci** *ITALY*

Co-Chairperson: **P. Stodulka** *CZECH REPUBLIC*

- 09.42 **N. Palarie, T. Pasenco, N. Pali,**
L. Vudu *MOLDOVA*
Platelet-rich growth factor in the treatment of complex corneal disorders
- 09.48 **E. Holland, E. Donnenfeld, R. Lindstrom,**
A. Vardanyan, T. Adamyan, L. Karageozian,
J. Aubel *USA*
Safety and efficacy of a novel integrin inhibitor ALG-1007 topical ophthalmic solution for the treatment of dry eye disease
- 09.54 Discussion
- 10.00 **N. Estebanez Corrales, A. Alvear Torres,**
R. Touriño García, O. Sánchez Pernaute,
N. Alejandro-Alba *SPAIN*
Peripheral ulcerative keratitis in idiopathic or autoimmune diseases
- 10.06 **R. Shah, J. Kakadia** *INDIA*
Chemical keratoplasty by using rho-kinase inhibitor as eye drops
- 10.12 **U. Yilmaz, H. Kaya, M. Turan, F. Bir,**
B. Şahin *TURKEY*
Investigation of the effect of Hypericum perforatum on corneal alkali burn
- 10.18 **M. Pellegrini, F. Bernabei, F. Moscardelli,**
G. Giannaccare *ITALY*
Automated assessment of corneal fluorescein staining based on digital image analysis
- 10.24 Discussion
- 10.30 End of session

- 08.30 **K. Bennett-Brown, D. Gosling** *UK*
Silicone-tipped irrigation and aspiration: rates of posterior capsule rupture
- 08.36 **C. Shumway, N. Ellis, J. Heczko, B. Jiang,**
L. Werner, N. Mamalis *USA*
Evaluation of the capsular safety of a novel hybrid phacoemulsification tip in a cadaver eye model
- 08.42 **B. Cronin, J. Domingo, B. Jackson,**
P. Janakiraman *AUSTRALIA*
Clinical investigation of a new preloaded insertion system used during cataract surgery
- 08.48 **T. Akahoshi** *JAPAN*
New IOL delivery system for FineVision Triumf: a trifocal EDOF IOL of hydrophobic glistening-free acrylic material with double C-loop design
- 08.54 Discussion
- 09.00 **C. Quijano, L. Escaf, L. Melo, J. Londoño,**
E. Viteri, M. Patiño, L. Escaf *UK*
Escaf Ultrachop®: 12 years of safe and effective use in phacoemulsification for different types of cataract
- 09.06 **A. Perez-Arteaga** *MEXICO*
Hydrodissection and hydrodelamination with forced infusion performed with non-dominant hand
- 09.12 **S. Georgiev, K. Stjepanek, J. Hienert,**
N. Hirschall, O. Findl *AUSTRIA*
Anterior chamber depth fluctuation during cataract surgery in myopic eyes using an automated pressurised bottle system
- 09.18 **A. Vasavada, S. Vasavada, V. Vasavada,**
S. Srivastava *INDIA*
Dynamic real-time IOP measurements on rabbits for two different phacoemulsifier systems
- 09.24 **T. Om Parkash, R. Om Parkash, S. Mahajan,**
T. Om Parkash *INDIA*
Calibrated side-port incision in phacoemulsification
- 09.30 Discussion
- 09.36 **J. Reddy, S. Devta, K. Vupparaboina,**
M. Hasnat Ali, P. Vaddavalli *INDIA*
Centration of intraocular lens and morphology of capsulotomy prepared by manual, femtosecond laser, and precision-pulse capsulotomy techniques

- 09.42 **P. Stodulka, R. Packard, A. Mackova, K. Liska, M. Sramka** *CZECH REPUBLIC*
Two years' follow-up of eyes with a selective laser capsulotomy (SLC) performed by CAPSULaser
- 09.48 **E. Mertens** *BELGIUM*
Early clinical experience with a new selective laser capsulotomy (SLC) device
- 09.54 **M. Dallinga, A. Levitski, I. van der Meulen, R. Lapid-Gortzak** *THE NETHERLANDS*
Capsulorhexis size decrease during phacoemulsification surgery
- 10.00 Discussion
- 10.06 **M. Pastore, G. Cirigliano, R. Merli, R. Giglio, L. Belfanti, D. Tognetto** *ITALY*
Swept-source OCT optical biometry to detect macular disease in patients scheduled for cataract surgery
- 10.12 **H. Rashed, T. Eliwa, T. Abdel Raziq, A. El Massry** *EGYPT*
Objective/ocular scatter index: a study of its utility in lens surgery
- 10.18 **N. Lemanski, B. Lemanski** *USA*
Retrospective comparison of white-to-white measurements between the Meibox Meibograph and the Pentacam HR and IOLMaster: a pilot study
- 10.24 **S. Srinivasan, G. Meehan** *UK*
Visual and refractive outcomes following cataract surgery with a small-aperture intraocular lens in eyes with previous radial keratotomy
- 10.30 End of session

08.30 – 10.30

FREE PAPER SESSION

Femtolasar-Assisted Cataract Surgery (FLACS)

Free Paper Forum: Podium 4

Chairperson: **D. Monnet** *FRANCE*

Co-Chairperson: **A. Cummings** *IRELAND*

- 08.30 **D. Lopes, T. Loureiro, R. Carreira, S. Barros, J. Cardoso, I. Machado, N. Campos** *PORTUGAL*
Femtosecond laser arcuate incisions for correction of astigmatism in patients undergoing cataract surgery: transepithelial vs intrastromal
- 08.36 **H. Kraker, B. Baca, E. Businaro, H. Studer, V. Steiner, K. Motloch, H. Reitsamer** *AUSTRIA*
Analysis of corneal astigmatism correction by femtosecond laser intrastromal arcuate incisions following calculations by the computer software Optimeyes for predicting changes in corneal topography
- 08.42 **S. Demyanchenko, M. Okuneva, A. Tereschenko, I. Trifanenkova, M. Vlasov, M. Timofeev, E. Vishnyakova** *RUSSIA*
Refractive outcomes after topographically oriented arcuate keratotomy during cataract surgery using the VERION system
- 08.48 **H. Noh, T. Chung, J. Kim, D. Paik, D. Lim, K. Shin, Y. Yoo** *SOUTH KOREA*
Comparison between femtosecond laser-assisted astigmatic keratotomy and toric intraocular lens implantation for correcting astigmatism
- 08.54 **D. Visco, W. Hill, Y. Mckee** *USA*
Safety and effectiveness of a novel femtosecond laser-assisted capsular marking system for the alignment of toric IOLs: a prospective study
- 09.00 Discussion
- 09.08 **A. Day, M. Wilkins** *UK*
Randomised single-masked non inferiority trial of femtosecond laser-assisted vs manual phacoemulsification cataract surgery for adults with visually significant cataract: the FACT trial
- 09.14 **S. Park, J. Lee, W. Song, H. Chung, J. Kim, M. Kim, H. Tchah** *SOUTH KOREA*
Femtosecond laser-assisted cataract surgery vs conventional phacoemulsification: refractive and aberrometric outcomes with a multifocal intraocular lens
- 09.20 **C. Somavilla Bueno, A. Arteaga, M. Cortina, J. De la Cruz** *USA*
Benefits of femtosecond laser-assisted cataract surgery in complex cases during the cataract surgery learning curve: seven years' follow-up

09.30 – 11.00

PRESENTED POSTER SESSION

FLACS & Surgical Devices

Poster Village: Pod 1

Facilitators: **M. Shajari** *GERMANY*
G. Steinwender *AUSTRIA*

- 09.26 **I. Belonozhenko, E. Sorokin** *RUSSIA*
Remote results of comparing two techniques: femtosecond phacoemulsification and standard phacoemulsification in cataract surgery complicated by the weakness of the zonular support of the lens
- 09.32 **S. Yaguchi, H. Bissen-Miyajima, K. Minami** *JAPAN*
Experimental comparison between femtosecond laser-assisted and manual capsulotomy for eyes with zonular dehiscence
- 09.38 Discussion
- 09.46 **D. Cao, Y. Wang** *USA*
Comparison of efficacy and practicality of laser in cataract surgery using two femtosecond laser platforms
- 09.52 **Y. Chuang, B. Lin, P. Lin** *TAIWAN*
Comparison of the surgical outcomes between two femtosecond laser cataract platforms
- 09.58 **Y. Wang, B. Chen, X. Li, Q. Tan, H. Li, Y. Xu** *CHINA*
Comparison of the operability and clinical effects of the contact and liquid immersed femtosecond laser platforms
- 10.04 **H. Mansoor, Y. Liu, Y. Wong, N. Lwin, X. Seah, J. Mehta** *SINGAPORE*
The evaluation of femtosecond laser-assisted anterior capsulotomy in the presence of ophthalmic viscoelastic devices (OVDs)
- 10.10 **K. Yamazaki, R. Kimoto, Y. Shibata, J. Yoneyama, T. Hayashi, T. Mimura, H. Takahashi** *JAPAN*
Differentiation between anterior segment images of femtosecond laser-assisted and manual cataract surgery utilising artificial intelligence
- 10.16 **R. Malik, M. Sachdev, H. Gupta** *INDIA*
Intraoperative 3D high-resolution OCT to detect pre-existing posterior capsular defect in patients with posterior polar cataract undergoing femtosecond laser-assisted cataract surgery
- 10.22 Discussion
- 10.30 End of session

- 09.30 **M. Pastore, R. D'Aloisio, A. Bova, T. Candian, D. Tognetto** *ITALY*
Intraoperative parameters between femtosecond laser-assisted cataract surgery and conventional phacoemulsification surgery
- 09.35 **S. Mariacher, J. Wendelstein, M. Mariacher, M. Bolz, P. Laubichler** *AUSTRIA*
Preoperative intraocular pressure is a stronger predictive factor than the vacuum level for intraocular pressure rise during suction in femtosecond laser-assisted cataract surgery
- 09.40 **S. Vasavada, V. Vasavada, A. Vasavada, V. Vaishnav, P. Patel** *INDIA*
Comparison of femtosecond laser-assisted and manual phacoemulsification cataract surgery by junior surgeons: a randomised, clinical trial
- 09.45 **T. Patel, C. Gunasekera, U. Hussain, R. Aggarwal, H. Kasaby** *UK*
A comparison of subjective patient discomfort during femtosecond laser-assisted and conventional cataract surgery
- 09.50 **V. Blázquez Sánchez, S. Bueno Fernández, L. Álvarez-Rementería Capelo, M. García-González, J. García Pérez, J. Gros-Otero** *SPAIN*
Changes in post-surgical recovery after cataract surgery with two different femtosecond laser platforms
- 09.55 **J. Febbraro, H. Picard, D. Gatinel, L. Salomon** *FRANCE*
Clinical evaluation of O-US probe during FLACS for dense cataracts
- 10.00 **J. Martinez Toldos, J. Martínez-Toldos, A. Navarro-Navarro, C. Fernández-Martínez** *SPAIN*
Femtosecond laser-assisted cataract surgery without explantation of pre-pupillary iris-claw lens
- 10.05 **M. Shajari, C. Kolb, K. Petermann, W. Mayer, S. Priglinger, T. Kohnen** *GERMANY*
Comparison of femtosecond laser-assisted cataract surgery and conventional cataract surgery: a meta-analysis and systematic review, 2019 update
- 10.10 **P. Stodulka, M. Sramka** *CZECH REPUBLIC*
First results of new robotic arm femtomatrix laser for cataract surgery
- 10.15 **A. Tamaoki, T. Kojima, A. Hasegawa, M. Yamamoto, T. Kaga, K. Tanaka, K. Ichikawa** *JAPAN*
Accuracy of axial length measurement using enhanced retina visualisation mode of swept-source optical coherence tomography biometer in dense cataract

09.30 – 11.00

PRESENTED POSTER SESSION

Spotlight on Cornea

Poster Village: Pod 2

Facilitators: J. Alio del Barrio *SPAIN*
A. Panico *ITALY*

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|--|---|
| <p>10.20 P. Hoffmann <i>GERMANY</i>
Performance of raytracing, artificial intelligence and paraxial optics formulae for IOL calculation in very short eyes</p> <p>10.25 K. Gundersen <i>NORWAY</i>
Cataract surgery performed with a 3D visualization system (NGenuity – Alcon): learning curve, challenges and clinical experience over one year and more than 1,000 surgeries</p> <p>10.30 M. Chaperon, H. El Chehab, A. Levron, R. Chudzinski, E. Agard, C. Dot <i>FRANCE</i>
Preliminary refractive results of the Clareon® intraocular lens: about 200 cases</p> <p>10.35 K. Ichikawa, T. Kojima, M. Mitamura, R. Horai, Y. Tanaka, T. Nakamura, K. Ichikawa <i>JAPAN</i>
Comparison of histology by four types of anterior capsulotomy methods</p> <p>10.40 R. Zúñiga Iracheta, L. Izquierdo, M. Camino, J. Camargo, K. Ruiz-Montenegro, C. Maldonado, M. Henriquez <i>PERU</i>
Effectiveness of axial length measurement acquisition using three different biometers in mature cataracts</p> <p>10.45 G. Nemeth <i>HUNGARY</i>
First experiences with intraocular lens calculation using no biometric formulas</p> <p>10.50 H. Uy, K. Kenyon <i>PHILIPPINES</i>
Multicenter results of a novel polyurethane hinged pupil expansion device for the management of small pupils during cataract surgery</p> <p>10.55 B. Kusa, M. Piovella <i>ITALY</i>
Routine adoption of thermal pulsation treatment for MGD to improve quality of vision after cataract surgery</p> <p>11.00 End of session</p> | <p>09.30 A. Vasquez Perez, V. Kit, S. Tuft <i>UK</i>
Spontaneous total Descemet's membrane detachment nine years after penetrating keratoplasty for keratoconus</p> <p>09.35 A. Vega-Estrada, E. Espla, A. Martinez, J. Alió <i>SPAIN</i>
Ten years' follow-up after intracorneal ring segment implantation for keratoconus treatment</p> <p>09.40 J. Titiyal, M. Kaur, F. Shaikh <i>INDIA</i>
Comparative evaluation of visual quality in DMEK and ultra-thin DSAEK and correlation with lenticule thickness</p> <p>09.45 J. Parker, J. Parker, M. Heersink, G. Melles <i>USA</i>
Clinical outcomes of Descemet's membrane endothelial keratoplasty in eyes with previous radial keratotomy</p> <p>09.50 S. Trufanov, E. Salovarova, I. Novikov <i>RUSSIA</i>
Corneal density analysis in estimation of patients' corneal status after different modifications of endothelial keratoplasty</p> <p>09.55 M. Hernandez Diaz, E. Alfonso, M. Roig, E. Fernandez, R. Araujo, S. Montolio, C. Peris <i>SPAIN</i>
Corneal remodelling and refractive changes in adolescent patients with keratoconus after intracorneal ring segments implantation</p> <p>10.00 R. Moussa <i>EGYPT</i>
Corneal tattooing using liquid ink through adjustable lamellar intrastromal pocket</p> <p>10.05 P. Laubichler, P. Jirak, M. Bolz, S. Mariacher <i>AUSTRIA</i>
Femtosecond laser-assisted anterior lamellar keratoplasty using the VICTUS femtosecond laser</p> <p>10.10 M. Dickman, S. Dunker, S. Tang, B. Winkens, R. Nuijts <i>THE NETHERLANDS</i>
Practice patterns and long-term outcomes of corneal transplantation for infectious keratitis: a Dutch registry study</p> <p>10.15 M. Yusuf, B. Umerji, S. Biswas, V. Sharma <i>UK</i>
A study looking at the clinical utility of a novel medication-scoring system in children with vernal keratoconjunctivitis</p> <p>10.20 E. Sarnicola, R. Protti, C. Panico <i>ITALY</i>
Cenegermin for neurotrophic keratopathy: a small case series</p> <p>10.25 F. Cremona, F. Lucero Saa, P. Rinaudo, E. Paez Soria, T. Francisco, P. Chiaradia <i>ARGENTINA</i>
Clinical findings in patients with ocular rosacea</p> |
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09.30 – 11.00



PRESENTED POSTER SESSION

New & Interesting I

Poster Village: Pod 3

Facilitators: **B. Bostanci Ceran** *TURKEY*
N. Yesilirmak *FRANCE*

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|-------|--|-------|--|
| 10.30 | M. Nikandish, M. Hanafi-Bojd <i>IRAN</i>
Comparative study of the efficacy of nano-tacrolimus and cyclosporine eye drops in patients with dry eye | 09.30 | J. Gilmour-White, T. Richardson <i>UK</i>
Audit: quality of cataract surgery listing and preoperative assessment documentation |
| 10.35 | B. AlQahtani, S. AlSwailem, R. Khandekar <i>SAUDI ARABIA</i>
Corneal myxoma: presentation, histopathology and management – a case series | 09.35 | I. Bayer, M. Shajari, S. Priglinger, W. Mayer, E. Vounotrypidis <i>GERMANY</i>
Changes of parameters for IOL calculation for patients after combined phacovitrectomy with ILM-peeling |
| 10.40 | S. Tavassoli, N. Wong, K. Darcy <i>UK</i>
Hyperbaric oxygen results in the improvement of corneal oedema: a case report | 09.40 | S. Choi <i>SOUTH KOREA</i>
Comparison of argon green laser and high-frequency radio-wave electrosurgery for conjunctivochalasis |
| 10.45 | P. Agarwal, S. Navon <i>UAE</i>
Importance of clinical signs leading to the diagnosis in a case of microbiological smear negative ocular microsporidiosis | 09.45 | G. Laurinavičiūtė, D. Petroška, V. Bartuškienė, S. Galgauskas, R. Šimkūnaitė-Rizgelienė, J. Tutkuvienė <i>LITHUANIA</i>
Evaluation of retinal macroglia and thickness in rats: maternal undernutrition model |
| 10.50 | I. Canas Zamarra, M. Gimeno Carrero, B. Sarmiento Torres, M. De Uña Iglesias <i>SPAIN</i>
Improvement of corneal opacity in Morquio's disease with elosulfase-α: a case report | 09.50 | G. Karastatiras, S. Malka, A. Webster, M. Moosajee <i>GREECE</i>
Update on non-retinal genetic eye disease patients recruited from a single centre into the UK 100,000 Genomes Project |
| 10.55 | Discussion | 09.55 | F. D'Oria, M. Bordinone, T. Rizzo, P. Puzo, R. Favale, S. Guerriero, G. Alessio <i>ITALY</i>
Validation of a new system for triage of ophthalmic emergencies: the Alphabetical Triage Score for Ophthalmology (ATSO) |
| 11.00 | End of session | 10.00 | F. Akritidou, S. Karachrisaphy, S. Roumelis, A. Karachalios, C. Karagiannidis, T. Papamitsou, A. Sioga <i>GREECE</i>
Alterations of anterior lens epithelium in pseudoexfoliation syndrome |
| | | 10.05 | E. Alfonso Muñoz, S. Montolio-Marzo, M. Hernández Díaz, J. Davó-Cabrera, J. Pía-Ludeña, M. Roig Revert, C. Peris Martínez <i>SPAIN</i>
Anatomical pathology in corneal ectasias: layer-by-layer study |
| | | 10.10 | J. Park, S. Yang, M. Park, S. Baek <i>SOUTH KOREA</i>
Dry eye syndrome in thyroid eye-disease patients: the role of increased incomplete blinking and Meibomian gland loss |
| | | 10.15 | N. Mohamed, A. Rothwell, P. Hossain <i>UK</i>
Evaluating the readability and quality of online cataract surgery patient information |
| | | 10.20 | M. Vieversyte, L. Kuzmiene <i>LITHUANIA</i>
Evaluation of macular, ganglion cell complex and choroidal thickness in eyes with pseudoexfoliation syndrome |

- 10.25 **M. Yamada, M. Kawashima, Y. Hiratsuka, T. Nakano, H. Tamura, K. Ono, S. Inoue** *JAPAN*
Assessment of physical inactivity and locomotor dysfunction in adults with visual impairment
- 10.30 **N. Dergacheva, I. Medvedev, D. Pokrovskiy** *RUSSIA*
Clinical results of 3D virtual occlusion in patients with refractive and anisometropic amblyopia
- 10.35 **T. Verdina, F. Stiro, C. Ferrari, F. Bruni, G. Cavallini** *ITALY*
Evaluation of the effect of cataract surgery on cognitive function in very elderly patients
- 10.40 **A. Koshy, R. Shetty, L. Kaweri, G. Kundu** *INDIA*
Dysfunctional lens index: the future of refractive lens surgery?
- 10.45 **M. Kasikci** *TURKEY*
Comparison of sweep VEP visual acuity and Snellen visual acuity in healthy and amblyopic children
- 10.50 **M. Henriquez, S. Arba Mosquera, J. Camargo, R. Zuñiga, K. Ruiz-Montenegro, M. Camino, L. Izquierdo Jr** *PERU*
Comparison of the quality of vision using double-pass technique in eyes with corrected refractive errors and emmetropic eyes
- 10.55 **A. Azimi, S. Bamdad** *IRAN*
The relationship between tear film osmolarity and dry-eye symptoms in patients with type 2 diabetes: a comparison between the conventional methods of dry-eye assessment and the TearLab system
- 11.00 End of session

10.30 – 12.30

INSTRUCTIONAL COURSES

- IC80*** **Measuring, marking and managing astigmatism in cataract surgery and RLE: all you need to know (I)**
R. Nuijts *THE NETHERLANDS*, J. Alfonso *SPAIN*, O. Findl *AUSTRIA*, T. Kohnen *GERMANY*, D. Koch *USA*, N. Bauer *THE NETHERLANDS*, N. Visser *THE NETHERLANDS*
South 2
- IC81** **Glaucoma surgery, TRABS, NPGS and MIGS for the cataract surgeon (I)**
C. Mehta *INDIA*, K. Mehta *INDIA*, G. Scharioth *GERMANY*, K. Mansouri *SWITZERLAND*, I. Ahmed *CANADA*, A. Mermoud *SWITZERLAND*
South 3
- IC82** **Strategies and techniques for IOL exchange (A)**
M.J. Tassignon *BELGIUM*, S. Masket *USA*, V. Pfeifer *SLOVENIA*, G. Auffarth *GERMANY*
South 4
- IC83** **Corneal biomechanics for the clinician: understanding the basics (I)**
C. Roberts *USA*, J. Hjortdal *DENMARK*, P. Vinciguerra *ITALY*, R. Vinciguerra *ITALY*, W.J. Dupps *USA*, F. Faria Correia *PORTUGAL*
South 6
- IC85** **Mastering small aperture intraocular implants: irregular astigmatism, depth-of-focus extension, multifocal IOL dissatisfaction and iris defects (A)**
C. Trindade *BRAZIL*, B. Trindade *BRAZIL*, F. Trindade *BRAZIL*, R. Zaldivar *ARGENTINA*, L. Werner *USA*, S. Srinivasan *UK*
West 1

* Wetlab Pre-Requisite (A) Advanced (B) Basic (I) Intermediate
Handouts available at www.es CRS.org

10.30 – 11.00

ESCRS HERITAGE LECTURE 2019

Auditorium

10.30 **B. Cochener-Lamard** *FRANCE (PRESIDENT, ESCRS)*
Introduction

10.35 **D. Spalton** *UK*
The Origins of Cataract Surgery



11.00 End of session

11.00 – 13.00

MAIN SYMPOSIUM

Artificial Intelligence in Ophthalmology

Auditorium

Chairpersons: **B. Cochener-Lamard** *FRANCE*
G. Kleinmann *ISRAEL*

11.00 **B. O'Sullivan** *IRELAND*
(PROFESSOR OF CONSTRAINT PROGRAMMING)
Ethics and artificial intelligence

11.15 **A. Loewenstein** *ISRAEL*
Artificial intelligence in age-related
macular degeneration

11.30 Discussion

11.40 **X. Zhang** *CHINA*
Artificial intelligence in the diagnosis of glaucoma

11.55 **G. Quellec** *FRANCE (PHD BIOMEDICAL ENGINEERING)*
Generalization to other pathologies and
imaging devices

12.10 Discussion

12.20 **D. Azar** *USA*
Smart lenses to compensate accommodation loss

12.35 **B. Nelson** *SWITZERLAND*
(PROFESSOR OF ROBOTICS AND INTELLIGENT SYSTEMS)
Robotization in eye surgery

12.50 Discussion

13.00 End of session

MONDAY 16 SEPTEMBER

12.15 – 13.00

ORBIS FREE PAPER SESSION

Treatment & Prevention of Blindness in the Developing World

West 7

Chairperson: **R. Walters** *UK*

- 12.15 **N. Jiraskova, L. Hejsek, L. Kvasnickova** *CZECH REPUBLIC*
Cataract surgery in Syrian refugees: the MEDEVAC Programme
- 12.21 **R. Bahitbek, J. Iskakbayeva, N. Aldasheva, M. Erboluly** *KAZAKHSTAN*
Frequency and structure of refractive errors in schoolchildren with different visual loads
- 12.27 **A. Jossy, N. Kasturi, R. Babu K, S. Parchand** *INDIA*
Refractive outcomes following laser photocoagulation with frequency-doubled Nd:YAG laser (532 nm green laser) in severe retinopathy of prematurity
- 12.33 **A. Vardhan, L. Pooludaiyar, V. Kumar, S. Kumar, K. Raja, T. Ravilla** *INDIA*
High cataract surgical rate and universal eye-care delivery model for elimination of cataract blindness in the Theni district of India
- 12.39 **P. Subudhi, S. Patro, B. Subudhi** *INDIA*
Resident-performed sutureless manual small incision cataract surgery (MSICS): outcomes and pertinence in the developing world
- 12.45 **A. Hipsley, B. Hall, S. Shah** *USA*
A health promotion model for the prevention of age-related blindness with specific emphasis on low-income countries
- 12.51 Discussion
- 13.00 End of session

14.00 – 16.00

SURGICAL VIDEO SESSION

Getting Into Trouble? When Cataract Surgery Goes Wrong: How to Deal With it

Auditorium

Chairpersons: **K. Vannas** *FINLAND*
R. Packard *UK*

- Case 1: **A. Panico** *ITALY*
Dashed femto-rhexis
- Case 2: **A. Crnej** *SLOVENIA*
Eventful cataract surgery
- Case 3: **L. Buratto** *ITALY*
FLACS
- Case 4: **A.K. Tourkman** *UK*
Argentinian flag syndrome and posterior capsular rupture: is phaco still achievable?
- Case 5: **P. Ursell** *UK*
Winnie the Pooh gets stuck in a hole, how do his friends get him out?
- Case 6: **R. Parkash** *INDIA*
Absorbed sclerotic cataract with zonular dehiscence
- Case 7: **D. Holland** *GERMANY*
From stress to normality in FLACS with FEMTIS IOL
- Case 8: **A. Assaf** *EGYPT*
Mild lens subluxation
- Case 9: **A. Prinz** *AUSTRIA*
White cataract case
- Case 10: **S. Daya** *UK*
That was not supposed to happen



Send your questions to the chairpersons via the 'ESCRS Paris 2019' app

14.00 – 16.00

FREE PAPER SESSION

Extended-Depth-Of-Focus IOLs II

Free Paper Forum: Podium 1

Chairperson: J. Rozenbaum *FRANCE*

Co-Chairperson: N. Hirnschall *AUSTRIA*

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|---|---|
| <p>14.00 D. Teenan, J. Schallhorn, S. Schallhorn, S. Hannan <i>UK</i>
Early postoperative outcomes of bilateral implantation of an extended-depth-of-focus IOL in a large series</p> <p>14.06 M. Guarro, J. Pedrell, C. Peris, J. Álvarez de Toledo Elizalde, F. Poyales <i>SPAIN</i>
Clinical outcomes of a new extended-vision intraocular lens implanted by Spanish surgeons</p> <p>14.12 R. Lucchesi, F. Kretz, I. Kaiser, C. Herbers, J. Winters, M. Moftah, S. Abdassalam <i>GERMANY</i>
Clinical evaluation of functional visual acuity after implantation of a monofocal extended-depth-of-focus intraocular lens with an addition of +1.25 dpt</p> <p>14.18 R. Ruiz-Mesa, U. Bhatt, H. Kasaby, T. Rabinovitch, J. Lemp-Hull <i>SPAIN</i>
Multi-country functional vision outcomes of a new non-diffractive extended-vision intraocular lens</p> <p>14.24 Discussion</p> <p>14.30 B. Acar, S. Acar <i>TURKEY</i>
Comparison between bilateral implantation of a trifocal intraocular lens and blended implantation of an extended-depth-of-focus intraocular lens with a diffractive trifocal intraocular lens</p> <p>14.36 B. Kashyap, B. Kashyap, B. Kashyap, N. Gajendragadkar <i>INDIA</i>
Comparative analysis of visual outcomes, quality of vision, spectacle independence and patient satisfaction in patients with bilateral implantation of diffracting trifocal IOLs and extended-range-of-vision IOLs in the Indian population</p> <p>14.42 D. Rathod, S. Ganesh, S. Brar <i>INDIA</i>
Clinical outcomes and quality of vision following bilateral implantation of a new extended-depth-of-focus (EDOF) intraocular lens</p> <p>14.48 H. Zwickl, M. Ruiss, J. Hienert, N. Hirnschall, O. Findl <i>AUSTRIA</i>
Comparison of visual performance of two different extended-depth-of-focus (EDOF) IOLs</p> <p>14.54 Discussion</p> <p>15.00 I. Matthäi, F. Rüfer, T. Herbst, D. Holland <i>GERMANY</i>
Prospective study after bilateral implantation in FLACS of a rhexis-fixed EDOF IOL to investigate visual acuity PCO and centration: first results up to six months postoperatively</p> | <p>15.06 J. Costa, M. João, N. Franqueira, F. Faria Correia, T. Monteiro <i>PORTUGAL</i>
Visual performance of the monofocal EDOF Santen Xact® intraocular lens after cataract surgery</p> <p>15.12 K. Kim, O. Koo, J. Park <i>SOUTH KOREA</i>
Visual performance and patient satisfaction after implantation of TECNIS Symphony® extended-range-of-vision IOLs: bilateral implantation vs two different mix and match approaches</p> <p>15.18 K. Nakamura, H. Bissen-Miyajima, Y. Ota, M. Hirasawa, K. Minami <i>JAPAN</i>
Binocular visual performance after implantation of intraocular lens targeting emmetropia and slight myopia</p> <p>15.24 Discussion</p> <p>15.30 M. Sevik, S. Akkaya Turhan, E. Toker <i>TURKEY</i>
Near visual acuity and reading performance with low add bifocal and extended-depth-of-focus intraocular lenses implanted with mini-monovision</p> <p>15.36 M. Jackson, A. Edmiston <i>USA</i>
Refractive targets and visual outcomes in patients implanted with extended-depth-of-focus IOLs after cataract surgery</p> <p>15.42 P. Cecchini, R. Giglio, G. Turco, D. Tognetto <i>ITALY</i>
Extended-depth-of-focus and new-generation higher-order aspheric monofocal intraocular lenses: profilometry and morphology</p> <p>15.48 C. Isanta Otal, F. Bartol-Puyal, G. Giménez Calvo, I. Altemir, J. Larrosa, V. Polo, L. Pablo <i>SPAIN</i>
Corneal and extraocular factors influencing defocus curve</p> <p>15.54 Discussion</p> <p>16.00 End of session</p> |
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14.00 – 16.00

FREE PAPER SESSION

Keratoconus

Free Paper Forum: Podium 2

Chairperson: J. Güell *SPAIN*

Co-Chairperson: J. Murta *PORTUGAL*

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| <p>14.00 H. Studer, T. Koller, M. Jankov, E. Businaro, T. Seiler <i>SWITZERLAND</i>
Finite element simulation of tomographic parameters of keratectasia</p> <p>14.06 S. Alswailem, A. Albahlal, A. Alqassimi <i>SAUDI ARABIA</i>
Keratoconus in Asian children</p> <p>14.12 J. Parker, K. van Dijk, R. Birbal, S. Oellerich, I. Dapena, G. Melles <i>USA</i>
Are Descemet's membrane ruptures the root cause of corneal hydrops in keratoconic eyes?</p> <p>14.18 S. Watson, A. Ferdi, V. Nguyen, M. Abbondanza, F. Arnalich Montiel, M. Garcia, Y. Kerdraon <i>AUSTRALIA</i>
Treatment outcomes data in keratoconus from routine clinical practice collected via the Save Sight Keratoconus Registry</p> <p>14.24 Discussion</p> <p>14.30 F. Hafezi, N. Hafezi, F. Gilardoni, J. Randleman, L. Kollros, M. Hillen, E. Torres-Netto <i>SWITZERLAND</i>
Assessment of the mechanical forces applied during eye rubbing</p> <p>14.36 A. Cunha, P. Correia, L. Torrão, R. Moreira, F. Falcão-Reis, J. Pinheiro-Costa <i>PORTUGAL</i>
Novel tomographic determinants of keratoconus progression: keratoconus area</p> <p>14.42 J. Randleman, O. Golan, A. Piccinini, S. Khandelwal <i>USA</i>
Distinguishing highly-asymmetric keratoconus eyes using dual Scheimpflug/Placido analysis</p> <p>14.48 M. Henriquez, R. Zúñiga Iracheta, M. Camino, K. Ruiz-Montenegro, J. Camargo, C. Maldonado, L. Izquierdo <i>PERU</i>
Comparison of the variability of Scheimpflug imaging measurements between normal eyes, progressive and non-progressive keratoconus eyes at one year of follow-up</p> <p>14.54 Discussion</p> <p>15.00 R. Ambrosio Jr <i>BRAZIL</i>
Optimised artificial intelligence for integrating Scheimpflug tomography and biomechanics for enhanced ectasia detection</p> <p>15.06 M. Ziaei, A. Gokul, H. Valleria, D. Patel, C. McGhee <i>UK</i>
Topographic, keratometric, refractive and wavefront changes attributable to epithelial removal in keratoconus</p> | <p>15.12 E. Pedrotti, E. Bonacci, T. Cozzini, J. Bonetto, T. Merz, P. Talli, G. Marchini <i>ITALY</i>
Twelve months' follow-up of intrastromal keratoplasty: new perspectives for the treatment of keratoconus</p> <p>15.18 A. Rosa, M. Raimundo, C. Azenha, J. Gil, C. Tavares, P. Barbeiro <i>PORTUGAL</i>
Grading keratoconus progression using a novel decision-support software tool: an agreement analysis</p> <p>15.24 Discussion</p> <p>15.30 P. Khamar, R. Shetty, A. Ghosh, N. Kumar <i>INDIA</i>
Can unknown microbiomes drive keratoconus and cross-linking outcomes?</p> <p>15.36 D. Godefrooij, S. Roohé, R. Wisse <i>THE NETHERLANDS</i>
The independent effects of various cross-linking treatment modalities on treatment effectiveness in keratoconus</p> <p>15.42 S. Wahba, M. Roshdy, A. Hashem, A. Elawamry, B. Aziz <i>EGYPT</i>
Diagnostic accuracy of different keratoconus detection indices of rotating Scheimpflug camera in paediatric eyes</p> <p>15.48 D. Smadja, D. Chen, B. Chiu, M. Santhiago, A. Abulafia, D. Zadok, J. Young <i>ISRAEL</i>
Comparison of machine learning algorithms in diagnosis of subclinical keratoconus</p> <p>15.54 Discussion</p> <p>16.00 End of session</p> |
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14.00 – 16.00

FREE PAPER SESSION

LASIK & PRK II

Free Paper Forum: Podium 3

Chairperson: V. Katsanevaki *GREECE*

Co-Chairperson: B. Allan *UK*

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| <p>14.00 B. Lin, Y. Chuang, P. Lin <i>TAIWAN</i>
Sub-Bowman flap 85 micron laser in situ keratomileusis: pilot study interim results</p> <p>14.06 M. Zagrebneva <i>RUSSIA</i>
Correction of myopia and myopic astigmatism using Wavelight EX 500 Contoura</p> <p>14.12 A. Kopylov, I. Syrykh, O. Fabrikantov <i>RUSSIA</i>
The efficacy of Femto-LASIK surgery in hypermetropia</p> <p>14.18 A. Doga, I. Mushkova, A. Karimova, E. Kechin <i>RUSSIA</i>
Customised vs conventional Femto-LASIK procedures in low-to-moderate myopia: comparative analysis of the visual outcomes</p> <p>14.24 W. Zhou, A. Stojanovic <i>NORWAY</i>
Correction target for astigmatism in topography-guided ablation and toric intraocular lens exchange in eyes with coma-dominant corneal optics</p> <p>14.30 D. Chen, N. Lu, S. Chen, Q. Wang <i>CHINA</i>
Comprehensive assessment of repeatability for corneal epithelial thickness measurement with spectral-domain optical coherence tomography in myopia and post-keratorefractive surgery eyes</p> <p>14.36 F. Tzani, A. Kanellopoulos <i>GREECE</i>
Topography-modified refraction (TMR): partial to total adjustment of treated cylinder amount and axis provided by topography data measured vs using the standard clinical refraction in myopic topography-guided LASIK</p> <p>14.42 P. Drake-Rodriguez Casanova, I. Rodriguez, S. Rodrigo, P. Cañadas, A. Parafita, J. Gros, M. Teus <i>SPAIN</i>
A comparative study of mechanical microkeratome vs femtosecond laser in early re-treatment after laser in situ keratomileusis (LASIK)</p> <p>14.48 Discussion</p> <p>15.00 B. Moscovici, P. Rymer, R. Gomes, M. Campos, P. Schor <i>BRAZIL</i>
PRK pain and symptoms: mechanical de-epithelization vs transepithelial ablation</p> <p>15.06 G. Zhao, C. Zhang, J. Tang, R. Li, L. Lei, C. Feng <i>CHINA</i>
The effect of 0°C BSS on haze in TransPRK surgery</p> <p>15.12 K. Doctor, S. Krishnamurthy, A. Kulkarni <i>INDIA</i>
Evaluation of induced higher-order aberrations (HOAs) in individuals with moderate myopia and moderate myopic astigmatism in corneal wavefront-guided trans-epithelial PRK by Smart Pulse technology</p> | <p>15.18 N. Rybarova, E. Vlková <i>SLOVAKIA</i>
Long-term results of LASIK after penetrating keratoplasty</p> <p>15.24 M. Arbelaez, J. Arbelaez, S. Arba Mosquera <i>OMAN</i>
12 years' correction of high astigmatism (>2.5D) with an aspheric ablation profile: results for the AMARIS since 2007</p> <p>15.30 H. Kandil <i>EGYPT</i>
Transepithelial photorefractive keratectomy for myopic retreatments after laser in situ keratomileusis</p> <p>15.36 A. Covello, S. Holland, D. Lin, S. Arba Mosquera, V. Shwetabh, M. Al Obthani, J. Tan <i>CANADA</i>
Outcomes of photorefractive keratectomy with advanced beam profile for myopia</p> <p>15.42 D. Lin, S. Holland, A. Covello, S. Arba Mosquera, V. Shwetabh, J. Hodgen, J. Tan <i>CANADA</i>
Immediate visual recovery after photorefractive keratectomy with new laser beam profile</p> <p>15.48 Discussion</p> <p>16.00 End of session</p> |
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14.00 – 16.00

FREE PAPER SESSION

Anterior Segment Imaging

Free Paper Forum: Podium 4

Chairperson: S. Srinivasan *UK*

Co-Chairperson: M. Puech *FRANCE*

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| 14.00 | M. Shajari, R. Sonntag, W. Mayer, G. Steinwender, S. Priglinger <i>GERMANY</i>
Repeatability and validity of total corneal power measurements (TrueK) with a new optical biometer (IOLMaster 700) | 15.00 | X. Wang, J. Dong, Y. Zhang, S. Zhang, B. Sun <i>CHINA</i>
Comparison of different diameter zone corneal power measurement centered on pupil and corneal apex using Scheimpflug tomography |
| 14.06 | B. Cochener-Lamard, F. Arzel, A. Cassan <i>FRANCE</i>
Evaluation of a new platform for quantifying the ocular surface | 15.06 | Discussion |
| 14.12 | E. Yassa, C. Ünlü, T. Kurt <i>TURKEY</i>
Repeatability of non-invasive tear break-up time measurements obtained with the Sirius eye anterior segment analyser | 15.12 | A. Molina-Martín, D. Piñero, M. Caballero, V. Camps, D. de Fez, H. Fukumitsu <i>SPAIN</i>
Comparison of anterior corneal curvature and astigmatism parameters provided by three different devices |
| 14.18 | I. Radman, I. Krolo, A. Kasumović, M. Malenica Ravlić, K. Lončarić, Z. Vatauvuk <i>CROATIA</i>
The effects of eye-rubbing on the axial length, anterior chamber depth, tear film break-up time and the front eye segment parameters | 15.18 | P. Paritekar, R. Shetty, A. Sinha Roy, C. Rachana, G. Kundu <i>INDIA</i>
Bowman's layer topography: comparing virtual values vs manual measurement |
| 14.24 | D. Chen, Y. Yu, D. Tolley, Y. Ho, J. Lee, C. Yen, C. Tan <i>SINGAPORE</i>
Using a novel portable smartphone slit lamp prototype to assess anterior chamber depth | 15.24 | S. Mehta, G. Chaudhary, N. Shroff, G. Singh, A. Gupta <i>INDIA</i>
Correlation of nuclear density using Pentacam Scheimpflug imaging and nuclear opalescence (NO) score of LOCS III classification with phacodynamic parameters in age-related cataract in Indian eyes |
| 14.30 | Discussion | 15.30 | A. Pujari, N. Sharma, J. Urkude, R. Singh, R. Mukhija <i>INDIA</i>
Assessment of posterior capsular integrity on modified OCT: the conical sign of posterior capsular dearth |
| 14.36 | D. El-Fayoumi, G. Gawdat, A. Esmael, W. Abdeen <i>EGYPT</i>
Anterior chamber angle features in primary congenital glaucoma using hand held anterior-segment OCT | 15.36 | R. Mukhija, N. Sharma, A. Kishore, T. Makwana, N. Gupta, A. Pujari <i>INDIA</i>
Simple innovations in refractive surgery: modified techniques to measure implantable collamer lens (ICL) vault |
| 14.42 | I. Potapenko, M. Alberti, M. la Cour, J. Cabrerizo <i>DENMARK</i>
Assessment of anterior chamber inflammation by objective anterior SSOCT image analysis | 15.42 | Discussion |
| 14.48 | V. Chatzistergiou, A. Tzamalís, A. Diafas, I. Oustoglou, I. Tsinopoulos, N. Ziakas <i>SWITZERLAND</i>
Repeatability of corneal pachymetry and epithelial thickness measurements acquired with spectral-domain optical coherence tomography in subjects with prolonged computer use | 16.00 | End of session |
| 14.54 | N. Mohr, D. Krause, N. Luft, M. Shajari, W. Mayer, S. Priglinger <i>GERMANY</i>
Reliability of corneal, epithelial and stromal thickness mapping for a 9 mm zone using spectral-domain optical coherence tomography | | |

14.00 – 15.00

MODERATED POSTER SESSION

A Bouquet of Topics

Poster Village: Pod 2

Moderators: A. Day *UK*
N. Reus *THE NETHERLANDS*

- 14.00 **J. Panthagani, T. Jenyon, G. Moussa** *UK*
Transient facial nerve palsy following dental anaesthesia
- 14.08 **B. Akova, S. Kivanç** *TURKEY*
Intracapsular infection and calcification secondary to Edwardsiella tarda infection
- 14.16 **L. Daniel Ponniah, H. Anandan** *INDIA*
A novel in situ sustained-release drug-delivery system for infective keratitis
- 14.24 **N. Artells de Jorge, A. Viteri, D. Peña, B. Carrasco, M. Lopez-Galvez, J. Herreras, D. Galarreta** *SPAIN*
Influence of topical dexamethasone on the cytokine levels of aqueous humour during cataract surgery in diabetic patients
- 14.32 **H. Kim, T. Moon, J. Kim, H. Lee** *SOUTH KOREA*
The accuracy of AL-Scan® for ocular biometry before cataract surgery and postoperative astigmatism in tilted disc syndrome patients
- 14.40 **M. Skovron, S. Rykov, L. Tutchenko, S. Patel, O. Horak** *UKRAINE*
Effects of orally-administered Vitamin D on some features of the ocular surface after routine cataract surgery
- 14.48 **C. Chiu, Y. Kuo** *TAIWAN*
Comparison of open-field autorefractor (Shin-Nippon NVision-K 5001), closed-field autorefractor (Topcon KR-800) and retinoscopy in refractive measurement of children and adolescents in Taiwan
- 14.56 Discussion
- 15.00 End of session

14.30 – 15.30

INSTRUCTIONAL COURSES

- IC86 Intrac scleral IOL fixation (A)**
O. Findl *AUSTRIA*, G. Scharioth *GERMANY*, M. Kronschnlaeger *AUSTRIA*
South 2
- IC87 Phacoemulsification cataract surgery in uncooperative pupils (I)**
NEW
T. Wee *SINGAPORE*, R. Yeoh *SINGAPORE*, S.P. Chee *SINGAPORE*
South 3
- IC88 Laser refractive surgery (Young Ophthalmologist Course) (B)**
YO
V. Diakonis *GREECE*, B. Bostanci Ceran *TURKEY*, G. Steinwender *AUSTRIA*, C. Lisa *SPAIN*
South 4
- IC89 Anaesthesia for cataract and refractive surgery (B)**
YO
R. Bellucci *ITALY*, B. Cochener-Lamard *FRANCE*, D. Spalton *UK*, A. Toso *ITALY*
South 6
- IC90 Surgical options in iris reconstructive surgery (I)**
R. Barraquer *SPAIN*, J. Alvarez de Toledo *SPAIN*
West 1
- IC91 How do phaco machines really work? Physics of the fluidics during surgery (B)**
NEW
YO
D. Pusnik *SLOVENIA*, J. Bolger *UK*
West 2
- IC92 Glaucoma surgery for the cataract surgeon: ways to improve your outcomes and to catch up with the latest (I)**
S. Jacob *INDIA*, A. Crandall *USA*, K. Barton *UK*, S. Perera *SINGAPORE*
West 3
- IC93 Improve your scientific skills (B)**
YO
M. Shajari *GERMANY*, W. Mayer *GERMANY*, T. Kohnen *GERMANY*, D. Koch *USA*
West 4
- IC94 Phakic IOL implantation: achieving success and safety (A)**
NEW
A. Ağca *TURKEY*, B. Kose *TURKEY*, Y. Yildirim *TURKEY*
West 5
- IC95 Corneal ulcers and their diagnosis (B)**
NEW
EBO
D. Borroni *ITALY*, A. Esposito *ITALY*, S. Kaye *UK*, V. Romano *UK*, T. Somerville *UK*
West 6

(A) Advanced (B) Basic (I) Intermediate

Handouts available at www.esccs.org

15.00 – 16.00

PRESENTED POSTER SESSION

Toric IOLs

Poster Village: Pod 1

Facilitators: C. Della Guardia *ITALY*
A. Panico *ITALY*

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| <p>15.00 M. Garcia-Gonzalez, L. Alvarez-Rementeria, J. Garcia-Perez, J. Gros-Otero, J. Ruiz-Alcocer <i>SPAIN</i>
Clinical performance and patient satisfaction in patients implanted with a trifocal toric intraocular lens</p> <p>15.05 J. Moon, C. Yoon, M. Kim <i>SOUTH KOREA</i>
Comparative effects of various types of toric intraocular lenses on astigmatism correction</p> <p>15.10 M. Hernandez Diaz, M. Roig, E. Alfonso, E. Fernandez, R. Araujo, S. Montolio, C. Peris <i>SPAIN</i>
Comparison of refractive and visual results of three toric intraocular lenses after cataract surgery</p> <p>15.15 M. Packer, K. Venkateswaran, N. Tiwari, G. Lau, A. Pilon, V. Kolesnitchenko <i>USA</i>
Enhanced vergence-based toric algorithm and its impact on reducing residual refractive error: a retrospective analysis</p> <p>15.20 P. Marti Rodrigo, A. Martinez Palmer, J. Tuñí Picado, E. Segovia Maldonado, J. Armentia Perez de Mendiola <i>SPAIN</i>
Toric intraocular lens vs opposite clear cornea incisions comparison for astigmatism correction in cataract surgery</p> <p>15.25 J. Gros-Otero, L. Alvarez-Rementeria Capelo, J. Garcia-Perez, M. Garcia-Gonzalez, J. Ruiz-Alcocer <i>SPAIN</i>
Validity of automated refraction after trifocal toric intraocular lens implantation</p> <p>15.30 S. Nakano, T. Hiraoka, T. Oshika <i>JAPAN</i>
Comparison of predicted refractive outcomes between two different toric IOL calculation methods</p> <p>15.35 A. Swampillai, N. Habib, A. Khanan Kaabneh, P. Buckhurst <i>UK</i>
Efficacy of state-funded toric intraocular lens implantation in cataract surgery with high corneal astigmatism</p> <p>15.40 S. Kale <i>INDIA</i>
Enhancing surgical outcomes with toric lens implants the markerless way</p> <p>15.45 M. Quiroz Quiroga, A. Matheu Fabra, M. Saint-Gerons Trecu, P. Burgos Fernandez, J. Armentia Perez de Mendiola, C. Pueyo Asensio, A. Herranz Cabarcos <i>SPAIN</i>
Toric intraocular lenses in the real world: rotational performance and visual outcome – does the astigmatism axis matter?</p> | <p>15.50 V. Pfeifer, A. Ursic, M. Schwarzbartl Pfeifer <i>SLOVENIA</i>
Comparison of four IOL calculation approaches with and without a model for the compensation of posterior corneal astigmatism</p> <p>15.55 W. Whang, H. Kim <i>SOUTH KOREA</i>
New IOL calculation formula using corneal asphericity</p> <p>16.00 End of session</p> |
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15.00 – 16.00

PRESENTED POSTER SESSION

Intraocular Refractive Surgery

Poster Village: Pod 2

Facilitators: **N. Makhotkina** *THE NETHERLANDS*
N. Visser *THE NETHERLANDS*

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|-------|---|-------|--|
| 15.00 | H. Kim, J. Huh, S. Choi, Y. Eom, S. Kang, J. Kim, J. Song <i>SOUTH KOREA</i>
Use of the posterior/anterior corneal curvature radii ratio on intraocular lens power calculation in patients with prior myopic laser vision correction | 15.55 | N. Makhotkina, T. Berendschot, M. Aelen, P. Hurks, V. van de Ven, R. Ruiter, R. Nuijts <i>THE NETHERLANDS</i>
The role of working memory and personal traits in adaptation to multifocal optical correction: a pilot study in soft multifocal contact lens users |
| 15.05 | S. Jonker, A. Ronden, T. Berendschot, I. Saelens, N. Bauer, R. Nuijts <i>THE NETHERLANDS</i>
Preoperative simulation of iris-fixated phakic intraocular lenses (IF-pIOLs) does not add a significant benefit in the prediction of endothelial cell (EC) loss in myopic eyes | 16.00 | End of session |
| 15.10 | S. Rachapalle Reddi, P. Padmanabhan <i>INDIA</i>
Lessons learned from unsuspected binocular zonular dehiscence in a high myope causing subluxation of ICL | | |
| 15.15 | J. Cerpa Manito, P. Serra, Á. Sánchez Trancón, O. Torrado, A. Baptista <i>SPAIN</i>
Inter-eye vault differences in bilaterally implanted patients with implantable collamer lenses | | |
| 15.20 | K. Varna-Tigka, T. Kohnen <i>GERMANY</i>
Long axial length, long anterior chamber depth, and small toric ICL implantation: the apparent cause of more than one ICL rotation and residual astigmatism | | |
| 15.25 | B. Choi <i>SOUTH KOREA</i>
Twelve-year follow-up of iris-fixated phakic intraocular lens implantation in Korean patients with myopia | | |
| 15.30 | G. Bianchi <i>ARGENTINA</i>
Diffractive phakic posterior chamber IOL for presbyopia | | |
| 15.35 | S. Hannan, J. Venter, D. Teenan, K. Hettinger <i>UK</i>
Extended-depth-of-focus IOL in patients with previous laser vision correction | | |
| 15.40 | B. Pajic, P. Zakharov <i>SWITZERLAND</i>
User-friendliness of an objective assessment tool, Visual Behavior Monitor (VBM), for monitoring patient lifestyle prior to cataract or refractive surgery | | |
| 15.45 | D. Teenan, J. Venter, K. Hettinger <i>UK</i>
Outcomes of extended-depth-of-focus intraocular lens implantation in a large population of patients | | |
| 15.50 | A. Abdul Hamid, S. Vaswani, I. Siso-Fuertes, J. Dermott, A. Hartwig, C. O'Donnell <i>UK</i>
Comparative outcomes of refractive lens-exchange treatments using optical biometry measurements obtained through combined Scheimpflug imaging and partial coherence interferometry vs swept-source optical coherence tomography | | |

15.00 – 16.00



PRESENTED POSTER SESSION

New & Interesting II

Poster Village: Pod 3

Facilitators: **S. Amir-Asgari** *AUSTRIA*
S. Palkovits *AUSTRIA*

- 15.00 **S. Shahipasand, J. Mohammed-Noriega, D. Sim, C. Gizzi, K. Kortum** *UK*
Nailfold capillaroscopy with commercially-available optical coherence tomography angiography for ophthalmic use
- 15.05 **A. Molina-Martín, D. Pinero Llorens, A. Sánchez-García, R. Clerigo, A. Artola** *SPAIN*
Preliminary clinical outcomes of a customised multifocal scleral contact lens in presbyopic eyes with irregular cornea after LASIK
- 15.10 **O. Obada, D. Chiselită** *ROMANIA*
Short-term evaluation of tear film parameters in diabetic patients after cataract surgery
- 15.15 **H. Lee, B. Cho** *SOUTH KOREA*
The association between risk factors and keratoconus for South Koreans: a 12-year nationwide cohort study
- 15.20 **A. Assylbekova, M. Saptayeva** *KAZAKHSTAN*
The use of ultrasound biomicroscopy (UBM) in the diagnosis of lens subluxation in patients with cataracts and pseudoexfoliation syndrome
- 15.25 **J. Perez, I. Cabeza, J. Ares, L. Remon** *SPAIN*
Biomechanical properties of a series of commercial foldable intraocular lenses
- 15.30 **N. Nielsen, A. Helgesen, G. Muus** *DENMARK*
IOLs for AMD patients: EyeMax mono – two years' follow-up
- 15.35 **S. Zaidi, N. Nizamani** *UK*
Neostigmine test: best alternative to Tensilon test for diagnosing myasthenia gravis
- 15.40 **M. Lefebvre, F. Mouriaux, C. Laurent, C. Doudnikoff, E. Boureaux** *FRANCE*
Study of visual recovery after early oral high-dose corticosteroids in acute optic neuritis
- 15.45 **Y. Yun, S. Kim, H. Kim, M. Kim** *SOUTH KOREA*
Comparison and analysis of dyslexia prevalence according to refractive error
- 15.50 **T. Kohnen, K. Varna-Tigka** *GERMANY*
Cosmetic iris implant excision due to pigment dispersion syndrome (PDS) from iris pigment epithelium (IPE) years after the initial implantation of the implants
- 15.55 **F. Erthal, H. Moreira, F. Branco, R. Omoto, G. Tesser** *BRAZIL*
Use of beta-blockers in microsurgery by ophthalmology resident physicians in Curitiba, Brazil
- 16.00 End of session

16.15 – 18.15



Combined Symposium of Cataract & Refractive Societies

ESCRS - European Society of Cataract & Refractive Surgeons

APACRS - Asia-Pacific Association of Cataract & Refractive Surgeons

ASCRS - American Society of Cataract & Refractive Surgery

LASCRS - Latin American Society of Cataract & Refractive Surgeons

Innovative IOL Technology

Auditorium

Chairperson: **B. Cochener-Lamard** *FRANCE (ESCRS)*

Moderators: **G. Barrett** *AUSTRALIA (APACRS)*
W. De La Pena *USA (LASCRS)*
R. Hoffmann *USA (ASCRS)*

- 16.15 **D. Chang** *USA (ASCRS)*
Light adjustable IOL
- 16.25 **H. Uy** *PHILIPPINES (APACRS)*
Multi component adjustable IOL
- 16.35 Discussion
- 16.45 **J.J. Mura** *CHILE (LASCRS)*
New delivery system
- 16.55 **G. Auffarth** *GERMANY (ESCRS)*
Extended-depth-of-focus IOLs
- 17.05 Discussion
- 17.15 **J. Vukich** *USA (ASCRS)*
Pinhole small aperture IOL
- 17.25 **M. Amon** *AUSTRIA (ESCRS)*
Piggyback implantation
- 17.35 Discussion
- 17.45 **M. Cosentino** *ARGENTINA (LASCRS)*
Last refinement in biomaterial
- 17.55 **S. Ganesh** *INDIA (APACRS)*
IOLs on the horizon
- 18.05 Discussion
- 18.15 End of session

16.00 – 18.00

FREE PAPER SESSION

Corneal Cross-Linking

South 5

Chairperson: **I. Can** *TURKEY*

Co-Chairperson: **D. Smadja** *ISRAEL*

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| <p>16.00 J. Brekelmans, M. Dickman, S. Verma, S. Arba Mosquera, A. Scherz, R. Nuijts, I. Pinkas, R. Goldschmidt, A. Goz, T. Berendschot, A. Brandis, A. Marcovich <i>THE NETHERLANDS</i>
Excimer laser-assisted selective corneal de-epithelialization for corneal collagen cross-linking</p> <p>16.06 L. Buzzonetti, G. Petrocelli <i>ITALY</i>
Iontophoretic transepithelial collagen cross-linking vs epithelium-off collagen cross-linking in paediatric patients</p> <p>16.12 M. Leucci, B. Allan, D. Gore <i>UK</i>
Continued long-term flattening following accelerated cross-linking for keratoconus</p> <p>16.18 D. Gore, J. Hill, C. Liu, P. Deardorff, V. Thompson, M. Raizman, D. Adler <i>UK</i>
Impact of oxygen, UV parameters, and drug formulation on accelerated epi-on corneal cross-linking</p> <p>16.24 Discussion</p> <p>16.30 M. Rechichi, C. Mazzotta, F. Marco, A. Meduri, V. Romano, D. Borroni, M. Zagari <i>ITALY</i>
The new modified STARE-X EVO protocol for keratoconus: two years' results of full customised transepithelial ablation and pachymetry-guided accelerated cross-linking</p> <p>16.36 S. Awwad, L. Chacra, A. Dhaini, C. Helwe, J. Torbey, E. Torres, F. Hafezi <i>LEBANON</i>
Corneal haze after cross-linking for keratoconic eyes with and without mitomycin C application: a prospective evaluation</p> <p>16.42 T. Seiler, A. Batista, B. Frueh, K. Koenig <i>SWITZERLAND</i>
Riboflavin concentrations at the endothelium during corneal cross-linking (CXL) in humans</p> <p>16.48 N. Pircher, S. Holzer, J. Lammer, G. Schmidinger <i>AUSTRIA</i>
Corneal cross-linking (CXL) with two different riboflavin solutions: a randomised controlled trial</p> <p>16.54 Discussion</p> <p>17.00 D. Borroni, N. Menassa, K. Iselin, S. Kaye, C. De Lossada, G. Coco, V. Romano <i>ITALY</i>
The 'epi-pocket': a new technique for corneal cross-linking</p> <p>17.06 F. Gilardoni, E. Torres-Netto, S. Kling, N. Hafezi, F. Hafezi <i>SWITZERLAND</i>
Individualised corneal cross-linking in ultra-thin corneas: 2 year follow-up</p> | <p>17.12 K. Elsawah, J. Warbey, S. Hamada, M. Elalfy <i>EGYPT</i>
Keratoconus progression following collagen cross-linking treatment in the paediatric population: what are the predicting factors?</p> <p>17.18 M. Sucu, Y. Yildirim, B. Yildiz, A. Ağca <i>TURKEY</i>
Accelerated corneal collagen cross-linking in paediatric keratoconus: long-term results and comparison of two protocols</p> <p>17.24 Discussion</p> <p>17.30 J. Goyal, S. Chaudhary, R. Arora, R. Anjum, V. Veerwal <i>INDIA</i>
Comparison of safety and efficacy of CA-CXL and HPMC-CXL in keratoconus with thin cornea</p> <p>17.36 S. Koronis, A. Rasoglou, A. Adamopoulou, E. Siskou, M. Balidis <i>GREECE</i>
Epithelium-on customised corneal collagen cross-linking for keratoconus</p> <p>17.42 W. Lim, J. Siew, C. Chua, F. Khoo, F. Gasper <i>SINGAPORE</i>
Epithelium-on photorefractive intrastromal cross-linking (PIXL) with supplemental oxygen for low hyperopic and early presbyopic treatment</p> <p>17.48 P. Legout, V. Saunier, D. Touboul <i>FRANCE</i>
Impact of CXL on corneal biomechanics and patient behaviour</p> <p>17.54 Discussion</p> <p>18.00 End of session</p> |
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16.00 – 18.00

INSTRUCTIONAL COURSES

- IC96 Astigmatism treatment: the current state of the art (A)**
J. Murta *PORTUGAL*, R. Nuijts *THE NETHERLANDS*, J. Alfonso *SPAIN*, F. Vaz *PORTUGAL*, A. Rosa *PORTUGAL*
South 1
- IC97 Modern management of irregular cornea (I)**
M. Shafik Shaheen *EGYPT*, M. Belin *USA*, T. Seiler *SWITZERLAND*, J. Güell *SPAIN*, F. Hafezi *SWITZERLAND*, S. Lazreg *ALGERIA*
South 2
- IC98 Different ways of secondary IOL implantation without capsular support (I)**
M. Forlini *ITALY*, B. Malyugin *RUSSIA*, G. Scharioth *GERMANY*, C. Carlevale *ITALY*, R. Bellucci *ITALY*, A. Mohr *GERMANY*
South 3
- IC99 Therapeutic refractive surgery...live! Bring your case (A)**
D. Reinstein *UK*, J. Alió *SPAIN*, A. Stojanovic *NORWAY*, J. Tan *SINGAPORE*, S. Mosquera *SPAIN*, P. Vinciguerra *ITALY*
South 4
- IC100 Management of cataract in challenging cases (A)**
A. Vasavada *INDIA*, Z. Biro *HUNGARY*, R. Osher *USA*, A. Crandall *USA*, S. Arshinoff *CANADA*
South 6
- IC101* Phaco techniques and complications (A)**
J. Bolger *UK*, S. Haldipurkar *INDIA*, D. Pusnik *SLOVENIA*
West 1
- IC102 DMEK from D to K: a step-by-step approach to Descemet's membrane endothelial keratoplasty (I)**
N. Singal *CANADA*, A. Slomovic *CANADA*, K. Baig *CANADA*, J. Teichman *CANADA*, T. Trinh *CANADA*
West 2
- IC103 Advances in anterior segment imaging (I)**
NEW **M. Ang** *SINGAPORE*, L. Schmetterer *AUSTRIA*, O. Stachs *GERMANY*, B. Mani *SINGAPORE*, R. Werkmeister *AUSTRIA*, K. Sperlic *GERMANY*
West 3
- IC104 Monovision in the 21st century (B)**
NEW **F. Llovet Osuna** *SPAIN*, J. Ortega-Usobiaga *SPAIN*, G. Muñoz *SPAIN*, M. Calvo *SPAIN*, M. Martínez-del-Pozo *SPAIN*, A. Llovet *SPAIN*
West 4

- IC105 Extended-depth-of-focus, pinhole, and trifocal IOLs: a practical guide to adopting new advanced technology IOLs (A)**
NEW **M. Piovella** *ITALY*, R. Zaldivar *ARGENTINA*, E. Donnenfeld *USA*, D. Chang *USA*, S. Rossi *ITALY*
West 5
- IC106 What's new in paediatric cataract surgery? (I)**
EBO **S. Chandramouli** *INDIA*, K. Narendran *INDIA*, M.J. Tassignon *BELGIUM*, T. Schultz *GERMANY*, N. Ziakas *GREECE*, S. Ravilla *INDIA*, R. Kekunaya *INDIA*
West 6

16.00 – 17.00

INSTRUCTIONAL COURSE

- IC107 Deep anterior lamellar keratoplasty: how to standardise and master the procedure (A)**
C. Bovone *ITALY*, M. Busin *ITALY*, S. Madi *EGYPT*, V. Scorgia *ITALY*
West 7

* Wetlab Pre-Requisite (A) Advanced (B) Basic (I) Intermediate
 Handouts available at www.escrs.org

16.30 – 18.00

FREE PAPER SESSION

Cornea Surgical: Keratoplasties

Free Paper Forum: Podium 1

Chairperson: **G. Kymionis** *GREECE*

Co-Chairperson: **J. Hjortdal** *DENMARK*

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| <p>16.30 M. Chew, A. Arundhati, L. Lim, J. Mehta, S. Young, D. Tan <i>SINGAPORE</i>
Comparative study of long-term graft survival between penetrating keratoplasty and deep anterior lamellar keratoplasty</p> <p>16.36 M. Dickman, J. Armitrage, M. Armitrage, L. Brocato, S. Dunker, J. Hjortdal, M. Heemskerk, R. Johnson, G. Jones, M. Jones, R. Nuijts, C. Konijn <i>THE NETHERLANDS</i>
Practice patterns and outcomes of corneal transplantations in Europe: first report from the European Cornea and Cell Transplantation Registry (ECCTR)</p> <p>16.42 J. Yu Ting, S. Lin, I. Tsai, L. Kuo, C. Tsai, L. Woung <i>TAIWAN</i>
The presence and impact of herpes simplex virus type-1 DNA in recipient cornea and aqueous humour on graft survival following penetrating keratoplasty</p> <p>16.48 H. Aghamollaei, K. Jadidi, S. Mirghorbani, H. Safabakhsh, F. Nejat <i>IRAN</i>
Recellular human corneal SMILE lenticule seeded with mesenchymal stem cells is a safe graft in an experimental animal model</p> <p>16.54 Discussion</p> <p>17.00 R. Birbal, I. Dapena, L. Ham, S. Ní Dhubhghaill, S. Oellerich, G. Melles <i>THE NETHERLANDS</i>
Five-year clinical outcomes after Descemet's membrane endothelial keratoplasty (DMEK): results of the first 500 consecutive cases</p> <p>17.06 A. Einan-Lifshitz, Z. Mednick, A. Belkin, N. Sorkin, C. Chan, D. Rootman <i>ISRAEL</i>
A comparison of DSAEK and DMEK in the treatment of failed penetrating keratoplasty</p> <p>17.12 S. Bagaglia, P. Gennaro, G. Gabriele, C. Mazzotta <i>ITALY</i>
In vivo confocal microscopy and AS-OCT evaluation of corneal neurotization in neurotrophic ulcer by a novel one-stage technique in combination with facial reanimation with second division of trigeminal nerve: two years' follow-up</p> <p>17.18 R. Fasciani, A. Caristia, L. Mosca, A. Caporossi <i>ITALY</i>
Long-term results of preconditioning treatment with bevacizumab in high-risk patients</p> <p>17.24 Discussion</p> | <p>17.30 J. Chung, Y. Lee, K. Lee, J. Kim, S. Park, K. Koh, B. Kim <i>SOUTH KOREA</i>
Combined phototherapeutic keratectomy and peripheral anterior stromal puncture in recurrent corneal erosion syndrome</p> <p>17.36 E. Melardi, A. Friehmann, J. Myerscough, C. Bovone, M. Busin <i>ITALY</i>
Management of high astigmatism after penetrating keratoplasty by means of penetrating relaxing incisions under a flap</p> <p>17.42 R. Solanki, S. Maled, K. Wali, K. Sathyamurthy <i>INDIA</i>
Reliability of impression cytology in diagnosis of ocular surface neoplasia</p> <p>17.48 T. Trinh, Z. Mednick, N. Sorkin, G. Santaella, A. Telli, A. Slomovic <i>CANADA</i>
Long-term outcomes of a novel technique of simple limbal epithelial transplant (SLET) for treatment of recurrent pterygium</p> <p>17.54 Discussion</p> <p>18.00 End of session</p> |
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16.30 – 18.00

FREE PAPER SESSION

Cataract Surgery Complications

Free Paper Forum: Podium 2

Chairperson: D. Spalton *UK*

Co-Chairperson: N. Reus *THE NETHERLANDS*

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| <p>16.30 A. Liekfeld, S. Zoll <i>GERMANY</i>
Sulcus implantation of three-piece intraocular lenses</p> <p>16.36 S. Levy-Neuman, O. Reitblat, A. Marcovich, A. Bukelman, G. Kleinmann <i>ISRAEL</i>
Clinical outcome of iris vs scleral intraocular lens fixation</p> <p>16.42 M. Astete, T. González, M. Perez, M. Ramirez, A. Rimassa <i>CHILE</i>
Results of surgical aphakia correction with Gore-Tex scleral four-point fixation of an injected hydrophobic acrylic intraocular lens through a sutureless incision</p> <p>16.48 K. Matovic, V. Pfeifer <i>SLOVENIA</i>
A two year experience with a sutureless transconjunctival intrascleral IOL fixation</p> <p>16.54 Discussion</p> <p>17.00 M. Dalby, O. Kristianslund, L. Drolsum <i>NORWAY</i>
Surgery for late in-the-bag intraocular lens dislocation: long-term visual outcome in a randomised clinical trial – lens repositioning vs lens exchange</p> <p>17.06 D. Muth, T. Kreutzer, A. Wolf, M. Shajari, S. Priglinger, W. Mayer <i>GERMANY</i>
Safety and efficacy of current scleral-fixation methods for intraocular lenses (IOLs)</p> <p>17.12 J. Beenakker, L. van Vught, G. Luyten <i>THE NETHERLANDS</i>
Differences in anterior chamber configuration in negative dysphotopsia</p> <p>17.18 L. van Vught, G. Luyten, J. Beenakker <i>THE NETHERLANDS</i>
Peripheral aberrations in negative dysphotopsia</p> <p>17.24 Discussion</p> <p>17.30 T. Yildirim, R. Khoramnia, G. Łabuz, H. Son, P. Merz, I. Lieberwirth, G. Auffarth <i>GERMANY</i>
Intraocular lens calcification in eyes with supplementary lenses</p> <p>17.36 D. Khair el Kareh, C. Torres-Quinones, R. Pineda II <i>LEBANON</i>
Crystalens intraocular lens opacification in a patient with asteroid hyalosis: a case report and review of the literature</p> | <p>17.42 P. Sankhe, S. Haldipurkar, V. Shetty, S. Tanwar, D. Shah, Z. Khatib, P. Nagvekar <i>INDIA</i>
A study comparing capsular changes following HOYA Vivinex® iSert and AcrySof IQ intraocular lens implantation in patients undergoing cataract surgery</p> <p>17.48 R. Bourkiza, H. Abdalla, E. Mensah <i>UK</i>
Anterior optic fibrous membrane opacification of hydrophobic acrylic intraocular lens (IOL): case series and management strategies</p> <p>17.54 S. Palioura, N. Relhan, E. Leung, V. Chang, S. Yoo, S. Dubovy, H. Flynn Jr. <i>GREECE</i>
Delayed-onset Candida parapsilosis cornea tunnel infection and endophthalmitis after cataract surgery: histopathology and clinical course</p> <p>18.00 End of session</p> |
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16.30 – 18.00

FREE PAPER SESSION

Small Incision Lenticule Extraction II

Free Paper Forum: Podium 3

Chairperson: **L. Trinh** *FRANCE*

Co-Chairperson: **S. Ganesh** *INDIA*

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| <p>16.30 M. Li, X. Zhou <i>CHINA</i>
A multicentre survey for the prevalence of dry eye disease in Chinese refractive surgery candidates</p> <p>16.36 J. Villada, J. Tendero, J. Beltran, T. Villada <i>SPAIN</i>
Incidence of corneal neuralgia after excimer laser corneal ablation</p> <p>16.42 B. Koktekir, Y. Karakucuk, S. Okudan <i>TURKEY</i>
The effect of flushing the interface in SMILE</p> <p>16.48 N. Luft, J. Siedlecki, V. Schmelter, M. Shajari, W. Mayer, S. Priglinger, M. Dirisamer <i>GERMANY</i>
Small incision lenticule extraction (SMILE) vs implantable collamer lens (ICL) implantation for treatment of high myopia: a matched comparative study</p> <p>16.54 D. Wu, X. Fang <i>CHINA</i>
Influence of cap thickness on corneal curvature changes in SMILE: three-month results</p> <p>17.00 J. Titiyal, A. Brar, M. Kaur, N. Sharma <i>INDIA</i>
Comparative evaluation of visual quality, ocular surface and corneal biomechanics with small incision lenticule extraction and femtosecond laser-assisted in situ keratomileusis</p> <p>17.06 Discussion</p> <p>17.15 O. Ibrahim, M. Abdalla, K. Nagy, A. El Massry <i>EGYPT</i>
To evaluate safety and efficacy of SMILE procedure: nine years' follow-up</p> <p>17.21 M. Onder, M. Soyler, M. Direl, M. Un, B. Acar <i>TURKEY</i>
Complication management in small-incision lenticule extraction laser vision correction</p> <p>17.27 G. Liang <i>CHINA</i>
Early clinical observation of intraoperative corneal stromal pocket irrigation by dexamethasone</p> <p>17.33 H. Koo, S. Kim, D. Lee <i>SOUTH KOREA</i>
Long-term clinical outcomes of small incision lenticule extraction with accelerated corneal cross-linking (SMILE Xtra): two year results</p> <p>17.39 M. Abdalla, K. Nagy, O. Ibrahim <i>EGYPT</i>
Combined flapless refractive lenticule extraction (SMILE) and intrastromal corneal cross-linking in patients with suspicious topography and/or thin corneas: refractive and biomechanical outcomes</p> | <p>17.45 K. Pradhan, D. Reinstein, P. Dhungana, G. Carp, T. Archer <i>NEPAL</i>
SMILE for hyperopia: visual and refractive outcomes at 12 months</p> <p>17.51 Discussion</p> <p>18.00 End of session</p> |
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16.30 – 18.00

FREE PAPER SESSION

Glaucoma Management

Free Paper Forum: Podium 4

Chairperson: K. Barton *UK*

Co-Chairperson: C. Schweitzer *FRANCE*

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| 16.30 | N. Aguilar, M. Hofmann, H. Matiz, F. Mata <i>MEXICO</i>
Incidence of glaucoma following cataract surgery in paediatric population at a reference centre in Mexico | 17.36 | A. Barata, M. Georgopoulos, G. Ratnarajan <i>PORTUGAL</i>
Outcomes of phacoemulsification combined with two iStent inject trabecular microbypass stents and endocyclophotocoagulation |
| 16.36 | S. Asrani, T. Heah <i>USA</i>
Analysis of a fixed-dose combination of netarsudil 0.02% and latanoprost 0.005% in a subset of subjects with ocular hypertension/open-angle glaucoma and history of ocular hypotensive therapy: the pooled MERCURY-1 and -2 phase 3 studies | 17.42 | V. Melnyk <i>UKRAINE</i>
Effectiveness of combined cataract and glaucoma surgery in different stages of open-angle glaucoma patients |
| 16.42 | A.M. Noureldine, P. Fouad, H. Ahmed, M. Khafagy <i>EGYPT</i>
ONH OCT diagnostic parameters of glaucoma in high myopes | 17.48 | C. Schweitzer, A. Labbe, A. Mudd, K. Nieland, J. Kleintjens, G. Gicquel, H. Falvey <i>FRANCE</i>
A cost-utility analysis of the iStent inject trabecular micro-bypass system plus cataract surgery in patients with mild to moderate open-angle glaucoma in France |
| 16.48 | F. Abo Alhassan, M. Hosny, M. Salem, H. Alshewy <i>EGYPT</i>
Changes in the intraocular pressure (IOP) readings and corneal biomechanics following small incision lenticule extraction (SMILE) | 17.54 | Discussion |
| 16.54 | Discussion | 18.00 | End of session |
| 17.00 | C. Kalamkar, A. Mukherjee, R. Rao <i>INDIA</i>
Post-keratoplasty glaucoma in perforated fungal keratitis | | |
| 17.06 | D. Maltsev, A. Kulikov, M. Burnasheva, A. Kazak <i>RUSSIA</i>
Anterior chamber particles as predictor for intraocular pressure lowering effect of selective laser trabeculoplasty | | |
| 17.12 | O. Pujol, M. Castany, J. Rigo, A. Dou, A. Boixadera <i>SPAIN</i>
Therapeutic scale, medical and surgical treatment in the management of malignant glaucoma: case series review | | |
| 17.18 | K. Gillmann, A. Kalala, A. Mermoud <i>SWITZERLAND</i>
Perforating deep sclerectomy: prospective evaluation of a new glaucoma filtering procedure adapted to resource scarcity in developing countries | | |
| 17.24 | Discussion | | |
| 17.30 | R. Barão, P. José, F. Teixeira, N. Pinto Ferreira, P. Sens, L. Abegão Pinto <i>PORTUGAL</i>
Automated gonioscopy assessment of XEN45 gel stent angle location after isolated XEN or combined phaco-XEN procedures: clinical implications | | |

18.00 – 20.00

IIIC SYMPOSIUM

The Perfect Save: Challenging Cases Managed by International Experts

Sponsored by the International Intra-Ocular Implant Club (IIIC)

South 4

Moderators: **T. Kohnen** *GERMANY*
S. Slade *USA*

Panellists: **G. Barrett** *AUSTRALIA*
B. Cochener-Lamard *FRANCE*
J. Güell *SPAIN*
R. Zaldivar *ARGENTINA*

The International Intra-Ocular Implant Club (IIIC) was founded in 1966 by Sir Harold Ridley, the inventor of the IOL, and is an invitational society devoted to the art and the science of intraocular lens implantation. The IIIC symposium will focus on global issues of lens-based surgery including management of complications, new technology, and advanced techniques to improve surgical outcomes. The expertise of international leaders in cataract surgery will be highlighted in a case-based programme featuring video presentations and will be discussed by a panel of thought leaders in the field of lens-based surgery.

18.00	T. Kohnen <i>GERMANY</i> , S. Slade <i>USA</i> Introduction	19.00	R. Nuijts <i>THE NETHERLANDS</i> Decreased vision after piggyback multifocal
18.05	S. Ganesh <i>INDIA</i> Post op refractive surprise dilemma after trifocal implant and unconventional management	19.06	Discussion
18.11	Discussion	19.11	L. Buratto <i>ITALY</i> Why is this IOL decentered?
18.16	M. Lawless <i>AUSTRALIA</i> Recurrent interface epithelial cyst 2 years after SMILE	19.17	Discussion
18.22	Discussion	19.22	B. Cochener-Lamard <i>FRANCE</i> Contribution of endoscopy in a challenging implantation
18.27	R. Yeoh <i>SINGAPORE</i> Blurred vision after blepharoplasty	19.28	Discussion
18.33	Discussion	19.33	J. Güell <i>SPAIN</i> A special case
18.38	O. Findl <i>AUSTRIA</i> A special case	19.39	Discussion
18.44	Discussion	19.44	Conclusion
18.49	B. Malyugin <i>RUSSIA</i> Multifocal IOL in post-RK eye	20.00	End of session
18.55	Discussion		



FREE PAPER FORUM

Sunday – Tuesday

In a room specially designed to facilitate interactivity, the Free Paper Forum allows podium presentations to be showcased in a new environment designed for speakers and audience to integrate, interact and discuss.

Delegates can move easily between parallel sessions within the same room, allowing them to attend the presentations of most interest to them.



TUESDAY

17 September

TUESDAY 17 SEPTEMBER

08.30 – 10.30

FREE PAPER SESSION

Advanced Optic IOLs

Free Paper Forum: Podium 1

Chairperson: **F. Ribeiro** *PORTUGAL*

Co-Chairperson: **R. Nuijts** *THE NETHERLANDS*

- 08.30 **D. Teenan, S. Hannan, K. Hettinger** *UK*
Safety, clinical efficacy, and patient-reported outcomes of a low-add intraocular lens in a large sample of patients from a real-world multicentre provider
- 08.36 **J. Venter, S. Hannan, D. Teenan** *SOUTH AFRICA*
Clinical and patient-reported outcomes of different combinations of diffractive and extended-depth-of-focus IOLs
- 08.42 **J. Moore, R. McNeely** *UK*
Visual quality and performance comparison between combined implantation of extended-depth-of-focus with trifocal intraocular lenses and bilateral implantation of trifocal intraocular lenses
- 08.48 **A. Mearza, S. Bhermi, N. Patton, H. Kasaby** *UK*
Clinical outcomes of a new extended-vision intraocular lens in the United Kingdom
- 08.54 **C. Palomino Bautista** *SPAIN*
Long-term experience with the 1stQ AddOn trifocal supplementary intraocular lens
- 09.00 Discussion
- 09.10 **A. Viljanen, H. Koskela, H. Uusitalo** *FINLAND*
Clear lens exchange with multifocal IOL improves health-related quality of life: one year prospective follow-up study
- 09.16 **G. Labiris, E. Panagiotopoulou, M. Gkika, A. Konstantinidis, I. Perente, D. Dardabounis, K. Ioannakis** *GREECE*
Impact of light intensity and temperature on reading performance following bilateral pseudophakic multifocal presbyopic correction
- 09.22 **K. Ditzen** *GERMANY*
Binocular correction for hyperopic presbyopia
- 09.28 **A. Abdul Hamid, S. Vaswani, I. SisoFuentes, J. Dermott, A. Hartwig, C. O'Donnell** *UK*
Comparative visual performance of corneal laser blended vision vs refractive lens exchange using either a trifocal or extended-depth-of-focus IOL
- 09.34 **G. Scharioth** *GERMANY*
Scharioth macula lens for patients with high myopia: a novel approach to achieve spectacle independence (binocular trifocal monovision)
- 09.40 **E. Taylor, D. Breyer, K. Klabe, H. Kaymak, F. Kretz, G. Auffarth, T. Ax** *GERMANY*
Clinical study results of a new segmental refractive EDOF IOL with hydrophobic hybrid material
- 09.46 **G. Duncker, A. Sasse, T. Duncker** *GERMANY*
Correcting residual refractive error after multifocal IOL implantation with a low diopter piggyback toric implantable collamer lens: a prospective pilot study
- 09.52 Discussion
- 10.02 **E. Panagiotopoulou, I. Fotiadis, A. Konstantinidis, I. Perente, D. Dardabounis, K. Ioannakis, G. Labiris** *GREECE*
Level of agreement of intraocular lens power measurements between IOLMaster and Verion
- 10.08 **K. Klabe, D. Breyer, H. Kaymak, P. Hagen, T. Ax, F. Kretz, G. Auffarth** *GERMANY*
Alignment of toric IOL via automated femtosecond laser-assisted capsular marks
- 10.14 **T. Schultz, B. Dick, M. Elling, T. Schmidt, M. Maus** *FRANCE*
The impact of an objective visual assessment tool on surgeon understanding and decision making in intraocular lens surgery
- 10.20 Discussion
- 10.30 End of session

08.30 – 10.30

FREE PAPER SESSION

Cataract Surgery: Special Cases

Free Paper Forum: Podium 2

Chairperson: M. Amon *AUSTRIA*Co-Chairperson: S. Arshinoff *CANADA*

- 08.30 **E. Malandain, J. Gueudry, G. Boutillier, M. Muraine** *FRANCE*
Outcomes of cataract surgery in patients with Fuchs' endothelial corneal dystrophy
- 08.36 **F. Blasetti, F. Spedale** *ITALY*
Impact of bottle height on corneal endothelium cell loss during phacoemulsification
- 08.42 **K. Khalifa** *EGYPT*
A novel technique for endothelial cell protection in hard cataract phacoemulsification
- 08.48 **I. Gazit, L. Or, B. Dubinsky-Pertzov, E. Pras, A. Einan-Lifshitz** *ISRAEL*
The influence of postoperative eye patching after a cataract surgery on corneal edema
- 08.54 Discussion
- 09.00 **S. Arshinoff** *CANADA*
The pressure of OVDs in cataract surgery
- 09.06 **O. Zavoloka, P. Bezditko, D. Zubkova, Y. Ilyina** *UKRAINE*
Corneal complications after cataract surgery in patients with diabetes mellitus
- 09.12 **N. Shorstein, L. Herrinton, L. Liu, S. Alexeef, A. Karter, L. Amsden, J. Carolan** *USA*
Visual outcomes after cataract surgery in patients with type 2 diabetes
- 09.18 **V. Evgrafov, G. Kudasheva, I. Medvedev** *RUSSIA*
Macular edema after phacoemulsification in patients with diabetic retinopathy
- 09.24 Discussion
- 09.30 **T. Page, L. Werner, N. Ellis, J. Heczko** *USA*
Analysis of suture-guided capsular tension rings vs standard capsular tension rings using Miyake-Apple video analysis and strategies to avoid capsular tension ring complications
- 09.36 **C. Kalogeropoulos, D. Kalogeropoulos, M. Stefaniotou, C. Pappa, A. Christodoulou, K. Malamos, I. Asproudis** *GREECE*
Uveitic cataract surgery: analysis of data of patients in a tertiary academic referral centre
- 09.42 **C. Soare, D. Patel, A. Ionides** *UK*
Cataract surgery outcomes in eyes with previous radial keratotomy
- 09.48 **D. Choudhury, N. Dash** *INDIA*
Traumatic cataract in a developing country
- 09.54 Discussion
- 10.00 **F. Badala, E. Bona** *ITALY*
A new extended macular vision intraocular lens for patients with cataract and macular disease: a consecutive case series
- 10.06 **M. Duchene, J. Gueudry, M. Muraine** *FRANCE*
Novel surgical management of uveitis-glaucoma-hyphema syndrome
- 10.12 **M. Rajan, S. Moan** *INDIA*
Punchorhexis in white intumescent cataract
- 10.18 **S. Maedel, I. Baumhauer, M. Ruiss, J. Tabernero, P. Artal, O. Findl** *AUSTRIA*
Prediction of pseudophakodonesis after uneventful cataract surgery
- 10.24 Discussion
- 10.30 End of session

TUESDAY 17 SEPTEMBER

08.30 – 10.30

FREE PAPER SESSION

Cornea Surgical: Lamellar Corneal Grafts

Free Paper Forum: Podium 3

Chairperson: **D. Kook** *GERMANY*

Co-Chairperson: **M. Muraine** *FRANCE*

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|---|---|
| <p>08.30 D. Touboul, E. Coirier, V. Saunier <i>FRANCE</i>
Clinical evaluation of deeply manually stripped endothelial automated keratoplasty (DMSEAK) as a new ultrathin endothelial keratoplasty</p> <p>08.36 D. Shahnazaryan, A. Hajjar Sese, E. Hollick <i>UK</i>
Comparison of clinical outcomes of Descemet's membrane endothelial keratoplasty (DMEK) vs DMEK combined with cataract surgery in Fuchs' endothelial dystrophy</p> <p>08.42 D. Dragnea, R. Birbal, I. Dapena, L. Han, J. Parker, S. Oellerich, G. Melles <i>ROMANIA</i>
Clinical outcomes of Descemet's membrane endothelial keratoplasty in eyes with a glaucoma drainage device</p> <p>08.48 G. Salsini, J. Myerscough, C. Bovone, M. Mimouni, M. Elkadim, S. Padroni, M. Busin <i>ITALY</i>
Factors predictive of double anterior chamber formation following deep anterior lamellar keratoplasty</p> <p>08.54 Discussion</p> <p>09.00 G. Gerten, P. Thiee, U. Oberheide <i>GERMANY</i>
Clear cornea femto DALK: a novel approach for deep anterior lamellar keratoplasty (DALK) with femtosecond laser-assistance</p> <p>09.06 J. Cabrerizo Nunez, I. Potapenko, M. Alberti <i>DENMARK</i>
Evaluation of the use of intraoperative triamcinolone in Descemet's membrane endothelial keratoplasty</p> <p>09.12 J. Hou, P. Bedard, J. Justin, M. Hansen <i>USA</i>
Inducing a trifold conformation in Descemet's membrane endothelial keratoplasty (DMEK) using small paired radial incisions</p> <p>09.18 Discussion</p> <p>09.24 L. de Benito-Llopis, S. Koay <i>UK</i>
Refractive outcomes in combined cataract surgery and Descemet's membrane endothelial keratoplasty (phacoDMEK)</p> <p>09.30 L. Ham, S. Oellerich, K. van Dijk, L. Frank, S. Ní Dhubghaill, L. Baydoun, G. Melles <i>THE NETHERLANDS</i>
Risk factors associated with high endothelial cell density decrease after Descemet's membrane endothelial keratoplasty (DMEK)</p> | <p>09.36 M. Macsai, M. Shiloach <i>USA</i>
The use of Rho kinase inhibitors after Descemet's stripping only in Fuchs' dystrophy</p> <p>09.42 J. Cabrerizo Nunez, G. Özer, M. Kyhn, K. HøjgaardOlsen, M. la Cour, J. Cabrerizo <i>DENMARK</i>
Air vs sulphur hexafluoride in DMEK: a randomised controlled trial</p> <p>09.48 Discussion</p> <p>09.54 M. Petrelli, D. Miltasakakis, K. Andreanos, C. Koutsandrea, K. Droutsas <i>GREECE</i>
Visual outcomes of ultrathin Descemet's stripping endothelial keratoplasty vs Descemet's stripping endothelial keratoplasty</p> <p>10.00 N. Moura Coelho, D. Hipólito Fernandes, S. Crisóstomo, N. Alves, P. Candelária, V. Maduro, J. Feijão <i>PORTUGAL</i>
Analysis of repeat Descemet's stripping automated endothelial keratoplasty (reDSAEK) from a tertiary centre of ophthalmology in Portugal</p> <p>10.06 R. Simons, S. Dunker, M. Dickman, F. van den Biggelaar, C. Dirksen, R. Nuijts <i>THE NETHERLANDS</i>
Trial based cost-effectiveness analysis of Descemet's membrane endothelial keratoplasty (DMEK) vs ultrathin Descemet's stripping automated endothelial keratoplasty (UT-DSAEK)</p> <p>10.12 S. Dunker, M. Dickman, R. Wisse, S. Nobacht, R. Wijdh, M. Bartels, R. Nuijts, M. Tang, F. van den Biggelaar, P. Kruit <i>THE NETHERLANDS</i>
Quality of vision after ultra-thin Descemet's stripping automated endothelial keratoplasty (UT-DSAEK) vs Descemet's membrane endothelial keratoplasty (DMEK): a multicentre randomised controlled clinical trial</p> <p>10.18 A. Vega-Estrada, C. Fariselli, J. Alió <i>SPAIN</i>
Corneal posterior surface analysis of patients with Down syndrome</p> <p>10.24 Discussion</p> <p>10.30 End of session</p> |
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08.30 – 10.30

FREE PAPER SESSION

Advanced Tools for Outcome Assessment

Free Paper Forum: Podium 4

Chairperson: M. Teus *SPAIN*Co-Chairperson: S. Palkovits *AUSTRIA*

- 08.30 **A. Piccinini, O. Golan, E. Torres-Netto, F. Hafezi, J. Randleman** *BRAZIL*
Higher order aberration measurement comparison between Scheimpflug and dual-Scheimpflug technology
- 08.36 **D. Pinero Llorens, A. Molina-Martin, V. Camps, M. Caballero, D. de Fez, H. Fukumitsu** *SPAIN*
Validation of corneal topographic and aberrometric measurements obtained by colour light-emitting diode reflection topography in healthy eyes
- 08.42 **A. Kovalov, O. Averyanova, I. Kovalov** *UKRAINE*
Possible effect of induced higher order aberrations (HOA) on myopia control by orthokeratology
- 08.48 **C. McAlinden, J. Schwiegerling, J. Khadka, K. Pesudovs** *UK*
Corneal aberrations measured with the Oculus Pentacam HR: repeatability and reproducibility
- 08.54 **J. Mehta, A. Hipsley, Y. Liu, B. Hall** *SINGAPORE*
Correlation of wound healing with accommodative stability utilising iTrace wavefront aberrometry
- 09.00 **V. Molebny, O. Molebna, J. Wakil, I. Pallikaris** *UKRAINE*
Q-factor as a descriptor of the refractive dysfunction of the lens
- 09.06 Discussion
- 09.14 **I. Mushkova, N. Maychuk, A. Ignatyev** *RUSSIA*
Hyperopic refraction accompanied by irregular astigmatism after radial keratotomy: two-step technology for optical rehabilitation
- 09.20 **R. Rampat, L. Dumas, J. Malet, D. Gatinel** *UK*
An improved wavefront reconstruction method for human eyes
- 09.26 **I. Salah Mabed, A. Saad, D. Gatinel** *FRANCE*
Investigating the topographic effect of epithelium in myopic eyes with and without topographic preoperative abnormalities
- 09.32 **G. Kundu, R. Shetty, A. Roy, M. Francis** *INDIA*
Next generation mapping of 3D epithelium thickness: a tool to assess wound healing after refractive surgery
- 09.38 **V. Murugesan, S. Azimeera, T. Makhwana, R. Tandon** *INDIA*
Correlation of ocular aberrations with PTA in myopic femtosecond flap LASIK
- 09.44 **S. Mahmoud, Z. Hassanin, A. Shama** *EGYPT*
Comparison of corneal higher-order aberrations after sub-Bowman's keratomileusis and femtosecond laser-assisted LASIK for myopia and myopic astigmatism
- 09.50 **M. Dirisamer, F. Reinking, J. Siedlecki, N. Luft, S. Priglinger** *GERMANY*
Impact of extreme (flat and steep) keratometry on the safety and efficacy of small incision lenticule extraction: a matched comparative study
- 09.56 Discussion
- 10.04 **M. Garcia-Gonzalez, G. Laucirica, G. Bolivar, E. Arranz-Marquez, J. Gros-Otero, V. Blazquez, M. Teus** *SPAIN*
Analysis of intraocular pressure elevation during LASIK surgery: a comparative study of four femtosecond laser devices
- 10.10 **I. De Pascale, M. De Bernardo, L. Vitiello, G. Cembalo, D. Biondino, C. Casaburi, N. Rosa** *ITALY*
Goldmann applanation tonometry-correcting equations: comparison with dynamic contour tonometry
- 10.16 **Z. Dadachanji, P. Khamar, R. Shetty, A. Ghosh** *INDIA*
Translational applications for a point-of-care molecular diagnostic kit in refractive surgery: the future!
- 10.22 Discussion
- 10.30 End of session

08.30 – 10.30

INSTRUCTIONAL COURSES

IC108* Anterior segment surgical solutions for secondary repair of post-traumatic eyes: a video-based course (A)

J. Talma *SOUTH AFRICA*, M.J. Tassignon *BELGIUM*,
G. Auffarth *GERMANY*, B. Malyugin *RUSSIA*,
E. Assia *ISRAEL*
West 1

IC109 The surgeon's guide to SMILE: complications and retreatments (I)

NEW

G. Carp *UK*, D. Reinstein *UK*, A. Day *UK*,
A. Stuart *UK*, R. Vida *UK*
West 2

IC110 Tips and tricks for refractive lens exchange in challenging patients (I)

NEW

M. Nanavaty *UK*, T. Kohnen *GERMANY*, J. Stevens *UK*,
P. Rosen *UK*, M. Pande *UK*, S. Srinivasan *UK*
West 3

IC111 Expanding applications of corneal cross-linking (CXL) and early detection of keratoconus (I)

S. Hamada *UK*, D. O'Brart *UK*, M. Belin *USA*,
F. Hafezi *SWITZERLAND*, T. Seiler *SWITZERLAND*,
T. Koller *SWITZERLAND*
West 4

IC112 Age-related macular degeneration IOLs (B)

NEW

A. Grzybowski *POLAND*, P. Artal *SPAIN*, J. Alió *SPAIN*,
D. Keegan *IRELAND*, M.J. Tassignon *BELGIUM*,
G. Scharioth *GERMANY*
West 5

IC113 The ocular surface and cataract, refractive and glaucoma surgery (I)

NEW

EBO

E. Villani *ITALY*, E. Messmer *GERMANY*,
C. Baudouin *FRANCE*, M. Sacchi *ITALY*
West 6

IC114 The evolution of PTK: from plano to transepithelial custom corneal wavefront-guided ablations, a step-by-step course to achieve optimal results (I)

P. Vinciguerra *ITALY*, R. Vinciguerra *ITALY*,
T. Archer *UK*, J. Tan *SINGAPORE*
West 7

08.30 – 09.30

INSTRUCTIONAL COURSE

IC115 Website content that converts (I)

NEW

D. Butler *USA*
West 8

* Wetlab Pre-Requisite (A) Advanced (B) Basic (I) Intermediate
Handouts available at www.esccrs.org

09.30 – 11.00

PRESENTED POSTER SESSION

After Surgery

Poster Village: Pod 1

Facilitators: C. Della Guardia *ITALY*
A. Panico *ITALY*

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|---|---|
| <p>09.30 Y. Tokunaga, E. Nishimura, R. Ebine, A. Toujyuu, A. Kuriike, K. Yokoyama, M. Soda <i>JAPAN</i>
Consideration of the duration of the intraocular lens (IOL) dislocation for each risk factor after the initial cataract surgery</p> <p>09.35 A. Young, K. Kam <i>HONG KONG</i>
Perioperative predictors of success in scleral-fixated intraocular lens implantations</p> <p>09.40 N. Reus, J. Vlasman, T. van den Berg <i>THE NETHERLANDS</i>
Straylight in a patient with calcification of the IOL due to asteroid hyalosis</p> <p>09.45 S. Manning, M. Ashraf, C. Quigley <i>IRELAND</i>
Reversible opacification of a hydrophobic acrylic intraocular lens</p> <p>09.50 C. Mastromonaco, M. Balazsi, J. Burnier, M. Burnier <i>CANADA</i>
Large-scale analysis of intraocular lens opacifications using digital automated detection software</p> <p>09.55 S. Masnec, M. Kalauz, T. Kuzman, I. Skegro, S. Jandrokovic <i>CROATIA</i>
Postoperative analysis of glistenings and posterior capsule opacification (PCO) after phacoemulsification: comparison of two different intraocular lenses</p> <p>10.00 M. Millan, N. Garzon, F. Vega <i>SPAIN</i>
Chromatic aberration of phakic and pseudophakic eyes measured in the clinic</p> <p>10.05 R. Ang, R. Williams, R. Suryakumar <i>PHILIPPINES</i>
Evaluation of anterior chamber depth, endothelial cell loss, and safety following optic exchange of a modular intraocular lens</p> <p>10.10 M. Romero Sanz, F. Bartol-Puyal, C. Almenara Michelena, D. Soriano Pina, A. Mateo Orobia, J. Larrosa Povés, L. Pablo Júlvez <i>SPAIN</i>
Vision comparison after implantation of two different intraocular lenses: Tecnis and Clareon</p> <p>10.15 E. Liang, G. Lau, V. Kolesnitchenko, A. Pilon <i>USA</i>
Range-of-vision in patients implanted with hydrophobic acrylic monofocal IOL with zero spherical aberration</p> <p>10.20 M. Konovalova, O. Miiiovitch, K. Pershin, N. Pashinova, A. Tsygankov, I. Likh, E. Gurmizov <i>RUSSIA</i>
An experience of binocular implantation of diffractive trifocal intraocular lens for presbyopia correction</p> | <p>10.25 P. Ursell, R. Hamilton, D. O'Boyle, A. Venerus, L. Raiteri, M. Dhariwal <i>UK</i>
Are blue-light-filtering (BLF) intraocular lenses (IOLs) protective against age-related macular degeneration (AMD)? An exploratory analysis using a retrospective cohort of 66,778 eyes in the UK</p> <p>10.30 C. López Caballero, C. Sánchez Sánchez, B. Puerto Hernández, I. Contreras <i>SPAIN</i>
Influence of narrow anterior chamber in the postoperative residual error after phacoemulsification with multifocal lens implantation</p> <p>10.35 H. Huang, C. Hsiao, S. Kuo <i>TAIWAN</i>
The correlation between refractive status and visual outcome in patients having cataract surgery with multifocal intraocular lens: Lentis Mplus implantation</p> <p>10.40 S. Kaya Unsal, F. Helvacioğlu, E. Sunay, O. Kavalcioglu <i>TURKEY</i>
Topographic factors affecting dissatisfaction after trifocal IOL implantation</p> <p>10.45 J. Corre, B. Cochener-Lamard <i>FRANCE</i>
The challenge of presbyopic phakic implantation</p> <p>10.50 T. Page, L. Werner, N. Ellis, J. Heczko, D. Rooney, M. Gappy <i>USA</i>
The effect of capsular tension rings on accommodative intraocular lens performance and the suture-guided capsular tension ring technique for eyelet positioning</p> <p>10.55 R. Ruiz-Mesa <i>SPAIN</i>
Visual outcomes and optical quality of a new trifocal intraocular lens</p> <p>11.00 End of session</p> |
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TUESDAY 17 SEPTEMBER

09.30 – 11.00

PRESENTED POSTER SESSION

Keratorefractive Surgery Results II

Poster Village: Pod 2

Facilitators: **B. Bostanci Ceran** *TURKEY*
N. Yesilirmak *FRANCE*

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|--|---|
| <p>09.30 N. Duru, Z. Duru, D. Ulusoy <i>TURKEY</i>
Diffuse lamellar keratitis associated with contact lens after FemtoLASIK: case series</p> <p>09.35 A. Gyldenkerne, A. Ivarsen, J. Hjortdal <i>DENMARK</i>
Assessing the change in visual quality and predicting the postoperative visual acuity following small-incision lenticule extraction for high myopia</p> <p>09.40 S. Diniz, P. Gomes, I. Matias, P. Neves <i>PORTUGAL</i>
Urrets-Zavalía syndrome after phakic intraocular lens implantation</p> <p>09.45 M. Boháč, M. Pauk Gulic, A. Pašalić, S. Patel <i>CROATIA</i>
Custom ablations in irregular corneas</p> <p>09.50 E. Eskina, V. Parshina <i>RUSSIA</i>
Tips and tricks for customised ablation</p> <p>09.55 R. Malik, M. Sachdev, H. Gupta <i>INDIA</i>
Unilateral post-LASIK ectasia despite normal tomography</p> <p>10.00 M. Marzidovsek, V. Pfeifer <i>SLOVENIA</i>
To analyse the clinical outcomes of ten consecutive complex patients undergoing reconstructive iris surgery with artificial iris implantation using a four-floating-suture technique</p> <p>10.05 A. Karunakaran, A. Sinha Roy, R. Shetty, P. Ahuja <i>INDIA</i>
Long-term outcomes of novel customised topography-guided removal of epithelium (TREK) with topography-guided photorefractive keratectomy (T-PRK) with cross-linking</p> <p>10.10 G. Mahadevan, R. Shetty, P. Ahuja, P. Khamar <i>INDIA</i>
Understanding subepithelial corneal nerve plexus using a novel software in refractive surgery</p> <p>10.15 D. Pinero Llorens, P. Ruiz-Fortes, H. Fukumitsu, R. Soto-Negro <i>SPAIN</i>
Interchangeability of corneal curvature and asphericity measurements provided by three different devices</p> <p>10.20 G. Kymionis, G. Kontadakis, N. Voulgari, M. Grentzelos <i>GREECE</i>
Treatment of myopia and astigmatism in eyes with suspicious topography with PRK followed by accelerated CXL: PRK-Plus</p> | <p>10.25 D. Kang, H. Lee, E. Kim, T. Kim, J. Choi, S. Park <i>SOUTH KOREA</i>
Decentration measurements using the tangential curvature topography and Scheimpflug tomography pachymetry difference maps after small incision lenticule extraction procedure</p> <p>10.30 S. Nielsen, A. Eriksen, A. Ivarsen, H. Sejersen, C. Moeller, C. Hedegaard, J. Hjortdal <i>DENMARK</i>
Patient-reported satisfaction after small incision lenticule extraction (SMILE) in 1,620 myopic patients</p> <p>10.35 N. Quesnel, C. Ferremi, M. Boileau, S. Lor, M. Lachapelle, A. Simard, C. Ieraci <i>CANADA</i>
Patient satisfaction 4–5 years after refractive laser vision correction (PRK or LASIK)</p> <p>10.40 S. Adib-Moghaddam, M. Razi-Khosroshahi, A. Haydar, S. Soleyman-Jahi, S. Arba Mosquera, I. Pallikaris <i>IRAN</i>
Six-month results of refined vs conventional single-step TransPRK in correction of different degrees of astigmatism</p> <p>10.45 Y. Karakucuk, B. Ekinci Köktekir, B. Bozkurt <i>TURKEY</i>
Small incision lenticule extraction (SMILE): intraoperative complications</p> <p>10.50 Ü. Kamaş, M. Gülmez, B. Küçük <i>TURKEY</i>
The influence of cap thickness on visual outcomes in small incision lenticule extraction</p> <p>10.55 Discussion</p> <p>11.00 End of session</p> |
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09.30 – 11.00

PRESENTED POSTER SESSION YO

Corneal Cross-Linking

Poster Village: Pod 3

Facilitators: A. Frings *GERMANY*
N. Visser *THE NETHERLANDS*

- 09.30 **C. Bonzano, C. Cutolo, D. Musetti, C. Traverso** *ITALY*
Delayed re-epithelialization after epithelium-off cross-linking: predictors and impact on keratoconus progression
- 09.35 **T. Kojima, T. Nishida, T. Nakamura, Y. Satoh, A. Tamaoki, K. Ichikawa, K. Ichikawa** *JAPAN*
Detection of early-stage keratoconus using an auto-keratometer: multicenter study
- 09.40 **R. Herber, M. Francis, E. Spoerl, L. Pillunat, F. Raiskup, A. Roy** *GERMANY*
Evaluation of biomechanical changes and corneal stiffening after corneal cross-linking in progressive keratoconus: a prospective follow-up study using an air-puff applanation Scheimpflug analyser
- 09.45 **F. Cifariello, E. Tonti, R. Dell’Omo, C. Costagliola** *ITALY*
Central cornea regularisation and collagen cross-linking in keratoconus treatment
- 09.50 **M. Roca Cabau, A. Del Hierro, S. Noval, A. Boto, I. Mogollon Giral, L. Sanjuan Riera, R. Montejano Milner** *SPAIN*
Effectivity of corneal cross-linking in paediatric keratoconus with or without previous treatment with intracorneal ring segments (ICRS)
- 09.55 **F. Tzani, A. Kanellopoulos** *GREECE*
Partial topography-guided ablation combined with additional CXL (Athens Protocol) in eyes following previous failed CXL
- 10.00 **C. McAlinden, D. Qi Li, B. Ruixue Tu, Q. Wang, D. O’Brart, Y. Huang, J. Huang** *UK*
Systematic review and meta-analysis: epithelium-off vs transepithelial and standard vs accelerated corneal collagen cross-linking for keratoconus
- 10.05 **E. Jarade, W. Chanbour, L. Al Zein, M. Issa** *LEBANON*
Comparing keratoconus and post-LASIK ectasia progression rate after corneal collagen cross-linking: 3 years’ follow-up
- 10.10 **S. Shiga, T. Kojima, T. Nishida, T. Nakamura, A. Hasegawa, T. Kaga, K. Ichikawa** *JAPAN*
Evaluation of Corvis biomechanical index for diagnosing forme fruste keratoconus
- 10.15 **B. Yildiz, C. Gurezi, Y. Yildirim, A. Agca** *TURKEY*
Assessment of posterior corneal changes after accelerated corneal cross-linking for keratoconus
- 10.20 **S. Troisi, F. Di Landro, M. Troisi, V. Turco** *ITALY*
Corneal transepithelial cross-linking using iontophoretic method (i-CXL-TE) in progressive keratoconus (KC) in young adult patients: follow-up at 36 months
- 10.25 **A. Moradi, A. Malik, D. Goodman** *USA*
Primary outcomes of epithelium-on corneal cross-linking for paediatric keratoconus: a one-year prospective study
- 10.30 **K. Kiszka, M. Kubrak-Kiszka, M. Nanavaty** *UK*
Deviation of cone apex from pupil center (chord μ) in eyes with keratoconus depending on cone location based on Kmax
- 10.35 **X. Letnikova, A. Ivanova, A. Sclyarova** *RUSSIA*
Simultaneous topography-guided photorefractive keratectomy and accelerated corneal cross-linking
- 10.40 **C. Garcia Arumi Fuste, S. Martin Nalda, L. Bisbe Lopez, R. Martin Pujol, D. Aragon Roca, M. Berges Marti** *SPAIN*
Sterile corneal infiltrates after riboflavin-UVA collagen cross-linking in keratoconus: a two-case report
- 10.45 **A. Vega-Estrada, M. Mimouni, E. Espla, J. Alió Del Barrio, J. Alió** *SPAIN*
Intrasubject repeatability of epithelial thickness and its relation to visual acuity in keratoconus patients
- 10.50 **C. Tsenikoglou, K. Boboridis, F. Topouzis** *GREECE*
Management of end-stage fungal corneal ulceration with off-label treatment
- 10.55 **D. Ortiz Vaquerizas, M. Garat Chifflet, S. Duch Tuesta** *SPAIN*
Predescemetic hemorrhage: two cases, two options in management
- 11.00 End of session

TUESDAY 17 SEPTEMBER

11.00 – 13.00

MAIN SYMPOSIUM

The Unhappy Pseudophakic Patient

Auditorium

Chairpersons: **A. Behndig** *SWEDEN*
R. Nuijts *THE NETHERLANDS*

- 11.00 **M. Kugelberg** *SWEDEN*
Causes of patient dissatisfaction in the Swedish Cataract Registry
- 11.15 **K. Pesudovs** *AUSTRALIA*
20/20 but still unhappy
- 11.30 Discussion
- 11.40 **E. Assia** *ISRAEL*
Happy until the IOL dislocated
- 11.55 **G. Luyten** *THE NETHERLANDS*
Negative dysphotopsias
- 12.10 Discussion
- 12.20 **O. Findl** *AUSTRIA*
The unhappy toric IOL patient
- 12.35 **B. Cochener-Lamard** *FRANCE*
The unhappy multifocal IOL patient
- 12.50 Discussion
- 13.00 End of session

14.00 – 16.00

PRESBYOPIA WORKSHOP

Challenging the Latest Presbyopia Technologies

South 4

Chairpersons: **D. Epstein** *SWITZERLAND*
I. Pallikaris *GREECE*

- 14.00 **J. Alió** *SPAIN*
A prospective study of new presbyopia drops
- 14.15 **O. Rozanova** *RUSSIA*
Binocularity and monovision in presbyopia correction
- 14.30 Discussion
- 14.40 **C. Koppen** *BELGIUM*
Progress in the management of presbyopia with contact lenses
- 14.55 **I. Pallikaris** *GREECE*
Are any inlays really successful?
- 15.10 Discussion
- 15.20 **D. Spalton** *UK*
A critical view of accommodative IOLs
- 15.35 **B. Cochener-Lamard** *FRANCE*
Advances in IOLs for presbyopia
- 15.50 Discussion
- 16.00 End of session

14.00 – 16.00

FREE PAPER SESSION

Cataract Surgery: Complications & Management

Free Paper Forum: Podium 1

Chairperson: **B. Malyugin** *RUSSIA*Co-Chairperson: **Z. Nagy** *HUNGARY*

- 14.00 **C. Bertens, M. Gijs, S. van Uden, A. Dias, F. van den Biggelaar, R. Nuijts** *THE NETHERLANDS*
Safety and drug-release characteristics of the ocular coil: a new non-invasive drug-delivery device to prevent intraocular inflammation after cataract surgery
- 14.06 **E. Donnenfeld, J. Berdahl, J. Hovanesian, F. Mah, T. Walters, S. Bafna, S. Vantipalli, J. Metzinger, M. Goldstein** *USA*
Safety and efficacy of a dexamethasone intracanalicular insert (0.4 mg) for the treatment of ocular pain and inflammation after cataract surgery
- 14.12 **L. Santana-García, M. Cordero-Coma, C. Plaza-Laguardia, J. Sanchez-Cañizal, P. Soler-Bartrina, E. Pastenes-Zhilin, M. Regal-Rodriguez** *SPAIN*
Intraoperative dexamethasone intravitreal implant in high-risk uveitic cataract phacoemulsification
- 14.18 **S. Arshinoff, M. Modabber** *CANADA*
Mathematical models of intracameral antibiotics for postoperative endophthalmitis (POE) prophylaxis: answering lingering questions
- 14.24 Discussion
- 14.32 **M. Coassin, F. Bandello** *ITALY*
Medical treatment after cataract surgery: evidence for a new anti-inflammatory strategy
- 14.38 **P. Shah, M. Macsai, M. Shiloach** *USA*
Evaluating rates of cystoid macular edema after dropleless cataract surgery
- 14.44 **T. Laube** *GERMANY*
Prevention of pseudophakic cystoid macular edema: comparison of two perioperative treatment strategies
- 14.50 **B. Johansson, J. Gärden** *SWEDEN*
Do non-steroidal anti-inflammatory drugs added to steroid treatment lower the number of unplanned postoperative visits after phacoemulsification? A two-centre comparative cohort study
- 14.56 **H. Roberts, F. Sanders, N. Gupta** *UK*
Clinical outcomes, patient-reported outcomes and costs of management of pseudophakic cystoid macular oedema compared with age and co-pathology matched controls
- 15.02 **S. Ti, Y. Yang, S. Chee** *SINGAPORE*
Cystoid macular edema after primary anterior chamber intraocular lens implants following posterior capsule rent
- 15.08 Discussion
- 15.16 **C. Cagini, A. Cerquaglia, S. Travaglini, M. Lupidi, T. Fiore** *ITALY*
Objective evaluation of anterior chamber inflammation after cataract surgery in patients who underwent intracameral injection of mydriatic drugs (Mydrane®): a pilot study
- 15.22 **S. Souki, F. Manero, J. Güell** *SPAIN*
An open-label randomised clinical trial to evaluate the effects of Mydrane and standard topical mydriatics and anaesthetics protocol on ocular surface after cataract surgery
- 15.28 **R. Romero Fontenlos, S. Patra, S. Pipis, A. Vergados** *UK*
Factors influencing Mydriaser® pupillary dilation in cataract surgery
- 15.34 **E. Favuzza, M. Cennamo, A. Miele, R. Mencucci** *ITALY*
Efficacy of a hydroxypropyl guar and hyaluronic acid ophthalmic solution on ocular discomfort after cataract surgery
- 15.40 **E. Stangogianni Druya, C. Stangogianni** *GREECE*
Conjunctival goblet cell density following cataract surgery: dry eye syndrome
- 15.46 Discussion
- 16.00 End of session

TUESDAY 17 SEPTEMBER

14.00 – 16.00

FREE PAPER SESSION

Posterior Capsule Opacification/IOL Power Calculations

Free Paper Forum: Podium 2

Chairperson: A. Abulafia *ISRAEL*

Co-Chairperson: J. Fernández *SPAIN*

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| <p>14.00 P. Ursell, M. Dhariwal, D. O'Boyle, J. Khan, A. Venerus, A. Muthutantri <i>UK</i>
Risk factors associated with higher incidence of Nd:YAG capsulotomy post-cataract surgery: UK EMR database study</p> <p>14.06 V. Guduru, J. Kasireddy <i>INDIA</i>
PCO ring: a novel device to prevent posterior capsule opacification and enhance toric IOL stability</p> <p>14.12 C. Joo, Y. Yoo, S. Choi, J. Mok, B. Choi, H. Seok, H. Jeon <i>SOUTH KOREA</i>
Periodic nano-textured micro-patterns on intraocular lens surface to regulate posterior capsular opacity</p> <p>14.18 J. Garcia-Montesinos Gutierrez, M. Rodriguez-Vallejo, J. Martinez, D. Piñero, J. Fernandez <i>SPAIN</i>
Posterior capsular opacification and contrast sensitivity defocus curve with two trifocal intraocular lenses</p> <p>14.24 Y. Nishi, K. Uemura, H. Sakata, H. Nishi, J. Yamaguchi, K. Nishi, O. Nishi <i>JAPAN</i>
Phimosis treatment following femtosecond laser-assisted cataract surgery with multifocal lens implantation</p> <p>14.30 Discussion</p> <p>14.38 A. Fisis, N. Hirschall, S. Maedel, M. Weber, P. Draschl, O. Findl <i>AUSTRIA</i>
Capsular bag performance of a novel hydrophobic acrylic single-piece intraocular lens: two year results of a randomised controlled trial</p> <p>14.44 A. Hillenmayer, C. Wertheimer, S. Kassumeh, A. von Studnitz, A. Ohlmann, S. Priglinger, W. Mayer <i>GERMANY</i>
Evaluation of posterior capsule opacification of the Alcon Clareon IOL vs the Alcon Acrysof IOL using a human capsular bag model</p> <p>14.50 L. Ma, B. Lu, J. Zhang <i>CHINA</i>
Assessment of posterior capsule opacification by optical quality analysis system and its utility for decision making in Nd:YAG laser posterior capsulotomy</p> | <p>14.56 L. Zhang, G. Labuz, P. Poompokawat, I. Lieberwirth, P. Merz, R. Khoramnia, G. Auffarth <i>GERMANY</i>
Assessment of the posterior edge profile of hydrophobic intraocular lenses using scanning electron microscopy</p> <p>15.02 S. Daryabari, H. Aghamollaei, K. Jadidi, M. Naderi <i>IRAN</i>
In silico design of new inhibitors for crystalline aggregation as a new approach in treatment of congenital cataract</p> <p>15.08 Discussion</p> <p>15.16 K. Næser, G. Savini <i>DENMARK</i>
The accuracy of thick-lens intraocular lens power calculation based on cutting card or calculated data for lens architecture</p> <p>15.22 N. Hirschall, S. Amir Asgari, J. Hienert, H. Matz, O. Findl <i>AUSTRIA</i>
Novel intraoperative swept-source optical coherence tomography measurements of the aphakic eye for intraocular lens position prediction</p> <p>15.28 Z. Khatib, S. Haldipurkar, P. Nagvekar, H. Dahake, Y. Trivedi, A. Patel, P. Kashelkar <i>INDIA</i>
Comparison of three newer generation freely available intraocular lens power calculation formulae across all axial lengths</p> <p>15.34 A. Jain, G. Gupta, C. Malhotra, M. Bansal <i>INDIA</i>
Refractive outcome of intraoperative aberrometry in predicting intraocular lens power in short eyes and comparing it with optical biometry</p> <p>15.40 J. Fernández, M. RodriguezVallejo, J. Martínez, A. Tauste, D. Piñero <i>SPAIN</i>
Bias correction in the intraocular lens power calculation beyond the effective lens position through the corneal fictitious index fitting with a thick lens paraxial formula</p> <p>15.46 M. Tessler, D. Zadok, D. Smadja, Y. Weill, E. Gelman, A. Abulafia <i>ISRAEL</i>
Biometric characteristics of Israeli candidates for cataract surgery</p> <p>15.52 Discussion</p> <p>16.00 End of session</p> |
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14.00 – 16.00

FREE PAPER SESSION

Corneal Refractive Surgery

Free Paper Forum: Podium 3

Chairperson: **W. Mayer** *GERMANY*Co-Chairperson: **A. Saad** *FRANCE*

- 14.00 **Y. Kim, Y. Yoo, K. Shin, D. Lim, T. Chung** *SOUTH KOREA*
Visual and refractive outcomes after wavefront-optimised, conventional topography-guided, and topography-modified refraction LASEK in myopia and myopic astigmatism
- 14.06 **C. Zhai, L. Zhang, Y. Zheng, J. Zhang** *CHINA*
Quality of-vision after topography-guided and wavefront-optimised FS-LASIK
- 14.12 **S. Vukelic, C. Wang, J. Fan, M. Fomovsky, M. Mencattelli, S. Vukelic** *USA*
Correction of refractive errors with femtosecond laser corneal cross-linking in absence of photosensitizers
- 14.18 **B. Gjerdrum, K. Gundersen, B. Aakre** *NORWAY*
Comparing the prevalence of ocular surface disorder in patients who underwent refractive surgery (laser vision correction or implantable collamer lens) 5-15 years ago to a similar population with no history of surgery
- 14.24 **E. Manche, K. Hirabayashi** *USA*
A comparison of wavefront-guided LASIK to SMILE surgery: six month outcomes
- 14.30 **A. Koshy, R. Shetty, A. Sinha Roy, Z. Dadachanji, G. Kundu** *INDIA*
Comparison of visual and corneal aberrometric outcomes and depth of focus between transepithelial photorefractive keratectomy (TPRK), laser-assisted in situ keratomileusis (LASIK) and small incision lenticule extraction (SMILE)
- 14.36 Discussion
- 14.51 **B. Yildiz, D. Bektasoglu, O. Sonmez, Y. Yildirim, A. Agca** *TURKEY*
Comparison of posterior corneal changes after femtosecond-assisted laser in situ keratomileusis (Femto-LASIK) and small incision lenticule extraction (SMILE)
- 14.57 **T. Archer, D. Reinsteint, G. Carp, R. Vida** *UK*
Comparison of change in mean topographic keratometry with spherical equivalent refraction after LASIK and SMILE
- 15.03 **A. Sharma, M. Vanathi, N. Gupta, R. Tandon, S. Khokhar** *INDIA*
Evaluation of posterior corneal astigmatism changes in femtosecond LASIK and SMILE
- 15.09 **I. Solomatins, A. Solomatins, M. Solomatins** *LATVIA*
Comparison of the outcomes of astigmatic correction between small incision lenticule extraction and femtosecond laser vision correction
- 15.15 **I. Toprak, M. Canto-Cerdan, J. Alio del Barrio, L. CasanovaBlanquer, J. Alio Sanz** *TURKEY*
Comparison of corneal epithelial response after femtosecond laser-assisted laser in situ keratomileusis (LASIK) and small incision lenticule extraction (SMILE)
- 15.21 **H. Elbedewy, M. Sabry** *EGYPT*
Effect of cycloplegic eye drops on pain after photorefractive keratectomy (PRK) and corneal collagen cross-linking
- 15.27 **A. Abdelghany, J. Alió, A. Eid, M. Genaidy, A. Abdelhalim** *EGYPT*
Hyperopic LASIK with and without corneal collagen cross-linking
- 15.33 **C. Wertheimer, K. Brandt, S. Kaminsky, C. Elhardt, S. Kassumeh, R. Anderson, R. Birngruber** *USA*
Corneal stromal filler injection for the correction of hyperopia
- 15.39 Discussion
- 16.00 End of session

14.00 – 16.00

FREE PAPER SESSION

Ocular Pathology/Education & Training

Free Paper Forum: Podium 4

Chairperson: C. Grupcheva *BULGARIA*

Co-Chairperson: A. Rousseau *FRANCE*

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| <p>14.00 S. Poh, Y. Tham, E. Fenwick, W. Dai, M. Chee, T. Wong, C. Cheng <i>SINGAPORE</i>
Association between macular thickness and visual function in healthy individuals: the Singapore Epidemiology of Eye Diseases (SEED) study</p> <p>14.06 M. Ahad, M. Al Amro, A. Al Qarni, S. Al Swailem <i>SAUDI ARABIA</i>
Risk of microbial keratitis following corneal collagen cross-linking for corneal ectasia</p> <p>14.12 D. Ulusoy, E. Ulusoy, Z. Duru, A. Çiçek <i>TURKEY</i>
Evaluation of corneal morphology in patient with hemifacial spasm</p> <p>14.18 Discussion</p> <p>14.30 M. El Zarif, J. Alió, J. Alió Del Barrio <i>SPAIN</i>
Corneal stroma regeneration with cellular therapy: confocal study</p> <p>14.36 A. Gad, K. Muhamed <i>EGYPT</i>
One-year evaluation of clinical and immunological efficacy and safety of sublingual vs subcutaneous allergen immunotherapy in allergic conjunctivitis</p> <p>14.42 C. Mastromonaco, M. Balazsi, D. Rao, R. Nojiri, T. Figueiredo, N. Sahib, M. Burnier <i>CANADA</i>
Histopathological software analysis of the trabecular meshwork and corneal endothelium between anterior and posterior chamber intraocular lenses in donor eyes</p> <p>14.48 Discussion</p> <p>15.00 J. Craig, A. Xue, M. Wang, S. Ormonde <i>NEW ZEALAND</i>
Cumulative benefits of intense regulated pulsed light therapy for Meibomian gland dysfunction identified in a double-masked randomised controlled clinical trial</p> <p>15.06 T. Wong, C. Wong, B. Czarny, B. Metsalaar, G. Storm <i>SINGAPORE</i>
Evaluation of a liposomal steroid sustained drug</p> <p>15.12 W. Shihadeh, M. Khalil <i>JORDAN</i>
Bilateral total iris atrophy and refractory glaucoma following cosmetic artificial iris implants</p> <p>15.18 Y. Buys, D. Mathew, B. McKay, A. Basilious, A. Belkin, G. Trope <i>CANADA</i>
Microinvasive glaucoma surgery: compliance with the World Glaucoma Association Guidelines on Design and Reporting of Glaucoma Surgical Trials</p> <p>15.24 Discussion</p> | <p>15.30 I. Bahar, Y. Yassur, G. Adler <i>ISRAEL</i>
Does postoperative self-debriefing affect the learning curve of residents' cataract surgery?</p> <p>15.36 C. Martin Reyes, K. Dalrymple, P. Gomez Borrero <i>SPAIN</i>
Exploring interprofessional collaboration and learning between ophthalmologists and managers in a private Spanish institution in order to make grounded recommendations for improvement</p> <p>15.42 M. Lefebvre, C. Le Pape, F. Mouriaux <i>FRANCE</i>
Management of children's ocular disorders during paediatric consultations</p> <p>15.48 S. Alenezi, A. Alfawaz, A. Al Owaifeer, S. Althiabi, K. Tabbara <i>SAUDI ARABIA</i>
Assessment of ophthalmology residency programs in Saudi Arabia: a trainee-based survey</p> <p>15.54 Discussion</p> <p>16.00 End of session</p> |
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14.00 – 16.00

INSTRUCTIONAL COURSES

IC116 **Management of dissatisfaction after multifocal IOL (B)**

G. Muñoz *SPAIN*, F. Llovet Osuna *SPAIN*,
S. Rohrweck *SPAIN*, J. Ortega-Usobiaga *SPAIN*,
M. Martínez *SPAIN*, M. Cabanás *SPAIN*
West 1

IC117 **Complications in LASIK: prevention and management (B)**

EBO

J. Vryghem *BELGIUM*, M. Assouline *FRANCE*,
G. Sallet *BELGIUM*, A. Kanellopoulos *GREECE*,
G. Pamel *USA*
West 2

IC118 **ReLEx SMILE tips and pearls for curious beginners (B)**

YO

D. Breyer *GERMANY*, L. Kiraly *GERMANY*,
W. Sekundo *GERMANY*, R. Wiltfang *GERMANY*
West 3

IC119 **Descemet's membrane endothelial keratoplasty challenges (A)**

G. Melles *THE NETHERLANDS*,
L. Baydoun *THE NETHERLANDS*,
I. Dapena *THE NETHERLANDS*,
S. Ní Dhubhghaill *IRELAND*,
L. Ham *THE NETHERLANDS*,
K. van Dijk *THE NETHERLANDS*
West 4

IC120 **The transition from cataract surgery to refractive cataract surgery (A)**

R. Morris *UK*, P. Rosen *UK*, A. Shortt *UK*,
R. Packard *UK*, M. Wevill *UK*
West 5

IC121 **Updates on ocular inflammation for the cataract and refractive surgeon (I)**

NEW

R. Pinto Proenca *PORTUGAL*, J. Cunha *PORTUGAL*,
I. Domingues *PORTUGAL*, P. Gil *PORTUGAL*,
R. Proença *PORTUGAL*, M. Dutra Medeiros *PORTUGAL*,
N. Moura-Coelho *PORTUGAL*
West 6

14.00 – 15.00

INSTRUCTIONAL COURSE

IC122 **How to get to #1 in your market (I)**

NEW

D. Evans *USA*
West 7

(A) Advanced (B) Basic (I) Intermediate
Handouts available at www.es CRS.org

14.00 – 15.00

MODERATED POSTER SESSION

Poster Village: Pod 2

Cornea

Moderators: R. Bellucci *ITALY*
J. Güell *SPAIN*

14.00 F. Hafezi, R. Shetty, B. Knyazer, S. Chen,
N. Hafezi, E. Torres-Netto *SWITZERLAND*
Corneal cross-linking for the treatment of
infectious keratitis: multicentre trial results

14.08 E. Torres-Netto, T. Seiler, S. Adamcik,
F. Gilardoni, H. Abdshahzadeh,
F. Hafezi *SWITZERLAND*
Corneal cross-linking for progressive keratoconus:
10-year outcomes

14.16 G. Martin, P. Lebranchu, P. Dureau, I. Cochereau,
J. Devys, G. Caputo, E. Gabison *FRANCE*
Descemet's membrane endothelial keratoplasty
(DMEK) in infants with congenital endothelial
dysfunction: intraoperative OCT-assisted surgery

14.24 S. Koay, M. Lewis, R. Angunawela *UK*
Interfacial fluid dynamics in Descemet's
membrane endothelial keratoplasty

14.32 M. Pellegrini, F. Bernabei, G. Giannaccare *ITALY*
The association between obstructive sleep
apnea and keratoconus: a systematic review
and meta-analysis

14.40 M. Green, A. Apel, F. Stapleton *AUSTRALIA*
Queensland microbial keratitis database,
2005-2015

14.48 S. Hamada, F. Sahin, C. Fassari, I. Lanzl,
N. Maycock, M. Zierhut *UK*
Real-world clinical effectiveness and safety
of cyclosporine eye drop emulsion in patients
with dry eye disease and severe keratitis (the
PERSPECTIVE study): 24-week interim analysis

14.56 Discussion

15.00 End of session

16.30 – 18.00

FREE PAPER SESSION

New IOL Optic Design

Free Paper Forum: Podium 1

Chairperson: R. Packard *UK*

Co-Chairperson: C. Albou-Ganem *FRANCE*

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| 16.30 | D. Tognetto, R. Giglio, R. Merli, G. Veroi, A. Beccastrini, C. De Giacinto <i>ITALY</i>
Visual outcomes of an innovative monofocal intraocular lens with modified optical profile: a randomised controlled clinical study | 17.43 | A. Janekova, R. Zugar, J. Pasta, M. Janek <i>CZECH REPUBLIC</i>
Clinical experience with Tetraflex HD IOL |
| 16.36 | B. Dick, F. Hengerer, S. Srinivasan, A. Cummings <i>GERMANY</i>
Multicentre evaluation of visual acuity, refractive and quality of vision results following bilateral implantation of an intraocular lens (IOL) that can be non-invasively adjusted after implantation | 17.49 | Discussion |
| 16.42 | H. Uy, C. de Lespinay <i>PHILIPPINES</i>
One year refractive outcomes after enhancement by optic exchange among eyes that received a multicomponent intraocular lens | 18.00 | End of session |
| 16.48 | U. Devgan, T. Kohnen, E. Donnenfeld, K. Solomon, S. Garg, R. BragaMele <i>USA</i>
Dual-optic curvature-changing modular design presbyopic IOL | | |
| 16.54 | T. Kohnen, E. Donnenfeld, K. Solomon <i>GERMANY</i>
Visual outcomes in patients implanted with a new modular two piece curvature-changing fluid-optic intraocular lens | | |
| 17.00 | Discussion | | |
| 17.08 | R. Zaldivar <i>ARGENTINA</i>
Using small-aperture optics to treat post corneal refractive surgery patients with cataracts | | |
| 17.14 | S. Schmickler, O. Carlsburg <i>GERMANY</i>
Options for patient selection of monocular implantation of a small aperture intraocular lens: a retrospective analysis | | |
| 17.20 | Discussion | | |
| 17.25 | B. Soares, J. Beltz <i>AUSTRALIA</i>
Moderate monovision vs mini-monovision with a small-aperture intraocular lens: visual outcomes and patient satisfaction | | |
| 17.31 | C. Moshegov <i>AUSTRALIA</i>
Small aperture IC-8 intraocular lens in cataract patients: multicentre experience in Australia | | |
| 17.37 | L. Werner, V. Balendiran, C. Shumway, N. Ellis, B. Jiang, K. Kamae, N. Mamalis <i>USA</i>
Evaluation of the biocompatibility of an IOL embedded with an intraocular pressure sensor in the rabbit model | | |

16.30 – 18.00

FREE PAPER SESSION

Monofocal IOLs: New Biomaterials
& Visual Performance

Free Paper Forum: Podium 2

Chairperson: D. Epstein *SWITZERLAND*Co-Chairperson: B. Johansson *SWEDEN*

- 16.30 **N. Stanojcic, V. Wagh, E. Azan, M. Bhogal, J. Li, C. Hull, D. O'Brart** *UK*
Randomised controlled study comparing two monofocal hydrophobic acrylic intraocular lenses: the Clareon® and Tecnis PCB00® – six-month results
- 16.36 **R. Canones, M. Teus, J. Gros-Otero, M. GarciaGonzalez, S. Casado, S. Ketabi, C. Villa** *SPAIN*
Analysis of the surface roughness of six different hydrophobic IOLs with atomic force microscopy
- 16.42 **A. Bradley, R. Xu, M. Jaskulski** *USA*
Impact of intraocular lens materials on polychromatic image quality in pseudophakic eyes
- 16.48 **S. Marcos, M. Romero, C. Benedi-Garcia, A. Gonzalez-Ramos, M. Vinas, N. Alejandro, I. Jimenez-Alfaro** *SPAIN*
Longitudinal chromatic aberration and its impact on image quality in patients implanted with the Clareon® IOL
- 16.54 Discussion
- 17.00 **W. Goslings, J. Van de Laar, A. Dekker** *THE NETHERLANDS*
First real-world experience with a new monofocal lens design
- 17.06 **M. Bolz, J. Wendelstein** *AUSTRIA*
Clinical outcomes of a new monofocal hydrophilic acrylic intraocular lens with a large optic diameter and cut-out haptics
- 17.12 **R. Mencucci, M. Cennamo, D. Venturi, E. Favuzza** *ITALY*
New monofocal IOLs and the challenge of the intermediate distance
- 17.18 **L. Daniel Ponniah, H. Anandan** *INDIA*
A comparison of optical and visual performance of different premium hydrophobic acrylic aspheric IOLs
- 17.24 **H. Fang, S. Schickhardt, Q. Wang, D. Munro, P. Wolfe, R. Jain, G. Auffarth** *GERMANY*
Removal-time evaluation of a new hydrophobic acrylic intraocular lens and an ophthalmic viscoelastic device
- 17.30 Discussion
- 17.36 **F. Mokhtari, L. Broissand, A. Henni, D. Iossifov** *FRANCE*
Comparative refractive accuracy during PKE of four IOLs: TFNTx, SN6ATX, SV25Tx and AU00TO
- 17.42 **P. Hoffmann** *GERMANY*
3D analysis of lens geometry before and after cataract surgery
- 17.48 **J. Hienert, N. Hirnschall, C. Pilwachs, M. Ruiss, K. Kefer, B. Döller, O. Findl** *AUSTRIA*
Prospective comparative fellow-eye clinical trial to evaluate the axial position stability of CT LUCIA 611P and CT ASPHINA 409MP IOLs
- 17.54 Discussion
- 18.00 End of session

TUESDAY 17 SEPTEMBER

16.30 – 18.00

FREE PAPER SESSION

Corneal Presbyopia & Astigmatism Correction

Free Paper Forum: Podium 3

Chairperson: **B. Ameline** *FRANCE*

Co-Chairperson: **A. Crnej** *SLOVENIA*

- | | |
|--|---|
| <p>16.30 C. Lwowski, M. Herzog, K. Petermann, E. Hemkeppler, R. Forster, M. Böhm, T. Kohnen <i>GERMANY</i>
Safety and efficiency of a presbyopia-correcting bifocal intracorneal implant in emmetropic patients: 6 month results</p> <p>16.36 G. Benozzi, J. Leiro, S. Facal, C. Perez, B. Orman <i>ARGENTINA</i>
Innovative pharmacological treatment for presbyopia: Benozzi's method</p> <p>16.42 Discussion</p> <p>16.44 D. Breyer, H. Kaymak, K. Klabe, P. Hagen, L. Beckers, F. Kretz, G. Auffarth <i>GERMANY</i>
Time-averaged long-term outcomes after small incision lenticule extraction for myopia correction: comparison with femtosecond laser-assisted LASIK</p> <p>16.50 K. Kudlu, V. Jain, H. Vokuda, S. Girish <i>INDIA</i>
Laser-blended vision correction in emmetropic presbyopes</p> <p>16.56 A. Stuart, D. Reinstein, G. Carp, T. Archer, R. Vida <i>UK</i>
PRESBYOND laser blended vision in commercial and military pilots requiring class 1 medical certification</p> <p>17.02 S. Anisimova, S. Anisimov, S. Semyonov, I. Novak, L. Fastovtsova <i>RUSSIA</i>
Inclusion criteria and long-term results of bilateral presbyopia correction by SUPRACOR method</p> <p>17.08 S. Rowen, A. Hipsley, J. Mehta, Y. Liu, B. Hall <i>USA</i>
Optimisation of analysis of scleral micropores in presbyopes after laser scleral microporation using ocular coherence tomography (OCT)</p> <p>17.14 S. Shah, A. Hipsley, M. Jackson, R. Ang, L. Gualdi, M. Rau <i>UK</i>
Accommodative changes and visual outcomes after laser scleral microporation</p> <p>17.20 T. Seiler, M. Jankov, T. Seiler <i>SWITZERLAND</i>
Lenticule intrastromal keratoplasty (LIKE) for presbyopia</p> <p>17.26 Discussion</p> <p>17.34 L. Schwarzenbacher, D. Schartmueller, V. Roeggler, C. Leydolt, R. Menapace <i>AUSTRIA</i>
Arcuate keratotomy in patients with astigmatism up to 3 diopters using low-pulse energy femtosecond laser: three month results</p> | <p>17.40 A. Osman, A. El Zarga, M. Gamal, M. Khafagy, I. Osman <i>EGYPT</i>
Vector analysis of femtosecond laser-assisted arcuate keratotomy for post-keratoplasty astigmatic correction</p> <p>17.46 M. El Naggat, A. Saied, W. El Shaer <i>EGYPT</i>
Efficacy and safety of femtosecond laser arcuate keratotomy for correction of mixed astigmatism: a six month follow-up</p> <p>17.52 Discussion</p> <p>18.00 End of session</p> |
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16.30 – 18.00

FREE PAPER SESSION YO

Quality of Vision Evaluation

Free Paper Forum: Podium 4

Chairperson: A. Day *UK*Co-Chairperson: A. Behndig *SWEDEN*

- 16.30 **M. Dari, S. Khan, M. Grzeda, J. Sparrow** *UK*
Patient-reported outcome measures (PROMs) using Cat-PROM5 following cataract surgery in a multi ethnic London population
- 16.36 **N. Hauranieh, P. Giardini** *ITALY*
Near and intermediate visual acuity: chart vs digital – the first step towards quality of vision evaluation techniques
- 16.42 **T. Muller, P. Zakharov** *SWITZERLAND*
The visual behaviour monitor: a new preoperative tool for comprehensive visual assessment in cataract and refractive surgery
- 16.48 **B. Zijlmans, A. Knitel, Y. Sharifi, C. Storimans, L. Ugahary, M. Manzulli** *THE NETHERLANDS*
Cataract patient-reported outcome measures (PROMs): which clinical parameters negatively influence the quality of vision experienced after surgery?
- 16.54 Discussion
- 17.06 **J. Alió, A. Plaza-Puche, J. Balgos** *SPAIN*
Optical quality obtained with a pyramidal aberrometer after multifocal or accommodative intraocular lens implantation
- 17.12 **S. Amir-Asgari, I. Baumhauer, N. Hirnschall, M. Rieß, M. Agiorgiotakis, S. Plainis, O. Findl** *AUSTRIA*
Evaluation of a novel measurement method using an eye-tracking device to assess quality of reading with different presbyopia correcting approaches
- 17.18 **A. Kiliç, A. Cummings, B. Pajic, M. Mrochen** *TURKEY*
Understanding patients' visual lifestyle needs objectively compared with the ophthalmologist's subjective prediction
- 17.24 Discussion
- 17.30 **B. Pajic, B. Dick** *SWITZERLAND*
Patient satisfaction following objective analysis of visual behaviour
- 17.36 **H. Son, T. Yildirim, H. Wallek, D. Varadi, I. Baur, J. Usinger, G. Auffarth** *GERMANY*
Halo and glare evaluation in EDOF, trifocal, and monofocal intraocular IOLs
- 17.42 **M. Puzo, F. BartolPuyal, G. Giménez Calvo, I. Altemir, J. Larrosa, V. Polo, L. Pablo** *SPAIN*
Spherical aberration differences in intraocular lenses of the same platform
- 17.48 **P. Nagvekar, S. Haldipurkar, V. Shetty, Z. Khatib, P. Sankhe, P. Das, D. Shah** *INDIA*
To compare quality of life and dysphotopsia in four groups of patients
- 17.54 Discussion
- 18.00 End of session

TUESDAY 17 SEPTEMBER

17.00 – 20.00

ISRS SYMPOSIUM

Oh, La, La: What's Hot in Refractive, Cornea & Cataract Surgery

North 3

Chairpersons: D. Gatinel *FRANCE*
S. Jacob *INDIA*
S. Yoo *USA*

Welcome from the Chairpersons

Refractive

Moderators: R. Ambrosio Jr *BRAZIL*, R. Krueger *USA*

Panellists: J. Güell *SPAIN*, A. Kilic *TURKEY*,
R. Shetty *INDIA*

- 17.00 **R. Rajpal** *USA*
Cross-linking for refractive error correction
- 17.07 **D. Reinstein** *UK*
Complications of SMILE
- 17.14 **S. Melki** *USA*
Complications of LASIK
- 17.21 **R. Ambrosio Jr** *BRAZIL*
Enhanced screening for ectasia risk prior to laser vision correction
- 17.28 **M. Santhiago** *BRAZIL*
PTA: what's new?
- 17.35 **D. Gatinel** *FRANCE*
New wavefront decomposition method to improve customized corrections
- 17.42 Discussion

Cornea

Moderators: J. Hjortdal *DENMARK*, B. Randleman *USA*

Panellists: R. Epstein *USA*, C. Perez Straziota *USA*
T. Seiler *SWITZERLAND*, A. Tourkmani *UK*

- 17.45 **S. Yoo** *USA*
Corneal microlayer tomography for the diagnosis of keratoconus
- 17.52 **B. Randleman** *USA*
Brillouin imaging for corneal biomechanics
- 17.59 **S. Jacob** *INDIA*
CAIRS: improving refraction and quality of vision
- 18.06 **M. Mimouni** *ISRAEL*
CXL techniques for thin corneas
- 18.13 **Y. McKee** *USA*
DMEK: complex cases
- 18.20 **A. Agarwal** *INDIA*
PDEK: complex cases
- 18.27 Discussion

Cataract & Lens-Based

Moderators: A. Agarwal *INDIA*, G. Beiko *CANADA*,
S. Masket *USA*

Panellists: S. Arshinoff *CANADA*, H. Bissen-Miyajima *JAPAN*
M. Tsatsos *GREECE*, S. Yamane *JAPAN*

- 18.30 **A. Agarwal** *INDIA*
IOL scaffolding techniques
- 18.37 **A. Saad** *FRANCE*
The perfect pupil SFT and PPP
- 18.44 **S. Masket** *USA*
Negative dysphotopsias and their surgical correction
- 18.51 **J. Alió** *SPAIN*
Multifocal IOL exchange: causes and indications
- 18.58 **J. Chang** *HONG KONG*
Lens exchange for dissatisfied multifocal IOL patients
- 19.05 **K. Donaldson** *USA*
Top 10 innovations and future directions for cataract surgery
- 19.12 Discussion

In the Future

Moderators: J. Chang *HONG KONG*, R. Maloney *USA*

Panellists: S.P. Chee *SINGAPORE*, S. Daya *UK*
Z. Nagy *HUNGARY*, K. Rocha *USA*

- 19.15 **G. Waring IV** *USA*
Refining the IOL: refractive indexing
- 19.22 **S. MacRae** *USA*
Refining the cornea: refractive indexing
- 19.29 **D. Smadja** *ISRAEL*
Nanodrops
- 19.36 **R. Krueger** *USA*
Tissue addition refractive correction and eye banking: is it the future?
- 19.43 **G. Debellemanière** *FRANCE*
IOL power calculation: artificial intelligence to the rescue
- 19.50 **P. Stodulka** *CZECH REPUBLIC*
Robotic laser technology for cataract surgery (Keranova)
- 19.57 Discussion
- 20.00 End of session

A large teal graphic consisting of two overlapping triangles that meet at a diagonal line from the top-left to the bottom-right, creating a diamond-like shape in the center.

WEDNESDAY

18 September

WEDNESDAY 18 SEPTEMBER

08.30 – 10.45

'BEST OF THE BEST' REVIEW SESSION

North 4

Chairpersons: **O. Findl** *AUSTRIA*
B. Malyugin *RUSSIA*

A review of a selection of the most interesting videos and presentations given during the Congress.

Join the chairpersons and discussants as they discuss some of the new ideas that emerged over the course of the week.

The Best Videos

08.30 **Discussants:** **E. Assia** *ISRAEL*
A. Brézin *FRANCE*
L. Buratto *ITALY*
J. Güell *SPAIN*

The Best Presentations

09.40 **Discussants:** **R. Bellucci** *ITALY*
B. Cochener-Lamard *FRANCE*
J. Mehta *SINGAPORE*
R. Nuijts *THE NETHERLANDS*

10.45 End of session

11.00 – 13.00

MAIN SYMPOSIUM

Long-Term Implications of Standard Refractive Procedures

North 3

Chairpersons: **J. Güell** *SPAIN*
F. Malecaze *FRANCE*

- 11.00 **L. Buratto** *ITALY*
Laser-assisted in situ keratomileusis (LASIK)
- 11.15 **D. Epstein** *SWITZERLAND*
Photorefractive keratectomy (PRK)
- 11.30 Discussion
- 11.40 **D. Touboul** *FRANCE*
Corneal ring segments
- 11.55 **J. Mehta** *SINGAPORE*
Corneal inlays
- 12.10 Discussion
- 12.20 **R. Nuijts** *THE NETHERLANDS*
Phakic IOLs
- 12.35 **R. Bellucci** *ITALY*
Refractive lens exchange
- 12.50 Discussion
- 13.00 End of session



E-POSTERS

E-POSTERS

Terminals are located in the Poster Village.

First, second and third prizes of €2,000, €1,000 and €500 are awarded to the best cataract and refractive posters.

Posters are judged according to the following criteria:

- Originality
- Scientific quality
- Relevance to clinical practice
- Presentation

The prizes will be awarded during the Video Awards Session on Sunday 15 September at 14.00 in North 3.

In order to receive the prize, the poster presenters must be present at the Awards Session.

Anaesthesia

M. Cennamo, E. Favuzza, G. Scali, R. Mencucci *ITALY*
Cataract surgery: the effects on the cornea and the ocular surface of intracameral mydriatic and anaesthetic combination vs topical eye drops

G. Kontadakis, V. Peponis, A. Vernikou, M. Gerakidis, P. Koumoutsos, E. Themistokleous, E. Parikakis *GREECE*
Cataract surgery: is an anaesthesiologist necessary?

Cataract: IOL Dislocations

J. Cai, L. Wu *CHINA*
Treatment of severe lens subluxation by femtosecond laser and modified four-point ciliary sulcus suture fixation combined with capsular tension ring

D. Dzhaber, O. Mustafa, Y. Daoud *USA*
Iris-sutured intraocular lens fixation combined with Descemet's stripping automated endothelial keratoplasty

C. Feraru, A. Pantalon *ROMANIA*
Complications for sulcus placement of single piece IOLs

J. Teope, V. Caparas, A. Salud, K. Duyongco-Lenon, G. Alog *PHILIPPINES*
Repair of corneal button dehiscence with collapsed globe caused by blunt trauma

G. Zhurgumbayeva, A. Dzhabarkhanova, L. Tashtitova, D. Kyrykbayev *KAZAKHSTAN*
Repositioning of the 'capsular bag, intracapsular ring, IOL' complex following its dislocation in cases of pseudoexfoliation syndrome

Cataract: IOL Opacifications

F. Bartol-Puyal, C. Almenara, D. Soriano, M. Idoipe, J. Larrosa, V. Polo, L. Pablo *SPAIN*
Posterior capsule opacification comparison between Tecnis and Clareon platforms: a six-month study

F. Bartol-Puyal, D. Soriano, C. Almenara, A. Blasco, J. Larrosa, V. Polo, L. Pablo *SPAIN*
Subjective gradation system of posterior capsule opacification intensity: repeatability and reproducibility

P. Gartaganis, P. Natsi, S. Alimisi, S. Gartaganis, P. Koutsoukos *GREECE*
Experimental modelling of delimited calcification of hydrophilic intraocular lenses using intraocular air or gas

K. Kawai *JAPAN*
Analysis of the deterioration of acrylic intraocular lenses

B. Ko *SOUTH KOREA*
Opacification of hydrophilic intraocular lens during implantation: case report

S. Leboukhe, L. Degdeg, S. Alaeddine, H. Ababsa *ALGERIA*
Preoperative IOLs opacification: should we explant them?

M. Lippera, S. Lippera, A. Iannone, G. Pallotta, P. Ferroni, S. Morodei *ITALY*
Opacification of hydrophilic intraocular lenses after deep anterior lamellar keratoplasty (DALK)

T. Martínez Rincón, C. Almenara, D. Soriano, F. Bartol-Puyal, V. Polo, J. Larrosa, L. Pablo *SPAIN*
Evolution of posterior capsule opacification and vision with Tecnis and Clareon intraocular-lens platforms

M. Phylactou, F. Matarazzo, K. Saha *UK*
Modified Nd:YAG anterior capsulotomy for complete anterior capsular contraction syndrome

T. Yildirim, G. Łabuz, R. Khoramnia, H. Son, S. Schickhardt, G. Auffarth *GERMANY*
Impact of severe intraocular lens calcification on the optical quality of segmental multifocal intraocular lenses

Cataract Surgery Complications/Management

P. Agarwal, S. Navon *UAE*
XtraFocus Pinhole IOL: a novel approach for anterior segment reconstruction addressing irregular astigmatism and irregular pupils

S. Al Zaaidi, T. Bin Dakhil, A. AlRajhi *SAUDI ARABIA*
Is it OK to delay phaco post-op visit?

A. Altintas, A. Kocer *TURKEY*
Evaluating the presence of pseudoexfoliation syndrome in cumulative dissipated energy level in phacoemulsification surgery

M. Amber *EGYPT*
Stop-chop and flip technique: a technique for hard cataracts

H. Arzoallxhiu, N. Polloshka-Arzoallxhiu, H. Gashi, I. Jurik *KOSOVO*
Safety and efficiency of phaco surgery in various types of post-uveitic cataracts

M. Bhattacharjee, G. Chandrashekar, V. Mohite, S. Agarwala, A. Mahindrakar *INDIA*
Postoperative refractive surprise due to manufacturing defect of customised toric intraocular lens

S. Brar *INDIA*

Long-term outcome of retrofixated iris-claw lens at a tertiary eye centre in Uttarakhand, India

P. Burgos Fernandez, A. Matheu Fabra, P. Marti Rodrigo, J. Armentia Perez De Mendiola, M. Saint-Gerons Trecu *SPAIN*

Anterior chamber ointment globule found four years after uneventful phacoemulsification

S. Chaudhary, R. Chaudhary, S. Jindal *INDIA*

Posterior capsule rent (PCR) management with anterior chamber maintainer (ACM), 23 gauge vitrector, posterior rhexis and IOL optic capture

H. Chawla, V. Vohra, A. Khan *INDIA*

Outcomes of pneumatic descemetopexy for Descemet's membrane detachment after cataract surgery

E. Danilenko, A. Kulikov, S. Churashov, D. Shamrey, V. Kondratov *RUSSIA*

Comparative analysis of phacoemulsification cases complicated by zonular weakness

S. Del Prete, A. Del Prete, S. Troisi, M. Troisi, D. Marasco *ITALY*

Usefulness of scanning electron microscopy (SEM) in the diagnosis of Acanthamoeba keratitis: case report

S. Della Maggiore, A. Mannini, P. Martinelli, S. Murri, M. Romagnoli, A. Vento *ITALY*

Surgical management of aphakia: from anterior chamber lenses to sutureless scleral fixation foldable lenses

M. Farouk *EGYPT*

Complications and contraindications of hydroimplantation technique of foldable intraocular lens

N. Gozum, Z. Cebeci, M. Guner, N. Kir *TURKEY*

Retinal toxicity after intracameral injection of a high dose of cefuroxime

A. Grzybowski, A. Aaronson, R. Tuuminen *POLAND*

The health/economic impacts of posterior capsule opacification in Finland comparing two single-piece intraocular lenses: a cost-consequence analysis

F. Hermoso Fernández, J. Muñoz de Escalona Rojas, R. Anaya Alaminos, M. Perez de Andrade *SPAIN*

Management of acute and chronic fluid misdirection syndrome: factors that have to be taken into account

A. Iatcun, N. Kuznetsova, V. Kurenkov, O. Vasilyeva *RUSSIA*

Experience of using pointed applanation tonometer and traditional pneumotonometer in the early postoperative period after LASIK and cataract surgery

B. Ilango, T. Jenyon *UK*

New surgical technique to minimise negative dysphotopsia symptoms

A. Issa, E. Faraj *IRAQ*

Impact of surgical experience on early postoperative regional corneal thickness after phacoemulsification

A. Kee, L. Lee *SINGAPORE*

Surgical outcome of extracapsular cataract extraction performed by junior resident trainees: should you be concerned?

B. Kemer Atik, C. Altan, A. Agca *TURKEY*

Early and long-term complications of secondary intraocular lens implantation with scleral fixation

A. Kocer, A. Altintas *TURKEY*

Nd:YAG laser treatment of capsule contraction syndrome associated with Irvine Gass syndrome

A. Kozhukhov, O. Unguryanov, T. Dinh *RUSSIA*

Microinvasive reposition technique for posterior chamber IOLs with suturing through pars plana of the ciliary body without the use of viscoelastic

S. Loukovaara, V. Lehtinen, R. Nieminen, J. Moilanen *FINLAND*

Surgical cataract process and topical medication in the biggest tertiary eye hospital in Finland during 2015–2018

S. Matic, I. Pivic-Kovacevic, J. Barac, M. Jelic-Vukovic, M. Matic *CROATIA*

Changes in tear film and their influence on visual acuity after uncomplicated phacoemulsification cataract surgery

M. Melnik, N. Anisimova, N. Shilova, A. Belodedova, J. Uzunyan, B. Malyugin *RUSSIA*

Postoperative dynamics of the vitreolenticular and vitreoretinal interface followed by cataract surgery

Y. Mori, T. Tokunaga, K. Kinoshita, T. Iwasaki, K. Minami, K. Kamiya, K. Miyata *JAPAN*

Comparison of four intraocular lens power calculations for Japanese eyes with short and long axial lengths

S. Moutzouri, A. Diafas, N. Xanthopoulou, P. Kazantzidou, I. Chalkias, E. Chalkias, D. Stampouli *GREECE*

Extracapsular extraction of hypermature dislocated cataractous lens and liquefied retrocapsular lens cortex material by an anterior segment surgeon

M. Nagata, H. Matsushima, T. Senoo *JAPAN*

Comparison of anterior chamber dynamics in viscoextraction technique using ocular viscosurgical devices

S. Nardeosingh, G. Williams *UK*

Toxic anterior segment syndrome

Y. Neo, V. Cvintal, B. Shingleton *UK*

Long-term efficacy and safety of primary flexible open-loop anterior chamber lens implantation in non-vitrectomised eyes with pseudoexfoliation and weak zonules

R. Nitiahpapand, C. Gizzi, A. Sharma *UK*

Aqueous release ('burping the wound') for intraocular pressure spikes post-cataract surgery

V. Osuna, M. Srur Colombo, B. Garcia-Valcarcel Gonzalez, H. Donoso Torres, L. Ibares Frias *SPAIN*

Non-arteritic ischemic optic neuropathy after early postoperative capsular block syndrome in nanophthalmos cataract surgery

I. Petric Vickovic, V. Lacmanović Lončar, P. Vincekovic, Z. Vatavuk, S. Vukelić, M. Radmilovic, B. Mihaljevic *CROATIA*

Incidence of pseudophakic cystoid macular edema in patients with pseudoexfoliation syndrome

E-POSTERS

M. Puzo, N. Güerri Monclus, F. Bartol-Puyal, J. Sanchez, C. Isanta, P. Calvo, C. Porcar *SPAIN*
Refractive surprise after combined surgery (phacoemulsification-XEN)

R. Rao, C. Kalamkar, A. Mukherjee, B. Patel *INDIA*
Novel technique of scleral tunnel demarcation in manual small incision cataract surgery using trypan blue dye

O. Said, A. Abdel-Magid, M. Abd El-Hafez, S. Saad *EGYPT*
Two years' follow-up after iris-claw intraocular lens implantation for correction of aphakia

T. Sarenac Vulovic, D. Todorovic, N. Petrovic, S. Sreckovic, M. Janicijevic Petrovic, S. Jovanovic *SERBIA*
Cataract surgery in patients with XFS

S. Sebastiani, A. Mercanti *ITALY*
The management of small pupils in complex cases of cataract surgery

J. Sengupta, A. Khetan, J. Mitra, R. Suryawanshi *INDIA*
A comparative study of safety of different settings during phacoemulsification

M. Siddig *SUDAN*
Intravitreal anti-VEGF injections and PCR during cataract surgery

B. Stamenkovic, A. Bajic, V. Jaksic, B. Vukadinovic, Z. Zikic, U. Tomasevic, G. Damjanovic *SERBIA*
Methods for solving aphakia

T. Takahashi, H. Matushima, M. Nagata, T. Senoo *JAPAN*
A case recovered from negative dysphotopsia by reverse optic capture procedure

M. Tsatsos, D. Peironidis, A. Lioura, D. Kehagia, G. Balanikas, N. Ziakas *GREECE*
IFIS in female patients: is that an oxymoron?

L. Yao *CHINA*
Clinical research of posterior capsule rupture in phacoemulsification by trainee surgeons

G. Zhao *CHINA*
Effect of incision on visual outcomes after implantation of a trifocal diffractive IOL

Cataract Surgery Equipment/Instrumentation/Surgical Devices/OVDs

G. Abbinante, M. De Bernardo, A. Coppola, G. Salerno, A. Giugliano, N. Rosa *ITALY*
Corneal power and axial length changes after cataract surgery

T. Akahoshi *JAPAN*
Double-edged prechopper

P. Arriola-Villalobos, B. Burgos-Blasco, M. Ariño-Gutierrez, D. Carmona-Gonzalez, D. Díaz-Valle *SPAIN*
Biometry data and prevalence of corneal astigmatism in Caucasian Spanish candidates for cataract surgery

G. Benejam Torrent, I. Méndez Marin, M. Salvat Serra, P. Romero-Aroca *SPAIN*
Protocol revision of mydriasis for cataract surgery: cycloplegics and phenylephrine eye drops vs Fydrane®

D. Boccuzzi, V. Orfeo, C. Gagliotta *ITALY*
A comparison of the efficiency of three different phacoemulsification fluidic systems for cataract removal

A. Borkenstein, E. Borkenstein *AUSTRIA*
Evaluation of a novel blue-colored ophthalmic viscoelastic device applied during phacoemulsification in eyes with pseudoexfoliation syndrome

A. Borkenstein, E. Borkenstein *AUSTRIA*
Evaluation of different IOL injector systems

S. Brar, S. Ganesh *INDIA*
Six months' clinical outcomes with a new hydrophobic posterior chamber capsular fixation intraocular lens

C. Cagini, A. Iannone, L. Amato, A. Mezzasoma, E. Falcinelli, T. Fierro, P. Gresele *ITALY*
Inhibition of platelet function after ocular administration of non-steroidal anti-inflammatory drugs

D. Carvalho Junior *BRAZIL*
3D digitally-assisted cataract surgery

A. de la Hoz Polo, P. Vázquez Colomo, A. Boto de los Bueis, A. del Hierro Zarzuelo, J. Dabad Moreno, I. Villalaín Rodes, J. Zapata Negreiros *SPAIN*
Influence of precision pulse capsulotomy for cataract surgery upon endothelial cell count

J. Febbraro, S. Bhattacharjee, D. Gatinel, L. Salomon *FRANCE*
Clinical evaluation of a 5/0-nylon hexagonal expansion ring

B. Garcia, A. Miquel López, M. Alarcón Tomás, P. Suárez Bento, E. Gijón Vega, R. Martínez Díaz, J. Bermúdez Pío-Rendón *SPAIN*
Intraoperative aberrometry vs optical biometry for intraocular lens calculation in cataract surgery

S. Han, M. An, K. Lee *SOUTH KOREA*
Comparison of continuous curvilinear capsulorhexis parameters between precision pulse capsulotomy and femtosecond laser capsulotomy

Y. Huang *CHINA*
Effects of decentration and tilt at different orientations on the optical performance of a rotationally asymmetric multifocal intraocular lens

A. Jain, G. Gupta, C. Malhotra, M. Bansal *INDIA*
Refractive outcome of intraoperative aberrometry in predicting intraocular lens power in long eyes and comparing it with optical biometry

R. Khoramnia, W. Jan, H. Fang, S. Schickhardt, I. Baur, G. Auffarth *GERMANY*
In vivo evaluation of the incision size of Clareon injector AutonoMe Preloaded and Vivinex with the iSERT injector

M. Lawless, C. Hodge *AUSTRALIA*
Clinical assessment of a new central topography method to assist premium intraocular lens selection

S. Mahajan, R. Om Parkash, T. Om Parkash, A. Khanna *INDIA*

Pilot study of aspheric, hydrophobic, acrylic intraocular lens (IOL) design with unique optic fenestrations

P. Mattei, L. Toto, L. Vecchiarino, A. Merla, G. Di Marzio, L. Mastropasqua *USA*

In vitro thermal modifications induced by phacoemulsification, torsional phacoemulsification and photofragmentation: comparison of dynamic thermal signature, heat distribution and current patterns

Y. Nakano, H. Suzuki, T. Shiwa, H. Takahashi *JAPAN*

Evaluation of lens capsule-manipulating devices by slit side view

S. Nebro, S. Lozano, L. Salcedo *SPAIN*

Ocular goniometer

H. Oh, S. Kim, Y. Chung *SOUTH KOREA*

Comparison of ocular biometry and prediction of postoperative refractive outcomes using IOLMaster and A-scan in severe cataract

E. Papakonstantinou, S. Kandarakis, K. Andreanos, A. Diagourtas, I. Georgalas, D. Papaconstantinou *GREECE*

Choroidal and vascularity flow density changes using swept-source OCT angiography in patients prior to and after uncomplicated phacoemulsification and intraocular lens placement

R. Patel, S. Virdee, R. Nitiahpapand, C. Gizzi, S. Balal, A. Sharma *UK*

Clinical evaluation of the true volume of intracameral cefuroxime injected in cataract surgery

A. Perez-Arteaga *MEXICO*

The mini-nucleus technique for biaxial phacoemulsification

M. Petrova *BULGARIA*

Comparison of pupil expanders: Morcher, Malyugin Ring, I-Ring, Oasis, APX and iris hooks during phacoemulsification in patients with small pupils

R. Prasad *INDIA*

'Terminator', the wedge tool: a modified classical simple machine to crack and break the hard cataract

M. Puech, N. Abraham, K. Hawa *FRANCE*

Comparison of IOL calculation after myopic corneal refractive surgery by K-ID Method and Haigis suite calculation based on IOL-Master 700

H. Rashid *BANGLADESH*

Comparative analysis of axial length and anterior chamber depth measurement between applanation, immersion and swept-source optical biometry

I. Reekie, A. Ng, B. Ilango *UK*

Iris-claw vs scleral sutured IOLs and endothelial decompensation rates

H. Sabur, I. Isikligil Gokce *TURKEY*

Comparison of torsional phacoemulsification performed with balanced tip (Intrepid®) and Ozil® 12-degree bent tip

S. Sarkar, N. Bardoloi, A. Pilania, H. Das *INDIA*

Prednisolone acetate eye drop vs nepafenac eye drop in postoperative management of microincisional cataract surgery

G. Sauder, S. Moedl, M. Braun *GERMANY*

Comparison of intraoperative and short-term results: phacoemulsification and photofragmentation

G. Sauder, M. Braun, S. Moedl *GERMANY*

Evolution and current limits in nanolaser photofragmentation cataract surgery

J. Sengupta, A. Khetan, J. Mitra, R. Suryawanshi *INDIA*

Comparison of intraoperative settings in phacoemulsification using Centurion Vision System

N. Shorstein, S. Gardner *USA*

Injection volume and intracameral moxifloxacin dose

R. Simons, L. Rondas, F. van den Biggelaar, R. de Crom, T. Berendschot, R. Nuijts *THE NETHERLANDS*

Optimisation of cataract surgery with Mydrane in a real-life setting and economic impact

V. Stebnev, S. Stebnev, I. Malov, N. Skladchikova *RUSSIA*

3D digital imaging systems in cataract surgery: technological features, results, prospects

T. Teshigawara, A. Meguro, N. Mizuki *JAPAN*

Comparison of the influence of pupil dilation on predicted postoperative refraction and recommended IOL power to obtain target postoperative refraction among three IOL power calculation formulas: Barrett Universal II, Haigis, and SRK/T

Y. Wang *CHINA*

Distribution characteristics of eye biological parameters in 140,000 middle-aged and elderly cataract patients in China: a multicentre study based on IOLMaster

Cataract Surgery Paediatric

S. Abbagani, V. Pai *INDIA*

Refractive outcome of intraocular lens implantation in children with cataract below five years of age

M. Ajmal Chaudhary *PAKISTAN*

Management of ectopia lentis in paediatric patients: my experience

Z. Arnaudovski, B. Kostovska *MACEDONIA*

Congenital cataracts: surgical treatment

B. Benito, L. Morales-Fernández, J. Martínez-de-la-Casa, J. García-Feijoo *SPAIN*

Cataract extraction in patients with primary congenital glaucoma

C. Dhull, S. Khokhar, J. Balakrishnan, Y. Gupta *INDIA*

Outcomes of cataract surgery in paediatric uveitis

K. Eibenberger, E. Stifter, F. Pusch,

U. Schmidt-Erfurth *AUSTRIA*

Retrospective evaluation of simultaneous bilateral paediatric and juvenile cataract surgery: 15 years' experience

V. Figueiredo Silva, P. Yoneda,

A. Lottelli Rodrigues *BRAZIL*

Traumatic rupture of polar posterior paediatric cataract

E-POSTERS

S. Giugno, V. Occhipinti, V. Petitto, G. Bona *ITALY*

Managing progressive myopia in children by orthokeratology

I. Hajji, S. Belghmaidi, S. Ajdakar, N. Albab, N. Inzale, A. Moutaouakil *MOROCCO*

Paediatric post-traumatic cataract prognosis: prediction using the paediatric ocular trauma score

N. Ondrova, J. Cendelin, J. Sach, G. Mahelkova *CZECH REPUBLIC*

Histological findings in congenital cataracts with persistent fetal vasculature

E. Ramadan *SAUDI ARABIA*

Novel approach to managing persistent fetal vasculature

A. Sari, O. Dursun, M. Vatansever, E. Dinc *TURKEY*

Long-term results of bilateral congenital cataract patients with primary intraocular lens implantation

N. Yadav, S. Khokhar, T. Agarwal *INDIA*

Evaluation of the outcome of anterior chamber intraocular lens implantation (Kelman Multiflex) in cases of non-traumatic subluxated lenses in paediatric age group

Cataract Surgery Practice Styles

M. Alshehri, M. Diab *SAUDI ARABIA*

Prospective study: management of presbyopia with pseudophakic minimal monovision

M. Bang, R. Bang, B. Shrinivasan, R. Gandhi *INDIA*

Comparison of 2.2 mm vs 2.8 mm clear corneal phaco incisions in terms of phaco energy in different grades of nuclear sclerosis and their impact on corneal clarity in the early postoperative period

S. Belghmaidi, A. Khaled, H. Ibtissam, M. Abdeljalil *MOROCCO*

Impact of the manual small incision cornea surgery technique on the evolution of astigmatism

N. Bhuta, R. Shetty, V. Lalgudi Ganesan, P. Paritekar, N. Balakrishnan *INDIA*

Pain catastrophising score (PCS): a predictor of intraoperative patient behaviour and outcomes of cataract surgery

A. Biala, J. Reddy *INDIA*

Astigmatism in patients presenting to cataract clinic at a tertiary care centre

N. Dash, D. Choudhury *INDIA*

Is manual small-incision cataract surgery (MSICS) a better option than phacoemulsification for managing pseudoexfoliation cataracts in a developing nation?

L. Fedorov, T. Shapovalova, Y. Neniuk *UKRAINE*

Prevalence of corneal astigmatism among Ukrainian people who require surgical treatment of cataract

E. Hopping, B. LaHood, A. Esterman, M. Goggin *NEW ZEALAND*

Assessing the safety of teaching microincision cataract surgery with a 1.8 mm incision

G. Israfilova, M. Bikbov, R. Zainullin *RUSSIA*

Prevalence and interrelated factors of cataract development in the Russian population

M. Kim, M. Jang, K. Shin *SOUTH KOREA*

Change in eye dominance after unilateral cataract surgery

M. Koaik, C. Mehanna, B. Noureddine, J. Bleik, S. Awwad *CANADA*

Adjusting the Scheimpflug total corneal power in intraocular lens power calculation in eyes that have undergone keratorefractive surgery

B. Manzouri, A. De Lassus, M. Ozturk, C. Claoue *UK*

Immediate sequential bilateral cataract surgery: experience from a secondary care centre in the UK

B. Milojkovic, D. Djurovic Raonic *MONTENEGRO*

Our experience in prognosis of cataract surgery in patient with age-related macular degeneration and diabetic maculopathy

F. Mostofian, P. Vezina-Martel, M. Koaik, P. Morales, K. Baig *CANADA*

Comparison of Panacea intraocular lens (IOL) power calculator with six other methodologies

A. Samir, A. AlQarni, A. Nour *SAUDI ARABIA*

Implantation of hydrophobic IOLs under BSS infusion during phacoemulsification

M. Uddaraju *INDIA*

Carbon footprint of cataract surgery: are we missing a wake-up call?

J. Venter, S. Hannan, K. Hettinger, M. Pelouskova *SOUTH AFRICA*

Comparison of immediate vs delayed sequential cataract surgery in patients with multifocal IOLs

Z. Xu, L. Wang, Q. Wu, W. Li, L. Wang *CHINA*

Nationwide investigation into knowledge, attitude, and practice (KAP) regarding visual quality among Chinese ophthalmologists: an app-based cross-sectional study

Cataract Surgery Special Cases

M. Abdellah, E. Mostafa *EGYPT*

Association of vitamin D deficiency and age-related cataracts: a case control study

M. Alsubaie, M. Aljindan, F. Khorshed, A. Nagshbandi *SAUDI ARABIA*

Single-pass four-throw pupilloplasty for iris atrophy in cataractus herpes zoster ophthalmicus (HZO) patient

M. Amber *EGYPT*

Half trench chop technique for hard cataract

F. Badala, E. Bona *ITALY*

A new add-on intraocular lens for pseudophakic patients with macular disease

N. Bahgat, D. Aziz, N. Hassan, M. Mohamed *EGYPT*

Evaluation of Barrett Universal II formula for intraocular lens power calculation in high myopic patients using optical biometry

P. Bulir CZECH REPUBLIC

Two fibre-cross techniques for supporting lens with insufficient zonula during phacoemulsification

S. Chaudhary, R. Chaudhary, S. Jindal INDIA

Posterior polar cataract (PPC) management with new innovations

M. Cigales, J. Hoyos-Chacon, J. Hoyos Campillo SPAIN

Cataract surgery after radial keratotomy with 16 incisions

M. Cigales, J. Hoyos-Chacon, J. Hoyos Campillo SPAIN

Multifocal IOL to correct accommodative esotropia in a 40-year-old patient

A. Coppola, M. De Bernardo, G. Salerno, G. Cembalo, P. Cornetta, M. Gioia, N. Rosa ITALY

Choroidal evaluation in patients under alpha-lytic therapy

M. de Guia, M. Agdeppa PHILIPPINES

Extracapsular cataract extraction in chronic severe ocular Stevens-Johnson syndrome: a case report

C. Dhull, S. Khokhar, Y. Gupta, S. Gaur INDIA

Intraoperative wavefront aberrometry in post-radial-keratotomy cataract patients.

M. Ghali GERMANY

Role of PTK in tuning the refractive outcome of cataract surgery in patients with map-dot-fingerprint epithelial dystrophy of the cornea (MDF)

O. Guergue Diaz De Cerio,**S. Lopez-Plandolit Antolin** SPAIN

True exfoliation syndrome (TEX) case in a housewife

K. Habon, G. Scharioth GERMANY

Scharioth macula lens: proper interlenticular space provides long-term safety in polypseudophakia

J. Hovanesian, E. Donnenfeld, A. Epitropoulos, J. Holladay USA

The effect of lifitegrast on refractive accuracy and symptoms in dry eye patients undergoing cataract surgery

J. Hoyos-Chacon, M. Cigales, J. Hoyos Campillo SPAIN

Extended macular IOL for cataracts in AMD patients

I. Jeddou, Y. Mouzari, F. El Asri, K. Reda, A. Oubaaz MOROCCO

Cataract surgery in myopic eyes: can the replacement lens be plano (0 diopter)?

J. Jinagal, U. Singh, K. Jagat INDIA

Outcomes of phacoemulsification and intraocular lens implantation in radiation-induced cataracts of treated retinoblastoma patients

J. Jinagal, G. Gupta, J. Ram, M. Akella INDIA

Outcomes of phacoemulsification in irido-fundal coloboma eyes with cataract

A. Kanellopoulos, F. Xhani GREECE

Novel intraocular lens power calculation (IOLpc) in keratoconus (KC) using a topography-guided ablation simulation (tgAS)

B. Kusa, M. Piovela ITALY

Trifocal IOL implantation in cataract patients that have experienced previous laser vision correction: three years' follow-up

M. Lefebvre, F. Le Guyader, M. Robert-Bouchet, C. Le Pape, F. Mouriaux FRANCE

Acquired rainbow-like intraocular lens

A. Liaska, T. Pallantzas, E. Makri, S. Stamelou, K. Andrianopoulou, D. Mitsiou GREECE

Cataract patients and pterygium: predictability of intraocular lens power calculation

A. Lula, R. Bulaj ALBANIA

Case report: effectiveness of intensive perioperative corticosteroid therapy in severe ulcerative colitis-associated uveitis undergoing cataract surgery

A. Meshksar, M. Masoumpour, M. Nowroozzadeh, M. Razeghinejad IRAN

Management of spherophakia-associated glaucoma with lensectomy, anterior vitrectomy, and iris-claw lens implantation

D. Miroshnik, D. Zubkova, P. Bezditko, O. Zavoloka, Y. Ilyina UKRAINE

Features of cataract surgery among patients with previous keratotomy

H. Mölder, N. Latina ESTONIA

Progressive axial-length-shortening detected after cataract surgery in a patient with juvenile cataract and CRYBA4 gene mutation

T. Morais Sarmiento, R. Figueiredo, J. Garrido, A. Rebelo, O. Berens, A. Candeias PORTUGAL

Don't let me down: intraocular lens calculation formulae effectiveness for short eyes in day-to-day practice

T. Morais Sarmiento, R. Figueiredo, J. Garrido, A. Rebelo, O. Berens, A. Candeias PORTUGAL

Don't let me down: intraocular lens calculation formulae effectiveness in long eyes in day-to-day practice

H. Mori, H. Matsushima, M. Nagata, T. Senoo JAPAN

How to capture phacoemulsification with advanced corneal opacification

M. Naveiras, L. Fernandez-Vega-Cueto, C. Lisa, D. Madrid-Costa, J. Alfonso SPAIN

Descemet's membrane endothelial keratoplasty (DMEK) and lensectomy with diffractive intraocular lenses (IOL)

A. Pidro, M. Ratković, A. Pidro BOSNIA AND HERZEGOVINA

Maculopathy, fundus changes and anterior lenticonus in Alport's syndrome: case report

A. Ridoy, N. Rahman, M. Chowdhury, M. Chowdhury BANGLADESH

IOL scaffold in phacoemulsification to prevent posterior capsule tear

O. Rozanova, E. Tsyrenzhapova RUSSIA

The actual optic corneal zone in patients with cataract and a history of radial keratotomy

A. Said, A. Elhofy, H. Helaly EGYPT

Comparison between refractive outcome of primary piggyback intraocular lens vs secondary iris-claw lens in posterior microphthalmos

M. Seredyka-Burduk, M. Pol, G. Malukiewicz, B. Kaluzny POLAND

Cataract surgery in patients with wet form of age-related macular degeneration treated with aflibercept

E-POSTERS

S. Sheen-Ophir, S. Beheregaray, B. LaHood, V. Andersons, M. Goggin *AUSTRALIA*

Prevalence of corneal astigmatism in post-excimer laser keratorefractive surgery patients

P. Singh, M. Bajaj *INDIA*

Cataract surgery in cases of proptosis

B. Thalanki Shankarnarayan *UK*

Milky white IOLs

E. Tihelkova, D. Barakova, P. Stodulka *CZECH REPUBLIC*

44-year asymptomatic intralenticular foreign body

T. Torrent-Solans, L. Almudi Cortés *SPAIN*

IOL calculation error in angle-closure glaucoma?

N. Tsiklis, L. Razis *GREECE*

Piggyback intraocular lens for extreme hyperopia after clear lens extraction

J. Urkude, R. Singh, J. Titiyal, N. Sharma *INDIA*

Kissing MVR technique: a novel approach for safe and effective endocapsular lens aspiration in microspherophakia

T. Yeo *SINGAPORE*

A new post-myopic refractive surgery formula based on swept-source optical coherence tomography

Combined Cataract Surgery Techniques

S. Anisimova, S. Anisimov, L. Arutyunyan *RUSSIA*

Clinical results of femto-assisted phacoemulsification combined with non-penetrating deep sclerectomy with collagen antiglaucomatous drainage xenoplast in patients with coexisting cataract and glaucoma

J. Belda, K. Schargel, M. Teus, C. Lavin, M. Soler, M. Appierto *SPAIN*

Budget impact analysis of the iStent inject® implant for open-angle glaucoma treatment in Spain

S. Canabrava, A. Canedo Domingos Ferreira, A. Rezende dos Santos, G. Ribeiro, N. Namem Halabi, R. Medeiros *BRAZIL*

Four-flanged intrascleral IOL-fixation technique: no flaps, no suture, no glue

G. Chen *CHINA*

Sandwich-chop technique for disassembly of hard nucleus

H. Chung, J. Kim, K. Eah, M. Kim, C. Lee, H. Tchah *SOUTH KOREA*

Sulcus-fixation of standard capsular tension ring in cataract surgery to stabilise lens capsule

A. Danilov, A. Grinev, M. Sviridova *RUSSIA*

The choice of surgical treatment in patients with cataract and asteroid hyalosis

J. Davo-Cabrera, J. Piá-Paredes, S. Montolío-Marzo, E. Alfonso-Muñoz, M. Roig-Revert, C. Peris-Martínez *SPAIN*

Artificial iris subluxation due to memory effect after inverted implant loading

G. Dushina, V. Kumar, M. Frolov, A. Bezzabotnov, A. Shradqa *RUSSIA*

Combined ab externo Schlemm's canal surgery in management of open-angle glaucoma in cataract patients

P. Harasymowycz *CANADA*

Real-world experience with iStent inject® second generation trabecular micro-bypass combined with phacoemulsification: a Canadian study reporting one-year outcomes

A. Ozcan, E. Ciloglu, F. Unal *TURKEY*

Efficacy of XEN gel implant in combined XEN-phacoemulsification surgery in primary open-angle glaucoma patients

O. Parkhomenko, G. Parkhomenko, O. Parkhomenko, A. Kovalenko *UKRAINE*

Safety and efficacy of combined transscleral micropulse diode laser cyclocoagulation with phacoemulsification and intraocular lens implantation

M. Pavel, A. Nagar, M. Nagar *UK*

Reduction in intraocular pressure and glaucoma drops after phaco plus in phakic eyes: one-year results

S. Pini *ITALY*

SIa calculation by surgeon in training

C. Putri, F. Quhill *UK*

A case series of combined intravitreal dexamethasone implant (Ozurdex®) and cataract surgery in adult patients with chronic uveitis

A. Salimi, M. Abu-Nada, P. Harasymowycz *CANADA*

One-year outcomes of trabecular micro-bypass stents with concomitant cataract surgery in primary angle-closure glaucoma

Y. Shkandina, N. Khodjaev, N. Sobolev, A. Yarovoy *RUSSIA*

Artificial iris implantation in patients after block excision of the iridociliary zone

B. Solmaz, I. Basgil Pasaoglu, B. Tulu, C. Altan, B. Basarir, T. Yasar *TURKEY*

Results of combined MIGS with XEN implants and phacoemulsification surgery

B. Trindade, F. Trindade, C. Trindade *BRAZIL*

Intraocular pinhole implantation and DMEK in failed irregular penetrating keratoplasty

A. Vasilyev, A. Egorova, L. Bai *RUSSIA*

The analysis of effectiveness and safety of aspiration of regenerative posterior capsule opacification in pseudophakic eyes in patients with high-degree myopia

A. Zahran *EGYPT*

Phaco and toric sutures in keratoconus with cataract

Cornea: Medical

B. Akova, S. Kivanç *TURKEY*

Management of penetrating keratoplasty in a case after sympathetic ophthalmia

A. Albuainain, G. Albinani *BAHRAIN*

Multi-resistant Enterococci and Morganella morganii: a rare cause of complicated keratitis

S. Alenezi, S. Alrefaie, H. Osorio *SAUDI ARABIA*

Brown-McLean syndrome in a patient with homocystinuria: first reported case in the Middle East

S. Ali Ahmad, H. Naveed, M. Dimitry *UK*

Patient perceptions of dry eye symptoms and treatment

Y. Altay *TURKEY*

Treatment of microsporidia keratoconjunctivitis with topical voriconazole in immunocompetent patients

M. Alves, H. Rodrigues, N. Valenti, A. Martins,**D. Chianello** *BRAZIL*

Iridocorneal endothelial syndrome: case report of Chandler's syndrome variant

G. Amri, N. Benchekroun, M. Belmekki *MOROCCO*

Risk factors of advanced keratoconus in paediatric patients

A. Ansari, A. Thomas, G. Williams *UK*

Tolerability, acceptance, and effectiveness of the MeiboPatch among patients with Meibomian gland-related dry eye syndrome

D. Aragón Roca, S. Martín, C. García-Arumí,**S. Banderas, V. Lázaro** *SPAIN*

Interferon alfa-2b treatment in a conjunctival intraepithelial neoplasia affecting long limbal extension: a case report

Y. Aydin Akova, O. Donmez *TURKEY*

Acanthamoeba and fungal keratitis in a man with a history of therapeutic contact lens wear

S. Bagaglia, S. Zuccarini, A. Crisà, M. Ferrise,**C. Mazzotta** *ITALY*

Autologous serum for the treatment of grade 2 and 3 neurotrophic keratitis: one-year follow-up

S. Balal, R. Shah, J. Devabattula, A. Sharma *UK*

Finger-prick autologous blood (FAB) to treat corneal neuropathy secondary to herpes zoster ophthalmicus (HZO)

S. Banderas Garcia, A. Andrade, S. Martín,**D. Aragón Roca, R. Martín** *SPAIN*

Mooren's ulcer: a four-year follow-up case

S. Belgadi, S. Belghmaidi, I. Hajji,**A. Moutaouakil** *MOROCCO*

Childhood corneal blindness: how to challenge amblyopia in the absence of available grafts

J. Betkova, P. Skalicka, M. Meliska, T. Stopka,**P. Liskova** *CZECH REPUBLIC*

Paraproteinemic keratopathy associated with lymphoproliferative disease: a case report

L. Bisbe Lopez, S. Martin Nalda, J. Puig, J. Oliveres,**M. Berges, X. Garrell** *SPAIN*

Corneal intraepithelial neoplasia: is it truly isolated?

W. Chaidaroon, N. Satyawut *THAILAND*

Effects of high-concentration sodium hyaluronate on healing rate of corneal epithelial defect after pterygium surgery

E. Chatzispasou, D. Karadimou, G. Kalogeropoulou,**E. Gkoumas, A. Kouroupaki** *GREECE*

A case report of bilateral exposure keratitis with lamellar ichthyosis: clinical association

C. Chen *TAIWAN*

Bilateral bacterial keratitis in a critically ill and intubated patient in an intensive care unit: case report

G. Chernakova *RUSSIA*

Two faces of herpetic keratitis today: clinical and laboratory

A. Cingu, R. Karadag, K. Hammersmith, P. Nagra,**C. Rapuano** *TURKEY*

Split Descemet's membrane diagnosed by anterior segment OCT

G. Coco, D. Borroni, N. Menassa, K. Iselin, S. Kaye,**V. Romano** *UK*

Biopsy in mucous membrane pemphigoid patients: which location should you sample?

C. Colliga, A. Baeza Autillo, N. Saenz Madrazo *SPAIN*

Acanthamoeba stromal keratitis: how early diagnosis and systemic treatment with voriconazole increases final visual prognosis

C. Cuadros Sánchez, B. De Luis Eguileor,**J. Etxebarria Ecenarro, R. Feijoo Lera, C. Sacristan Egüen,****A. Santamaria Carro** *SPAIN*

The use of scleral contact lenses as a therapeutic option for corneal and ocular surface pathologies

S. Daryabari, H. Aghamollaei, K. Jadidi *IRAN*

The efficacy of topical interferon alfa-2b treatment in recurrent pterygium

A. Daxer *AUSTRIA*

A new model for detecting and grading keratoconus

A. Daxer *AUSTRIA*

Refraction in keratoconus: subjective refraction vs automated refraction

C. Degirmenci, M. Palamar *TURKEY*

Evaluation and grading of Kayser-Fleischer ring in Wilson disease by Scheimpflug camera

D. Dzhaber, E. Akpek *USA*

Long-term outcomes of topical cyclosporine 0.05% treatment in patients with dry eye

M. Elalfy, N. Dhillon, K. Elsayah, S. Hamada, D. Lake *UK*

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A. Taguri, S. Amira, R. Al Nuaimi, F. Al Derei, B. Al Ali *UAE*

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Keratoconus regression without treatment: case series

R. Canones, S. Rodrigo-Rey, J. Paz, J. Abad, P. Drake, I. Rodriguez-Perez, G. Bolivar *SPAIN*

Inter-day corneal thickness variation in healthy corneas measured with Pentacam: comparison with an ultrasound pachymetry

A. El Sebaey Sarhan, A. Elsebaey Sarhan, A. Ibrahim, R. Moustafa *EGYPT*

Comparison between axial and tangential corneal topography maps in localisation of cone in keratoconus using Pentacam

C. Isanta Otal, G. Giménez, F. Bartol-Puyal, I. Altemir, J. Larrosa, V. Polo, L. Pablo *SPAIN*

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M. Jankov, T. Seiler, T. Koller, H. Studer, T. Seiler *SERBIA*

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V. Kenia, R. Kenia, O. Pirdankar *INDIA*

Corneal biomechanical metrics in keratoconus and age-matched normal eyes

S. Koh, R. Inoue, R. Ambrósio Jr, N. Maeda, K. Nishida *JAPAN*

Correlation between corneal biomechanical indices and severity of keratoconus

S. Maeno, S. Koh, R. Inoue, R. Ambrósio Jr, N. Maeda, K. Nishida *JAPAN*

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C. Plaza-Laguardia, J. Sanchez-Cañizal, A. Mateos-Hernandez, L. Monje-Fernandez, I. Garzo-Garcia, L. Santana-Garcia, M. Franco-Benito *SPAIN*

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S. Rodrigo Rey, R. Cañones-Zafra, S. Ketabi-Shadvar, P. Drake-Rodriguez, I. Rodriguez, E. Arranz-Marquez, E. Fraga *SPAIN*

Intraday and interday corneal thickness variation in healthy eyes measured by Pentacam®

K. Ruiz-Montenegro Villa, L. Izquierdo Jr., J. Camargo, R. Zuñiga, M. Camino, C. Maldonado, M. Henriquez *PERU*

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D. Ulusoy, Z. Duru *TURKEY*

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Spontaneous disappearance of cornea verticillata of unknown etiology

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Investigation of correlation between corneal densitometry on the central 6 mm zone and age of normal healthy individuals

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M. Abd El-Radi, Z. Eldaly, R. Abdelrahman, K. Soliman, M. Sayed *EGYPT*

Correlation between keratoconus progression and demarcation line depth in epithelium-off and trans-epithelium corneal cross-linking

F. Akkan Aydogmus, E. Karaca, D. Ozek, G. Celik, O. Evren Kemer *TURKEY*

Visual and topographical outcomes following accelerated corneal cross-linking in progressive keratoconus

S. Al Bayati *UAE*

Partial surface ablation laser guided by corneal wavefront combined with accelerated cross-linking in the treatment of keratoconus

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Sectorial phototherapeutic keratectomy and corneal collagen cross-linking for keratoconus treatment

R. Al Saidi, M. Abdo, A. Bandara, S. Alharthi, J. Babu *OMAN*

Outcome of customised corneal collagen cross-linking for keratoconus patients in Oman: 3-12 months' results

E. Albe, P. Vinciguerra *ITALY*

Iontophoresis-assisted corneal cross-linking results in progressive keratoconus in an eye that previously underwent external beam radiotherapy and cryotherapies for retinoblastoma

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S. Anisimov, S. Anisimova, N. Anisimova *RUSSIA*

Ring-pattern local corneal cross-linking: in vivo and clinical study of corneal morphological, biomechanical and optical changes

N. Anisimova, S. Anisimov, A. Zemskaya, S. Anisimova *RUSSIA*

Long-term results of ring-pattern local corneal cross-linking for progressive keratoconus treatment

J. Artaechevarria Artieda, I. Morote, N. Alba *SPAIN*

Comparison of clinical and biomechanical changes in different uncommon accelerated cross-linking protocols in keratoconus: 12 months' follow-up

M. Balyan, C. Malhotra, G. Gupta, A. Jurangal, A. Jain *INDIA*

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Application of corneal cross-linking in recurrent keratoconus after keratoplasty

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Iontophoretic corneal collagen cross-linking in patients with pellucid marginal degeneration: one-year results

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Predictive factors for visual outcomes of iontophoretic corneal collagen cross-linking for progressive keratoconus

R. Cessio Vulcano, C. Cessio, M. Fornella, S. Murillo *URUGUAY*

Corneal perforation after transepithelial (Epi-On) accelerated cross-linking

E. Chan, H. Yip, S. Sahebjada *AUSTRALIA*

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Pentacam indices for clinical and subclinical keratoconus

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Resolution of epithelial ingrowth after combined photorefractive keratectomy and corneal cross-linking in a patient with post-LASIK corneal ectasia

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Customised corneal cross-linking for keratoconus treatment: first experience

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Use of the Avedro KXL system in the cross-linking technique

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One-year follow-up of accelerated transepithelial corneal collagen cross-linking for progressive keratoconus with different corneal thickness

B. Kambo, A. Belshi *ALBANIA*

Transepithelial corneal cross-linking in treatment of progressive keratoconus

A. Kirgiz, M. Akdemir, A. Yilmaz, H. Kaldirim, K. Atalay, S. Asik Nacaroglu *TURKEY*

The use of autologous serum eye drops after cross-linking

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Combined topo-guided PRK and CXL with oxygen supplementation for keratoconus: two-year follow-up

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Changes in visual acuity, refraction and pachymetry after cross-linking

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The 'Epi-Pocket': a novel surgical technique for corneal cross-linking

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Tomographic changes after corneal collagen cross-linking for progressive keratoconus: one-year follow-up study

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S. Rachapalle Reddi, P. Padmanabhan, V. Natajan *INDIA*

Long-term results of collagen cross-linking (CXL) for progressive keratoconus in paediatric age group beyond eight years of follow-up

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Corneal collagen cross-linking for the treatment of infectious keratitis

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Short and long-term follow-up after conventional vs accelerated corneal collagen cross-linking: comparative study

A. Sherif, A. Hafez *EGYPT*

Demarcation line depth after contact-lens-assisted modified accelerated corneal collagen cross-linking in markedly thin corneas

R. Shroff, D. Chauhan, D. Mathur *INDIA*

Innovative use of a DSAEK lenticule in cross-linking thin corneas: our experience

A. Silva, R. Pinheiro, J. Gil, A. Rosa, C. Tavares, M. Quadrado, J. Neto-Murta *PORTUGAL*

Simultaneous partial topo-guided photorefractive keratectomy followed by corneal collagen cross-linking for keratoconus

L. Sun, Y. Zhao, X. Zhang, M. Tian, X. Zhou *CHINA*

Topography-guided transepithelial accelerated corneal collagen cross-linking for low refractive error correction in keratoconus treatment: a pilot study

J. Tan, S. Holland, A. Covello, S. Arba Mosquera, V. Shwetabh, J. Hodgen, J. Tan *CANADA*

Two-year outcome of topography-guided photorefractive keratectomy with collagen cross-linking for keratoconus

M. Tian, X. Zhang, W. Jian, Y. Shen, F. Xia, X. Zhou *CHINA*

Four-year outcomes of accelerated transepithelial corneal collagen cross-linking for post-LASIK ectasia

M. Tian, W. Jian, X. Zhang, Y. Shen, X. Zhou *CHINA*

Three-year follow-up of accelerated transepithelial corneal collagen cross-linking for progressive paediatric keratoconus

L. Tutchenko, S. Patel, O. Voytsekhivskyy, M. Skovron, O. Horak *UKRAINE*

The coefficient of rigidity of the human keratoconic, post cross-linked and normal cornea measured by Schiøtz tonometer

F. Tzani, A. Kanellopoulos *GREECE*

Familiar association of keratoconus (KCN) in Greece: tomographic corneal evaluation of KCN patients' families

D. Ulusoy, S. Akkaya, İ. Aydın, A. Çiçek, C. Özsaygılı *TURKEY*

Demarcation line depth and efficacy after accelerated corneal crosslinking for progressive keratoconus: comparison of dextran-based and hydroxypropyl methylcellulose-based riboflavin solutions

E. Usubov, M. Bikbov, E. Usubov, G. Kazakbaeva, I. Rusakova *RUSSIA*

Repeated conventional cross-linking due to insufficient epi-on protocol with progressive keratoconus

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Hormonal effect on progression of corneal ectasia

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Long-term topographic, densitometric and clinical outcomes of accelerated collagen cross-linking for progressive keratoconus

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Longitudinal comparison between clinical outcomes of conventional and accelerated collagen cross-linking for progressive keratoconus

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Biomechanical comparison between healthy, subclinical keratoconus and keratoconus before or after corneal cross-linking (CXL)

J. Zhao, X. Zhou *CHINA*

Epikeratophakia using small-incision lenticule extraction lenticule addition combined with corneal cross-linking for keratoconus: a case study

E-POSTERS

Endophthalmitis/Ocular Infections

M. Eldaly, O. ElSheikha *EGYPT*

Evaluation of the SEAL protocol in the prevention of acute endophthalmitis after cataract surgery

M. McKenna, T. Patel, D. Ting *UK*

Arthrographis kalrae: a rare fungus with an affinity for keratin

T. Om Parkash, R. Om Parkash, S. Mahajan *INDIA*

Evaluation of efficacy of protocols to minimise the incidence of endophthalmitis without the use of intracameral antibiotics

C. Porcar Plana, E. Navarro Hernandez, J. Moya Roca, E. Campos *SPAIN*

Disinfection of tonometer

S. Saha, J. Sengupta, A. Khetan *INDIA*

Importance of polymerase chain reaction system for diagnosis of eye infections

O. Spierer, D. Miller, T. O'Brien *ISRAEL*

Comparative activity of antimicrobials against *Pseudomonas aeruginosa*, *Achromobacter xylosoxidans* and *Stenotrophomonas maltophilia* keratitis isolates

V. Temelkovska, M. Dimitrova, K. Dzumhur, S. Bozkurt, Z. Cipurovski *MACEDONIA*

Bilateral endophthalmitis after bilateral simultaneous cataract surgery: case report

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Combined intrastromal corneal ring segment implantation and corneal collagen cross-linking for treatment of pellucid marginal degeneration

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Photorefractive keratectomy with simultaneous corneal cross-linking for the treatment of keratoconus

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Incidence of posterior vitreous detachment in myopes undergoing femtosecond laser-assisted in-situ keratomileusis using a 200 kHz femtosecond laser system

E. Chlasta-Twardzik, A. Nowińska, E. Wylęgała *POLAND*

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New treatment profile: StreamLight one-step transepithelial PRK

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O. Kostin, S. Rebrikov, A. Ovchinnikov, A. Stepanov *RUSSIA*

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T. Kuznetsova, V. Antonuk, O. Kuranova *RUSSIA*

The state of the premacular bursa in the early postoperative period after excimer laser correction by patients with myopia and myopic astigmatism

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Femtosecond laser-assisted removal of retained Descemet's membrane after penetrating keratoplasty

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J. Shang, T. Han, Z. Ye, X. Zhou *CHINA*

Two-year refractive outcomes of SMILE and FS-LASIK for high myopia, super high myopia and myopic astigmatism of -6.00D to -12.50D

R. Tavares, S. Correa, M. Ghanem, E. Gonçalves, V. Ghanem, R. Hallal, R. Ghanem *BRAZIL*

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Five years' experience with ReLex SMILE in DuoVize Eye Clinic, Prague

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Effect of femto-assisted relaxing incisions for correction of mixed astigmatism on presbyopia

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Study on corneal surface changes induced by intraoperative gaze in SMILE and intervention with different methods

X. Zhou, J. Shang, B. Qin, Y. Zhao, X. Zhou *CHINA*

Long-term observation of posterior corneal elevations after SMILE and FS-LASIK for myopia higher than -10 diopters

Femtolasar-Assisted Cataract Surgery (FLACS)

M. Asif, R. Sinha, J. Titiyal, N. Sharma *INDIA*

Comparison between femtosecond laser-assisted cataract surgery (FLACS) and conventional phacoemulsification in post-vitrectomy eyes

F. Branco, L. Gouvêa, F. Erthal, R. Omoto, E. da Silva, H. Moreira *BRAZIL*

Femtosecond laser in the cataract fellowship

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FLACS can achieve cataract extraction with no ultrasound in 40% of patients: this can protect endothelial cell damage

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Femto-assisted phacoemulsification of complicated cataract with corneal astigmatism correction in a patient with Weill-Marchesani syndrome: clinical case

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Towards the question of the role of trabeculocleaning in surgical treatment of glaucoma with concomitant cataract and pseudoexfoliation syndrome

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Comparison of the astigmatic outcomes of toric IOL implantation using femtosecond laser-assisted capsular marks vs intrastromal corneal marks combined with intraoperative aberrometry

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FLACS with new LenSx PIs: first results

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Efficacy of intracorneal arcuate incisions to correct corneal astigmatism using a new femtosecond laser platform

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My initial experience with femto laser cataract surgery over 12 months in Kolkata, India

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Comparison of the safety and effectiveness of arcuate incisions and toric IOLs for the correction of mild-to-moderate pre-existing corneal astigmatism

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M. Abendroth, M. Pyfer, Q. Zhang *USA*

Outcomes of iStent alone vs iStent plus ab interno canaloplasty performed during cataract surgery

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Prospective evaluation of a Schlemm's canal microstent for treatment of primary angle-closure glaucoma in combination with phacoemulsification

T. Arnljots, M. Economou *SWEDEN*

Kahook Dual Blade goniotomy vs iStent inject® implantation in open-angle glaucoma: preliminary 1-year efficacy and safety comparison

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Long-term results of different glaucoma surgery procedures with implantation of porous collagen implant

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Short-term changes in corneal endothelial cell density following treatment with glaucoma drainage device

H. Beckers, F. Aptel, C. Webers, E. Bluwol, J. Martinez-de-la-Casa, J. Garcia-Feijoó, Y. Lachkar, C. Méndez-Hernández, I. Riss, T. Shaarawy *THE NETHERLANDS*

Two-year results of a multicentre study assessing the MicroShunt in patients with primary open-angle glaucoma: 0.4 mg/ml mitomycin C outcomes

A. Ben Youssef, H. Zgolli, O. Fekih, S. Mabrouk, I. Zghal, L. Nacef *TUNISIA*

Risk factors for neovascular glaucoma after vitrectomy in patients with complicated proliferative diabetic retinopathy

A. Ben Youssef, H. Zgolli, O. Fekih, S. Mabrouk, I. Zghal, L. Nacef *TUNISIA*

Risk factors for silicone oil-induced glaucoma after pars plana vitrectomy for retinal detachment

P. Bezdetko, V. Melnyk, Y. Ilyina, O. Zavoloka, D. Zubkova *UKRAINE*

New combined-technique phacoemulsification with modified tunnel trabeculopuncture in pseudoexfoliative glaucoma

N. Dar, T. Sharon, I. Hecht, Z. Burgansky-Eliash *ISRAEL*

Efficacy and safety of the ab interno gelatin stent in severe pseudoexfoliation glaucoma compared to non-pseudoexfoliation glaucoma at 6 months

A. Dastiridou, M. Samouilidou, P. Riga, E. Anastasopoulos, P. Brazitikos, S. Androudi, N. Ziakas *GREECE*

OCT angiography of the macula in patients with primary open-angle glaucoma and normal tension glaucoma

S. Dorairaj *USA*

Corneal endothelial cell changes after phacoemulsification combined with excisional goniotomy with the Kahook Dual Blade or iStent: a prospective fellow-eye comparison

S. Dorairaj, M. Tam *USA*

Twelve-month outcomes of excisional goniotomy using the Kahook Dual Blade in eyes with angle-closure glaucoma

M. Economou, T. Arnljots *SWEDEN*

Multi-iStent inject® implantation (four stents) in open-angle glaucoma: a glimpse into the future

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Evaluation of optic disc cup surface depression rate in glaucoma patients

M. Gallardo *USA*

Single US surgeon's early experience with iStent inject® trabecular micro-bypass stents implanted in conjunction with cataract surgery

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Two-year results of a prospective, multicentre, randomised comparison of Hydrus vs two iStents in standalone surgery for open-angle glaucoma (COMPARE trial)

K. Gerstmeyer, S. Scholtz, F. Krogmann, G. Auffarth *GERMANY*

The development of first glaucoma-drainage implants

O. Giasin *UK*

Refractive and biometric changes after non-penetrating and aqueous-shunt glaucoma surgery

B. González Ferrer, R. Cordero Ros, C. Lavin Dapena, A. Ramos Castrillo *SPAIN*

Retrospective study of our first 48 cases with two second-generation trabecular micro-bypass stents

M. Hajduga, I. Filipecka, M. Hajduga, K. Połuszny-Rutkowska, Ł. Drzyzga, E. Mrukwa-Kominek *POLAND*

The iStent implantation in combination with SLT as an effective method of lowering intraocular pressure in patients with glaucoma

A. Hamroush, C. Sivapthasuntharam, S. Murthy *UK*
A comparison of endothelial cell loss following minimally-invasive glaucoma surgery: medium-term follow-up

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Ab interno canaloplasty and endoscopic cyclophotocoagulation in different types of advanced glaucomas: a clinical study

S. Jandroković, S. Popović Suić, I. Škegro, S. Masnec *CROATIA*

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T. Jenyon, B. Ilango *UK*

Corneal decompensation secondary to the CyPass microstent

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36-month results of an ab interno canaloplasty (ABiC) case series

S. Kostianeva, M. Konareva-Kostianeva *BULGARIA*

Ocular risk factors for progression of open-angle glaucoma

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V. Kumar, A. Shradqa, M. Frolov, G. Dushina, A. Bezzabotnov *RUSSIA*

Supraciliary metallic implant in glaucoma

Z. Kuryazova, N. Yangieva *UZBEKISTAN*

Our experience of treatment in patients with open-angle glaucoma with a citicoline drug

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One-year results of trabecular micro-bypass stent implantation (iStent® or iStent inject®) in a real-world setting

C. Lavin-Dapena *SPAIN*

XEN 63 gel stent device in glaucoma surgery: a five-year follow-up prospective study

R. Leda, A. Almeida, M. Dias, G. Landim, B. Souza, N. Guimarães, E. Feijó *BRAZIL*

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Y. Leng, M. Lane, S. Dulku *UK*

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J. Liu, N. Sun *CHINA*

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D. Lopes, T. Loureiro, R. Carreira, N. Marques, I. Machado, P. Telles, N. Campos *PORTUGAL*

XEN performance in advanced glaucoma at 12 months

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ABiC to reduce IOP and ocular irritation in patients having undergone previous MIGS procedures

F. March De Ribot, W. Sponsel, S. Groth, H. Ramos, M. Puig *SPAIN*

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K. Nabil Elsayed Ghazal, A. Samir, A. Elsayed, A. Lotfy *SAUDI ARABIA*

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I. Novytskyy, T. Smal, M. Novytskyy, O. Levytska *UKRAINE*

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I. Ouasti, T. Kandoussi, L. Lazreg, O. Oukebdane,**N. Ouslim** *ALGERIA*

Bilateral angle-closure glaucoma revealing nanophthalmos

B. Patel, A. Mukherjee, R. Rao, B. Patel *INDIA*

Outcomes of second Ahmed glaucoma valve implantation in refractory neovascular glaucoma

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Comparison of combined phacotrabeulectomy with trabeculectomy-only in the treatment of primary angle-closure glaucoma

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Trabeculectomy with conjunctival graft: a new technique to increase success rate

A. Samir, A. AlQarni, M. Almalis *SAUDI ARABIA*

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C. Sánchez Sánchez, B. Puerto Hernández,**C. López Caballero, I. Contreras Martín,****M. Lorente Hevia** *SPAIN*

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S. Tanwar, S. Haldipurkar, V. Shetty *INDIA*

Diagnostic efficacy of RNFL and GCC in optical coherence tomography in glaucoma progression

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Cataract surgery after trabeculectomy with antimetabolites in pseudoexfoliation glaucoma

H. Topcu, C. Altan, B. Basarir, I. Pasaoglu, N. Alagoz,**B. Solmaz, T. Yasar** *TURKEY*

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Deep sclerectomy for glaucoma after penetrating keratoplasty: a case report

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CO2 laser-assisted deep sclerectomy surgery (CLASS) in the treatment of open-angle glaucoma in Chinese patients

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Long-term results of non-penetrating deep sclerectomy with Esnoper V-2000 implant in a tertiary centre of ophthalmology in Portugal

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N. Abraham, K. Hawa, M. Puech *FRANCE*

Crystalline lens radius of curvature analysis with swept-source OCT (CASIA 2)

S. Akkaya Turhan, E. Keskiner Ozturk, P. Kahraman Koytak, K. Uluc, H. Alibas, T. Tanrıdag, E. Toker *TURKEY*

Corneal confocal microscopy for assessment of corneal nerve morphology in patients with acquired and hereditary demyelinating polyneuropathy

M. Asif, A. Pujari, N. Sharma, H. Selvan, J. Urkude, R. Mukhija *INDIA*

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Diurnal variation of anterior segment parameters in keratoconus patients and healthy controls

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Herpes simplex virus keratitis assessed by HD anterior segment optical coherence tomography

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F. Faria Correia, M. João, M. Simões, N. Franqueira, T. Monteiro *PORTUGAL*

Fourier analysis for differentiating the ectasia phenotype

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Quantitative UBM (Q-UBM) and anterior segment OCT (AS-OCT) of lens and IOL position and clinically-measured depth-of-focus of the eye

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Vitreous volume enlargement syndrome (VE) and IOL position: new biomechanical model of the eye

P. Gogri, F. Bhombal *INDIA*

A new technique for fitting of tricurve rigid gas-permeable contact lens in penetrating keratoplasty eyes using Scheimpflug imaging

N. Hashmani, S. Hashmani *PAKISTAN*

The influence of tomographic corneal characteristics on the epithelial and stromal thickness profiles

A. Herranz, J. Armentia, P. Martí *SPAIN*

Authentic exfoliation syndrome (AES) or capsular delamination: regarding one case

A. Kanellopoulos, N. Tomaras, E. Young, K. Hatch *GREECE*

Smartphone-attached photokeratoscope screening for irregular corneas

N. Kappos, V. Liarakos, E. Zouzoulas, G. Karastatiras, K. Giannopoulou, E. Kavalarakis, S. Giannikakis *GREECE*

Novel technique for anterior chamber angle imaging via smartphone without using slit lamp

Y. Kusumi, Y. Suzuki, T. Mitsukawa, C. Shigeyasu, N. Matsuki, M. Yamada *JAPAN*

Changes of crystalline lens during accommodation evaluated by anterior segment optical coherence tomography

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Epithelial basement membrane dystrophy diagnosed by optical coherence tomography

D. Maltsev, A. Kulikov, E. Kudryashova, M. Burnasheva *RUSSIA*

Decreased epithelial-to-corneal thickness ratio in healthy fellow eyes of patients with unilateral bullous keratopathy

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N. Nassiri, M. Safarzadeh, Z. Rajavi, K. Sheibani *IRAN*

Anterior segment characteristics in normal and keratoconus eyes evaluated with a combined Scheimpflug/Placido corneal imaging device

H. Ozdemir, M. Sekeroglu *TURKEY*

The effect of cataract surgery on static and dynamic pupillary characteristics

A. Perrotta, P. Busatto *ITALY*

Repeatability and agreement of corneal parameters using two noncontact specular microscopes

N. Pircher, F. Beer, S. Holzer, M. Pircher, C. Hitzengerber, G. Schmidinger, J. Lammer *AUSTRIA*

Large field-of-view corneal epithelium and Bowman's layer thickness maps in keratoconic and healthy eyes

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New era of lens biophysical quantification with high-speed swept-source OCT: a lens biophysics model

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A. Tzamalīs, A. Diafas, V. Chatzistergiou, I. Oustoglou, I. Tsinoopoulos, N. Ziakas *GREECE*

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Straylight measurement in patients with fish-eye disease: a case series

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S. Bagare, S. Ganesh, S. Brar *INDIA*

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F. Camesasca, P. Vinciguerra, R. Vinciguerra *ITALY*

Super vision after myopic advanced surface ablation: a myth?

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SMILE for high myopia between -9.00 and -14.00 D

E. Chansue, S. Srivannaboon *THAILAND*

Night-vision quality comparison between Femto-LASIK and ReLEx SMILE in patients with large scotopic pupils

A. Covello, D. Lin, S. Holland, S. Arba Mosquera, V. Shwetabh, M. Al Obthani, J. Tan *CANADA*

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K. Davtyan, E. Eskina *RUSSIA*

Results of ReLEx SMILE for patients with thin cornea: short-term outcomes

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Refractive outcomes of cataract surgery in high myopia using SRK/T formula

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The role of new ablation algorithm (SmartSurfACE) in clinical and functional outcome of myopic patients with one-step TransPRK approach

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S. Holland, D. Lin, A. Covello, S. Arba Mosquera, V. Shwetabh, J. Hodgen, J. Tan *CANADA*

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A. Ivarsen, A. Gyldenkerne, J. Hjortdal *DENMARK*

Can preoperative autorefractometry reveal the risk of unintended postoperative astigmatism after small incision lenticule extraction for myopia?

N. Kachuriak, N. Polunina, I. Kaplin *UKRAINE*

Dry eye evaluation and corneal surface restoration after LASEK in patients receiving preservative-free lubricant for one and three months

N. Kahum Lopez, A. Navas, C. Castillo-Salgado, E. Graue-Hernandez, A. Jimenez-Corona, A. Ibarra *MEXICO*

Femtosecond laser vs mechanical microkeratome use for laser-assisted in situ keratomileusis (LASIK): systematic review and meta-analysis

D. Kang, I. Jun, D. Reinstein, S. Arba Mosquera, E. Kim, K. Seo, T. Kim *SOUTH KOREA*

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S. Kaya Unsal, F. Helvacioğlu, E. Sunay, O. Kavalcioglu *TURKEY*

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N. Lu, D. Chen, S. Chen, Q. Wang *CHINA*

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N. Maychuk, I. Mushkova, A. Demchinsky *RUSSIA*

Comparative analysis of long-term results in extra-high myopia correction with sub-Bowman's femto-keratomileusis and tissue-saving ablation (SBFK&TSA) and phakic IOL implantation

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Comparison of visual outcomes and safety of trans-epithelial photorefractive keratectomy using the Wavelight EX500 with conventional photorefractive keratectomy

M. Parkar, P. Vaddavalli, J. Reddy, P. Gogri *INDIA*

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A. Uceda-Montanes, M. Rogers, D. Pinero Llorens *IRELAND*

Visual and refractive outcomes with a new topo-integrated wavefront-guided LASIK procedure

F. Xia, Y. Shen, T. Han, X. Zhou *CHINA*

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M. Ayoubi, J. Masood, S. Nowak *UK*

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Analysis of excimer laser treatment outcome and corresponding angle kappa in hyperopic astigmatism

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Comparing visual outcomes between wavefront-guided photorefractive keratectomy and femtosecond laser in situ keratomileusis using a new generation aberrometer for the correction of high astigmatism (≥ 2.0 D)

O. Napylova, L. Ramazanova, R. Shamratov, E. Yazykova *RUSSIA*

Correction of high myopia with astigmatism using topo-guided LASIK: 12-month results

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Analysis of the clinical outcomes of trans-epithelial PRK using Amaris 1050RS excimer laser in extremely high myopia (more than -8 diopter): comparison of trans-PRK with LASEK (surface ablation with alcohol) and EVO-ICL in extremely high myopia

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Topography-guided PRK without cross-linking in keratoconus treatment

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A. Shortt, S. Vaswani *UK*
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O. Abdalrahman, A. Rodríguez, J. Alió *SPAIN*
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A. Kachanov, S. Bauer, V. Kornikov, B. Zimin *RUSSIA*

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A. Kazakova, I. Medvedev, M. Gracheva, D. Pokrovskiy, S. Rychkova *RUSSIA*

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Clinical evaluation of visual, refractive and adverse events outcomes of a new monofocal Clareon IOL: six-month results

M. Nanavaty, C. Holmes, S. Borkum *UK*

Early experience with new TECNIS Eyhance monofocal intraocular lens in eyes with co-existing pathologies

H. Parikh, S. Sengupta *INDIA*

Comparison of postoperative spherical aberrations between intraocular lenses with aspheric design vs spherical design in a real-world setting

S. Patel, L. Tutchenko, O. Voytsekhivskyy, M. Skovron,

O. Horak *UK*

Modulation of the axis of total astigmatism of the cornea resulting from vector analysis of corneal front and back surfaces before and after routine cataract surgery

M. Romero Insua, C. Benedi-Garcia, M. Vinas,

N. Alejandro, I. Jimenez-Alfaro, S. Marcos *SPAIN*

In vivo monochromatic ocular aberrations in Clareon IOL-implanted patients

M. Soda, A. Lucisano, G. Carnovale Scalzo,

V. Scorgia *ITALY*

Evaluation of visual performance of two new intraocular lenses for cataract surgery

G. Sosnowski, J. Szaflik, A. Kamińska, J. Izdebska,

E. Langwińska-Wośko, T. Gałęcki *POLAND*

Comparison of incision size and intraocular lens behavior of two preloaded delivery systems: Clareon AutoNoMe and UltraSert IQ

G. Steinwender, W. Glatz, M. Nitsche-Resch, G. Schließleder, M. Shajari *AUSTRIA*

Impact of corneal spherical aberration on depth of focus after phacoemulsification with implantation of spherical or aspherical intraocular lenses

I. Tarib, J. Brahim Salem, M. Khamaily, S. Dahi, Y. Mouzarii, K. Reda, A. Oubaaz *MOROCCO*

Outcome of cataract surgery in an old sceptical population

M. Teus, G. Bolivar, J. Paz, A. Martinez *SPAIN*

Clinical evaluation of visual, refractive and adverse events outcomes of a new monofocal IOL: six-month results

M. Ullrich, M. Ruiss, J. Hienert, N. Hirnschall, O. Findl *AUSTRIA*

Anterior chamber depth (ACD) variability between the Clareon and AcrySof IOL: a randomised trial

Pseudophakic IOLs: Multifocal

B. Acar, S. Acar *TURKEY*

Visual outcomes and patient satisfaction after bilateral implantation of a new trifocal intraocular lens: AcrivaUD Trinova sinusoidal trifocal IOL

J. Alió, A. Plaza-Puche, P. Yebana, A. Vega-Estrada, J. Alió Del Barrio, F. Lugo *SPAIN*

Visual outcomes and patient satisfaction after implantation of a continuous transitional focus optic presbyopic intraocular lens

J. Ball, C. Thacker *UK*

Comparison of three diffractive intraocular lenses after cataract surgery

G. Bianchi *ARGENTINA*

Spectacle independence after cataract surgery

J. Blanckaert, N. Faizi, E. Mulliez, S. Ghekiere *BELGIUM*

Patient satisfaction after bilateral FLACS and sinusoidal trifocal EDOF multifocal IOL implantation

M. Boháč, A. Barisic, N. Gabric, S. Patel *CROATIA*

Residual refractive error after multifocal intraocular lens implantation: causes and treatment

C. Bosc, J. Bosc, R. Joubert, P. Santiago *FRANCE*

CTF intraocular lens for presbyopia: first French results

E. Casado, D. Casado Rodríguez *SPAIN*

Refractive and visual outcomes of Precizon presbyopic CTF intraocular lens: retrospective analysis

F. Castignoles, E. Philipakki, P. Sourdille *FRANCE*

How to fully use diffractive technology for intraocular correction of presbyopia?

G. Cervantes, O. Asís *MEXICO*

Trifocal piggyback in specific situations

R. Chandregowda Rajalakshmi, S. Ganesh, S. Brar *INDIA*

Clinical outcomes and patient satisfaction with a new diffractive trifocal intraocular lens

J. Chaves, M. Raimundo, J. Simão, A. Rosa, M. Quadrado, J. Neto-Murta *PORTUGAL*

Intraocular lens power calculation accuracy in axial myopia using intraoperative aberrometry and novel formulas

T. Cieslik, E. Cieslik-Majchrzak, M. Majchrzak *POLAND*

Precizon Presbyopic and AT LISA Tri 839MP IOL implants: comparison of results and patient satisfaction

N. Demirkaya, I. van der Meulen, J. van der Linden, R. Lapid-Gortzak *THE NETHERLANDS*

Visual outcomes and patient satisfaction following implantation of the SeeLens Fullrange MF multifocal IOL in two groups of patients: cataract extraction (CAT) vs refractive lens exchange (RLE)

J. Dermott, S. Rehman, C. O'Donnell, A. Hartwig, S. Vaswani, I. Siso-Fuertes *UK*

A comparison of outcomes between bilateral multifocal IOL implantation and multifocal IOL combined with contralateral extended-depth-of-focus IOL implantation

A. Dmitriew, W. Adamski, A. Chomicka *POLAND*

Visual outcomes with PanOptix Toric implantation planned using Verion Vision Planner 3.1

S. Fukuoka, S. Toshiya *JAPAN*

Surgical outcomes of implanting low-add apodised diffractive multifocal intraocular lens ACTIVEFOCUS™

J. Györy *HUNGARY*

Long-term evaluation of contrast sensitivity prior to and after the implantation of the Liberty 677MY trifocal intraocular lens

F. Helvaciglu, E. Sunay, S. Kaya Unsal, O. Kavalcioglu, E. Bulut *TURKEY*

Postoperative visual performance with a bifocal and trifocal diffractive intraocular lens

C. Herbers, I. Kaiser, J. Winters, R. Lucchesi, S. Abdassalam, M. Moftah, F. Kretz *GERMANY*

The evaluation of a small aperture intraocular lens as a mix-and-match combination with an EDOF intraocular lens

M. Holzer, R. Ruiz Mesa, M. Royo Sans, J. Alió, J. Mendicute del Barrio, F. Ribeiro, T. Kim *GERMANY*

Functional outcomes of the new Precizon Presbyopic NVA multifocal intraocular lens

J. Hovanesian, Q. Allen, M. Jones *USA*

Satisfaction and spectacle dependence with mini-monovision with distance-dominant multifocal lenses compared with bilateral, emmetropic classic multifocals in cataract surgery

M. Jaworski, P. Jaworski, D. Wyględowska-Promienska, S. Gierrek-Ciaciura *POLAND*

Spectacle independence and assessment of patient satisfaction after implantation of Oculentis multifocal lenses

I. Kaiser, R. Lucchesi, C. Herbers, J. Winters, S. Abdassalam, M. Moftah, F. Kretz *GERMANY*

Comparison of the functional results after bilateral implantation of an EDOF lens compared to a mix-and-match combination of an EDOF IOL and a trifocal lens

B. Kashyap, B. Kashyap, N. Gajendragadkar, B. Kashyap *INDIA*

Comparative analysis of visual outcomes, defocus curve and patient satisfaction in patients with bilateral implantation of diffractive bifocal (+2.50 D) and diffractive trifocal IOLs

Z. Khatib, S. Haldipurkar, V. Shetty, D. Shah, P. Sankhe, A. Khan, P. Das *INDIA*

Comparison of post-cataract-surgery visual outcomes in patients bilaterally implanted with two conventional diffractive multifocal IOLs

M. Klementova *CZECH REPUBLIC*

Clinical refractive outcomes after binocular implantation of RayOne trifocal intraocular lens: three months' follow-up

B. Ko, J. Kim *SOUTH KOREA*

Clinical outcomes of bioptics for residual refractive error correction after cataract surgery with multifocal intraocular lens implantation

M. Konovalova, K. Pershin, N. Pashinova, A. Tsygankov, M. Konovalov *RUSSIA*

New single-piece aspheric diffractive trifocal intraocular lens optic power calculation

G. Kontadakis, N. Karyotakis, I. Pallikaris *GREECE*

Visual acuity and patient satisfaction after bilateral implantation of a trifocal enhanced-depth-of-focus intraocular lens

R. Lapid-Gortzak, V. Vrijman, I. van der Meulen, J. van der Linden *THE NETHERLANDS*

Comparison of a novel sinusoidal trifocal with two diffractive non-apodised trifocal IOLs

E. Law, R. Aggarwal, H. Kasaby, H. Buckhurst, P. Buckhurst *UK*

Visual function and spectacle independence following bilateral implantation of monofocal and multifocal intraocular lenses: a randomised clinical trial

J. Lee, J. Shin, S. Kim, J. Lee *SOUTH KOREA*

Clinical outcomes of patients implanted with multifocal and extended-depth-of-focus intraocular lenses

R. Lucchesi, I. Kaiser, C. Herbers, J. Winters, M. Moftah, S. Abdassalam, F. Kretz *GERMANY*

Comparison of the functional results of three different trifocal lenses

C. Martin-Reyes, F. Llovet-Osuna, J. Ortega-Usobiaga, A. Llovet-Rausell, J. Beltran-Sanz, F. Gonzalez-López, R. Bilbao-Calabuig *SPAIN*

Analysing dissatisfaction with a new diffractive trifocal IOL: Rayner RayOne®

K. Meades *AUSTRALIA*

An Australian experience with bilateral bifocal lens implantation of differing reading addition

E. Mrukwa-Kominek, A. Bonczar-Warchoń, W. Luboń *POLAND*

Vision-related quality of life after implantation of premium intraocular lenses

A. Mularoni, A. Imburgia, G. Mussoni *SAN MARINO*

Visual performance and patient satisfaction after implantation of AcrySof® IQ PanOptix®

M. Ortega-García, J. Zapata-Díaz, L. Vallés-San-Leandro, M. Rodríguez-Izquierdo, J. Lajara-Blesa *SPAIN*

Clinical experience in Murcia with new complementary IOLs with advanced diffractive profiles

K. Podboraczynska-Jodko, W. Lubinski, M. Post *POLAND*

Comparison of clinical outcomes after cataract surgery with implantation of the TECNIS Symphony and AT LARA 829 MP intraocular lenses

T. Raffray, J. Bertholom, T. Louesdon, A. Massot *FRANCE*

Clinical comparison of two complementary IOLs with new diffractive design against bifocal IOLs

P. Rattanasirivilai, R. Foulkes *UK*

Comparison of the refractive and reported functional outcomes after implantation of the TECNIS Symphony, an extended-range-of-vision intraocular lens (IOL) in post-refractive and non-refractive patients undergoing cataract extraction

M. Rodriguez-Vallejo, N. Garzon, J. Martinez, Y. Zhou, F. Poyales, J. Fernandez *SPAIN*

New method for assessing the accuracy of formulas for intraocular lens power calculation according to the normal eye biometric parameters

O. Rudycheva, O. Kravchenko, N. Lutsenko, O. Isakova *UKRAINE*

Clinical case of refractive lens exchange in patient with occult choroidal neovascularisation

J. Ruiz-Alcocer, J. García-Pérez, M. García-González, J. Gros-Otero, L. Álvarez-Rementería *SPAIN*

Visual quality and patient satisfaction with a trifocal intraocular lens

T. Schultz, B. Jackson, P. Janakiraman, B. Dick *GERMANY*

Vision quality of an enhanced monofocal intraocular lens compared to an aspheric monofocal intraocular lens in a clinical investigation

D. Shah, S. Haldipurkar, V. Shetty, Z. Khatib, R. Dhamankar, S. Tanwar, P. Sankhe *INDIA*

Comparison of reading parameters by MNREAD acuity chart in phakic, monofocal and multifocal patients

S. Shah, S. Shah, S. Rothe, O. Pirdankar *INDIA*

Visual outcomes and optical image quality metric in eyes implanted with full-range IOL

N. Shroff, A. Koul, G. Singh, R. Dutta, R. Shroff *INDIA*

Visual outcomes of a new trifocal IOL in Indian eyes

P. Smachliou, V. Mela *GREECE*

Preliminary visual and refractive outcomes of a new trifocal intraocular lens

I. Solomatins, J. Gertnere, A. Solomatins, M. Solomatins *LATVIA*

Visual outcomes and patient satisfaction following implantation of different presbyopia-correcting IOLs

F. Spedale, F. Blasetti, G. Di Girolamo, D. Rorro *ITALY*

RayOne trifocal vs Sulcoflex in terms of visual acuity and contrast sensitivity

J. Suarez, G. Arcos, N. Mendieta, I. Ayet, P. Rojo, C. Junca *SPAIN*

Traumatic aniridia of 360° in a patient with multifocal intraocular lens

E. Taylor, D. Breyer, K. Klabbe, H. Kaymak, F. Kretz, G. Auffarth, T. Ax *GERMANY*

First refractive outcomes and visual performance after implantation of a new EDOF trifocal intraocular lens

M. Tomita *JAPAN*

Six-month clinical outcomes of new trifocal intraocular lenses using the sinusoidal pattern with enhanced depth of focus

A. Tsygankov, K. Pershin, N. Pashinova, M. Konovalova, M. Konovalov *RUSSIA*

Primary posterior capsulorhexis in bifocal IOLs implantation

O. Tumanova, I. Medvedev, N. Medvedeva *RUSSIA*

Functional results of the implantation of multifocal intraocular lenses

J. Winters, C. Herbers, I. Kaiser, R. Lucchesi, S. Abdassalam, M. Moftah, F. Kretz *GERMANY*

Evaluation of intermediate visual acuity comparing a mix-and-match approach combining an EDOF IOL and a multifocal intraocular lens vs bilateral implantation of an EDOF intraocular lens

Pseudophakic IOLs: Toric

E. Barberá *SPAIN*

Time-efficiency assessment of guided toric IOL cataract surgery: a pilot study

P. Beliakouski, N. Pazniak, I. Pashkin, E. Likhovad *BELARUS*

Clinical results of implantation of multifocal toric intraocular lenses

P. Burgos Fernandez, A. Matheu Fabra, M. Quiroz Quiroga, J. Armentia Perez De Mendiola *SPAIN*

Clinical findings in the postoperative course of cataract surgery with toric intraocular lens (IOL): is macular optical coherence tomography (OCT) necessary as a routine preoperative test?

K. Buusova Smeckova, Z. Smecka, B. Strnadova, A. Kovacikova *CZECH REPUBLIC*

Comparison of the results of implantation of premium toric lenses using the actual and theoretical values of the posterior corneal surface

I. Cabeza Gil, B. Calvo, L. Remón, M. Ariza *SPAIN*

Understanding the main mechanical parameters of C-loop intraocular lenses

E. Carolina, J. Riera, H. Scarfone *ARGENTINA*

Prediction of residual astigmatism after cataract surgery with toric intraocular lens (IOL) implantation

F. D'Oria, A. Galeone, P. Puzo, N. Cardascia, G. Alessio *ITALY*

Ocular biometric characteristics and corneal astigmatism in cataract surgery candidates: a retrospective study

B. Dubinsky-Pertzov, S. Rothman, O. Mahler, L. Or, I. Gazit, E. Pras, A. Einan-Lifshitz *ISRAEL*

Clinical outcomes of Ankoris toric intraocular lens implantation using a computer-assisted marker system

T. Ferreira, F. Ribeiro *PORTUGAL*

Comparison of refractive and visual outcomes of two trifocal toric intraocular lenses

C. Hamer, G. Shum, L. Bunn, J. Marsden, H. Buckhurst, C. Purslow, P. Buckhurst *UK*

The effect of loss of contrast and distortion on vision and mobility tasks

T. Kohnen, R. Forster, M. Böhm, M. Herzog, E. Hemkeppler, K. Petermann, C. Lwowski *GERMANY*

Visual results and rotational stability after implantation of a toric panfocal intraocular lens: three-month results

L. Lipsky, G. Barrett *ISRAEL*

Comparison of toric intraocular lens alignment error with different toric markers

P. Marti Rodrigo, E. Segovia Maldonado, J. Armentia Perez de Mendiola, A. Herranz Cabarcos *SPAIN*

14 diopter astigmatism toric intraocular lens for management of a patient with pellucid marginal degeneration and floppy iris syndrome

I. Matthäi, F. Rüfer, T. Herbst, D. Holland *GERMANY*

Visual performance, rotational stability, PCO-rate and patient satisfaction with an asymmetric toric EDOF-IOL with one-year follow-up

O. Moraru, C. Moraru, M. Iliescu *ROMANIA*

Refractive outcomes after TECNIS toric intraocular lens implantation in cataract patients with coexistent corneal astigmatism

U. Oberheide, P. Thiée, G. Gerten, O. Kermani *GERMANY*

Ray-tracing simulations of axis deviation of toric IOL in keratoconic eyes

N. Pesztenlehrer, V. Banfi, R. Marko *HUNGARY*

Subjective and objective postoperative astigmatism using Barrett Universal II and toric calculator formulae and digital marking

H. Pizio, G. Lau, V. Kolesnitchenko, A. Pilon *USA*

Astigmatism correction in cataract surgery with new monofocal toric intraocular lens designed to be spherical-aberration neutral

D. Rathod, S. Ganesh, S. Brar *INDIA*

Comparison of visual outcomes and rotational stability following implantation of two different toric intraocular lenses

V. Rinconcillo Medellin, J. Carrera Sanchez, E. Mendoza Schuster *MEXICO*

Correction of astigmatism with toric intraocular lenses at the National Rehabilitation Institute of Mexico City, Mexico

A. Semykin, S. Izmailova *RUSSIA*

Phacoemulsification with toric IOL implantation in patients with stabilized keratectatic process: our experience

K. Stjepanek, O. Findl, N. Hirschall, J. Hienert, M. Ruit *AUSTRIA*

Comparison of visual performance of two diffractive trifocal intraocular lenses: a randomised controlled trial

C. Tataru, A. Dogaroiu, C. Tataru, C. Dogaroiu *ROMANIA*
Enhancing plate-haptic toric IOLs' rotational stability in high myopia using a Cionni ring

A. Ursic *SLOVENIA*

Residual astigmatism after toric intraocular lens implantation

M. Vural, G. Sahin *TURKEY*

Surgical outcomes of toric intraocular lens implantation in eyes with more than 1.50 D astigmatism

V. Webers, N. Bauer, N. Visser, T. Berendschot, I. Saelens, H. Beckers, R. Nuijts *THE NETHERLANDS*

First-generation vs second-generation toric calculator for toric IOL implantations

Quality of Vision Evaluation Techniques

F. Aghajani, A. Haghighparast, S. Sobhani, A. Moradi, F. Nourizadeh, A. Shojaei *IRAN*

Interpupillary distance values in an Iranian population: the correlation of three methods of IPD measurement

S. Bamdad, M. Abdollahian *IRAN*

Comparisons of spheric and vector analysis of astigmatism results of four refraction methods

M. Henriquez, M. Camino, R. Zúñiga, C. Maldonado, N. Canorio, J. Chauca, L. Izquierdo Jr *PERU*

Efficacy of topical steroid vs oral steroid in the treatment of acute ocular chemical burns

I. Karaca, O. Barut Selver, M. Palamar, S. Egrilmez, A. Yagci *TURKEY*

Evaluation of ocular surface and Meibomian gland dysfunction in patients with Stevens-Johnson syndrome

A. Kasumović, I. Krolo, I. Radman, M. Malenica Ravlić, K. Lončarić, Z. Vatavuk *CROATIA*

Comparison of contrast sensitivity, visual acuity, twilight vision and corneal topography of soft and rigid gas-permeable contact lens wearers

M. Lecumberri, C. Moser, M. Garat *SPAIN*

Wavefront analysis and quality of vision in irregular corneas evaluated with Sirius CSO

Refractive Corneal Inlays

S. Jacob *INDIA*

CAIRS (corneal allogenic intrastromal ring segment) implantation in previously cross-linked keratoconus

T. Manoilo, G. Parkhomenko *UKRAINE*

The results of the implantation of intracorneal segment Ferrara ring in the treatment of keratoconus

M. Rosman, D. Chua, A. Chan, S. Chee, J. Mehta *SINGAPORE*

Thermal damage of corneal inlay due to cosmetic eyelid procedure

G. Santaella Serrano, D. Rootman, N. Singar, N. Sorkin *CANADA*

Unilateral corneal ectasia post-KAMRA insertion

A. Titov, S. Nikulin, D. Mirsaitova *RUSSIA*

Efficiency analysis of intrastromal corneal segment (ICR) implantation among patients with keratoconus

Refractive Lens Exchange

A. Abdul Hamid, S. Vaswani, I. Siso-Fuertes, J. Dermott, A. Hartwig, C. O'Donnell *UK*

Comparative outcomes of refractive lens exchange treatments using total keratometry measurements vs anterior keratometry measurements

D. Kazakos, S. Hannan, K. Hettinger, M. Pelouskova *UK*

Refractive lens exchange in plano presbyopia: can this most difficult group of patients be satisfied with multifocal IOLs?

M. Lecumberri, C. Moser, M. Garat *SPAIN*

Refractive surprise after cataract surgery in a patient with unnoticed form fruste keratoconus

C. O'Donnell, I. Siso-Fuertes, A. Hartwig, S. Vaswani, J. Dermott, S. Rehman *UK*

Patient-reported outcomes (PROMs) in refractive lens exchange (RLE): factors in patient dissatisfaction

E. Qerimi *ALBANIA*

Refractive lens exchange in young high hyperopia

S. Rehman, I. Siso-Fuertes, A. Hartwig, S. Vaswani, J. Dermott, C. O'Donnell *UK*

Refractive lens exchange with multifocal intraocular lenses in amblyopic adults

M. Shanturova, T. Lureva, E. Makarova *RUSSIA*

Combined method of myopic anisometropia correction

Š. Skorkovská, A. Cunderlova, J. Vaverka, P. Kveton *CZECH REPUBLIC*

Long-term outcomes of presbyopic lens exchange (PRELEX) with diffractive trifocal intraocular lens implantation

Refractive Surgery Complications

A. Agrawal, J. Reddy *INDIA*

Management of epithelial ingrowth following vertical gas breakthrough: a case report

H. Alrabiah, N. Alsaleem, F. Aljassar, A. Almassry, M. Alagouz, G. Alhamdan, J. Alió *KUWAIT*

Epidemic outbreak of severe mixed infectious keratitis following small-incision lenticule extraction at a refractive centre in Kuwait

A. Balestrazzi, E. Balestrazzi, A. Balestrazzi, I. Giannico, P. Michieletto *ITALY*

Damaged flap after FemtoLASIK: all is not lost!

E-POSTERS

M. Boháč, M. Jagic, A. Biscevic, N. Gabric, S. Patel *CROATIA*

Management of post-LASIK ectasia

S. Brar, S. Ganesh *INDIA*

Management of post-SMILE ectasia with tissue addition and simultaneous pocket collagen cross-linking

M. Davari, M. Rezvani, S. Mirshahi *IRAN*

Investigation of astigmatism type and its related factors in patients with pterygium referred to the ophthalmology clinic of Vali-e-Asr Hospital of Birjand

I. Dutchin, M. Pshenichnov *RUSSIA*

Variants of corneal epithelium ingrowths after ReLEx SMILE and description of their destruction by Nd:YAG laser

M. Fakhry Khattab, S. Eissa, K. Abdel Aziz, T. ElNaggar, O. Said, A. Abdelatiff, M. Anis *EGYPT*

Post-laser in situ keratomileusis ectasia

P. Gogri, M. Parkar, A. Kate, N. Jaiswal *INDIA*

Visual outcome of peripheral sterile corneal infiltrates following photorefractive keratectomy

M. Hermina, M. Roshdy, S. Wahba, A. Elawamry, K. Naguib *EGYPT*

Preoperative and intraoperative ectasia risk factors in laser refractive surgery

I. Jun, D. Kang, J. Jang, S. Arba Mosquera, H. Lee, K. Seo, T. Kim *SOUTH KOREA*

The efficacy of same-day transepithelial photorefractive keratectomy (PRK) in cases of suction loss during small-incision lenticule extraction (SMILE)

A. Kirmaci, Y. Yildirim, B. Kepez Yildiz, A. Agca *TURKEY*

Suction loss during small incision lenticule extraction (SMILE): incidence and outcomes

A. Kulshrestha, A. Bishnoi, S. Handa, A. Gupta *INDIA*

Discussion of diagnosis and management of special scenario of decrease of vision in post-LASIK eyes

A. Lazaridis, S. Brar, S. Ganesh *GERMANY*

Management and outcomes of retained lenticules and lenticule fragments removal after a complicated SMILE

L. Liu, J. Bai, T. Zhang *CHINA*

Observation and control of signal of suction loss during SMILE surgery

A. Oikonomou, P. Stergiopoulos, K. Ntamos, N. Ziakas *GREECE*

Management of a very thin flap created in femtosecond LASIK surgery with a following two-step procedure

J. Park, J. Rhim, C. Im *SOUTH KOREA*

Clinical efficacy and safety of immediate manual Meibomian gland expression after thermal pulsation (LipiFlow) for post-LASIK obstructive Meibomian gland obstruction

M. Parkar, P. Vaddavalli *INDIA*

Epithelial ingrowth following central toxic keratopathy

M. Saad, N. Youcef *EGYPT*

Changing our minds about predisposing factors for post-LASIK ectasia

M. Soleimani *IRAN*

Microbial keratitis following intracorneal ring implantation

S. Taneri, A. Rost, S. Kießler, M. Elling, B. Dick *GERMANY*

Traumatic flap dislocation by paper aeroplane 10 years after LASIK

O. Wolter, M. Versteegh, E. Timmerman, H. Ockels, I. Nijdam *THE NETHERLANDS*

Case report: corneal interface epithelial ingrowth after ReLEx SMILE – literature review and treatment

O. Wolter, M. Versteegh, E. Timmerman, H. Ockels, I. Nijdam *THE NETHERLANDS*

Case report of a false-plane dissection during ReLEx SMILE: treatment and results

Refractive Surgery New Techniques/Instrumentation/Devices

M. Abdalla, K. Nagy, O. Ibrahim *EGYPT*

Correction of irregular cornea post-radial keratotomy using femto laser-assisted intracorneal rings

J. Bai, L. Liu, T. Zhang *CHINA*

Mid-long-term clinical outcomes of myopic astigmatism correction with topography-guided femtosecond laser-assisted astigmatic keratotomy combined with topography-guided customised ablation

Z. Bo, Y. Xuefei, Z. Qian *CHINA*

Efficacy and safety of implantable collamer lens with central hole in the correction of moderate and low myopia

A. El Shahed, R. El Shahed *EGYPT*

Epithelial thickness mapping (ETM): transepithelial photorefractive keratectomy (tPRK) vs mechanical photorefractive keratectomy (PRK)

L. Li *CHINA*

Method and outcome of reducing viscoelastic retention during implantation of phakic posterior intraocular lens

A. Mularoni, L. Rania, G. Mussoni *SAN MARINO*

New variable thickness rings (VTR) in corneal ectasia regularisation: long-term results

H. Rashid *BANGLADESH*

The challenges in the learning curve of small-incision lenticule extraction in a Bangladeshi population

L. Sun, Y. Zhao, X. Zhang, M. Tian, X. Zhou *CHINA*

Keratometry changes and wound healing after microwave thermokeratoplasty on rabbits

A. Wylegala, R. Mazur, B. Bolek, E. Wylęgała *POLAND*

Reproducibility, repeatability and agreement of corneal topography measured by Revo NX, Galilei G6 and Casia 2

Refractive Surgery Practice Styles

I. Aznauryan, S. Agagulyan, V. Balasanyan, A. Shpak *RUSSIA*

Refractive surgery in children with accommodative and partially accommodative esotropia

E. Branchevskaya, S. Branchevsky *RUSSIA*

Choosing the strategy of visual function improvement in RK patients using Scheimpflug tomography and classification of corneal incision healing types

S. Ganesh, S. Brar *INDIA*

Comparison of quality-of-vision following SMILE vs SMILE combined with accelerated cross-linking for borderline corneas

F. Gilardoni, E. Torres-Netto, R. Abrishamchi, N. Hafezi, F. Hafezi *SWITZERLAND*

Assessment of postoperative haze after deep transepithelial photorefractive keratectomy (trans-PRK) without mitomycin using a new ablation algorithm to smoothen the stromal wound bed

R. Hanna, M. Mimouni, A. Plaza, J. Alió *ISRAEL*

Factors predicting successful customised excimer laser treatment in irregular cornea

P. Patel, R. Shetty, P. Khamar *INDIA*

Psychological evaluation in ophthalmologic office

E. Sunay, F. Helvacioğlu, O. Kavalcioglu, S. Kaya Unsal, E. Bulut *TURKEY*

Long-term outcomes of keratoconus management with corneal wavefront-guided normalisation combined with corneal cross-linking stabilisation

Training and Innovation in Education

N. Dash, D. Choudhury *INDIA*

Effect of wetlab training on construction of sclerocorneal wound and surgically-induced astigmatism thereof by residents performing manual small incision cataract surgery

C. Gunasekera, T. Patel, U. Hussain *UK*

Home-based high fidelity low cost simulation of DMEK using a smartphone and an onion to replace an operating microscope and corneal donor tissue

M. Islam, L. Maubon *UK*

How long does it take for a junior to do a phaco? How can we use this information to improve surgical training?

V. Mittal, R. Mittal, S. Singh, P. Narang, N. Sahdev *INDIA*

Goat's eye as a wet-lab model for learning iris-claw intraocular lens implantation

A. Pujari, J. Urkude, R. Singh, R. Mukhija, N. Sharma *INDIA*

Slit lamp protractor: refinement of existing slit lamp toric scale

J. Toledo Martínez, R. Baldivieso Hurtado, S. Peniche Moreno, J. Soria Viteri *MEXICO*

Impact of the surgical simulator on lowering complications during cataract surgery carried out by ophthalmology residents

S. Tung, P. Watts, D. Ho, G. Williams *UK*

How stressful is cataract surgery for consultants and ophthalmic trainees?

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14.00 – 16.00

North 3

In addition to the overall Michael Blumenthal Award, prizes will be awarded in the following categories:

- Difficult and Special Cases
- Educational
- Historical
- Innovative
- Resident in Training
- Scientific

In order to receive the prize, winners must be present at the Awards Session.

O. Abdalrahman, A. Rodriguez, J. Alió *SPAIN*

Reconstruction of superficial ocular eroding lesion with autologous fibrin membrane and platelet-rich plasma (PRP)

A. Agarwal *INDIA*

Couching

A. Agarwal *INDIA*

Ocular masquerades

A. Agarwal *INDIA*

Pinhole pupilloplasty

A. Agarwal *INDIA*

When aqueous meets vitreous

A. Agrawal, J. Reddy *INDIA*

Managing post-RK hyperopia: close the cuts to clear the clouds!

M. Ahmad *UK*

Ophthalmology in the medieval Middle East

P. Ahuja, R. Shetty, Z. Dadachanji *INDIA*

Toolbox to fix imperfect corneas

A. Albuainain, B. Albloushi, M. Aljindan *BAHRAIN*

Surgical removal of inadvertent intralenticular sustained-release dexamethasone implant (Ozurdex) and implant one-piece PC IOL

H. Alrabiah, J. Alió *KUWAIT*

Selective laser capsulotomy with CAPSULaser in normal and special cases

A. Alsharif *SAUDI ARABIA*

Four types of cataract in one eye

N. Anisimova, N. Shilova, B. Malyugin *RUSSIA*

Prolene 9-0 suture breakage after cow-hitch suture fixation of the modified CTR

R. Araújo-Miranda, C. Peris, E. Fernández-López, M. Roig, M. Hernández *SPAIN*

Sutureless piggyback intracapsular artificial iris implantation: a novel technique to address aniridia

R. Asaria, Z. Elhousseini *UK*

A novel way of artificial iris scleral fixation

R. Badaro *BRAZIL*

The post H-LASIK conundrum

S. Bajimaya, S. Ruit, A. Crandall *NEPAL*

Four-point Gore-Tex suture scleral fixation of preloaded hydrophobic intraocular lens from Nepal: a Tilganga foldable tetra SFIOL innovation

C. Balachandran *AUSTRALIA*

The DMEK kite

N. Balakrishnan, R. Shetty, S. Sethu, A. Ghosh *INDIA*

Rituals to make photorefractive keratectomy (PRK) perfect

A. Balamoun *EGYPT*

Can this be real?

A. Balamoun *EGYPT*

Risky, but worth it!

G. Balanikas, P. Oikonomidis *GREECE*

Imaging and depiction in ophthalmology throughout the centuries

M. Balgos, J. Alió del Barrio *SPAIN*

Repeat Descemet's membrane endothelial keratoplasty (DMEK) in a case of graft detachment

B. Ballet, C. Janssen, S. Ní Dhubhghaill,

M.J. Tassignon *BELGIUM*

Cataract surgery in anterior megalophthalmos: challenges and special considerations using bag-in-the-lens implantation

M. Balyan, A. Jurangal, G. Gupta, C. Malhotra,

A. Jain *INDIA*

Technique of sutureless intraocular lens exchange in a case of opacified hydrophilic lens

U. Behera, P. Thakur, A. Singh *INDIA*

Bent haptic method of scleral fixation of intraocular lens: a new cost-effective technique

S. Belghmaidi, B. Soumia, H. Ibtissam,

M. Abdeljalil *MOROCCO*

Corneal examination: slit lamp biomicroscopy

F. Bellani, T. Jaeschke *ARGENTINA*

A case of traumatic cataract with severe zonular dialysis

S. Bhattacharjee *INDIA*

Intraoperative miosis: B-HEX safe and easy pupil expander

S. Bhattacharjee *INDIA*

Lost a battle to win the war

M. Bhogal, V. Ho *UK*

A tale of two eyes: identifying and managing intraoperative aqueous misdirection

A. Biala, J. Reddy *INDIA*

Salvaging stuck Zepto

H. Bolu, M. Fece, C. Kucukerdonmez *TURKEY*

23-gauge trocar-assisted transscleral IOL implantation technique

H. Bolu, M. Fece *TURKEY*
Alcohol-assisted PRK+MMC

S. Brar, S. Ganesh, R. Arra, K. Sriprakash *INDIA*
Boost that SMILE: enhancing the 'wow' factor with small-incision lenticule extraction

L. Buratto, S. Ferrandes, U. Bassi *ITALY*
Do you need to explant a phakic IOL and perform cataract surgery?

L. Buratto, S. Ferrandes, U. Bassi *ITALY*
Do you need to operate the cataract in an eye that has already received radial keratotomy?

J. Campello Lluch, J. Ruiz Colecha, L. Rial Alvarez, J. Belda Sanchis *SPAIN*
'Paperweight capsulorhexis': a tool for small pupils

E. Can *TURKEY*
A novel method for sutureless amniotic membrane fixation to the conjunctiva in the setting of ocular surface diseases

S. Canabrava *BRAZIL*
Novel double-flanged technique for ectopia lentis

L. Capitian, R. Nose, W. Nose *BRAZIL*
Contra chop: a new technique of pre-fracture

J. Cendelin, S. Rusnak, N. Ondrova *CZECH REPUBLIC*
Cataract surgery in case of damaged or lost capsular bag

J. Cendelin, L. Hecova, S. Rusnak, N. Ondrova *CZECH REPUBLIC*
Modelling stromal hydration techniques for clear corneal incision

R. Chaudhary *INDIA*
Posterior polar cataract: how to be safe as a resident

W. Chong Guang Wei *SINGAPORE*
Spontaneous posterior capsule rupture in a posterior polar cataract

D. Choudhary, N. Agrawal *INDIA*
New surgical modality for management of corneal thinning using Bowman's membrane

D. Choudhary, N. Agarwal *INDIA*
Simple excision with Bowman's membrane tuck-in: new surgical approach for limbal dermoids in children

A. Corsi *ITALY*
Passive cap-vac: a simple and safe technique to clean the posterior capsule

L. Daniel Ponniah *INDIA*
Deep linking

L. Daniel Ponniah, M. Jeyakumar, H. Anandan *INDIA*
Herbal magic: a superluminal anaesthetic ethnomedicine

J. Davó-Cabrera, J. Mataix-Boronat, M. Desco-Esteban, J. Piá-Paredes, S. Montolió-Marzo, E. Alfonso-Muñoz *SPAIN*
Follow-up of a subretinal lens fragment after a complicated cataract surgery: resorption sequence of the fragment by optical coherence tomography (OCT)

V. de Rojas, R. Lorente, M. Álvarez, P. Simón, B. Lorente, L. Zurutuza, S. Rodríguez *SPAIN*
Zonular weakness: the main challenge of cataract surgery in pseudoexfoliation syndrome

D. Delgado Arellano, E. Chavez Mondragon, H. Matiz Moreno, M. Garzon *MEXICO*
Microspherophakia: IOL in bag

P. Desai, S. Desai *INDIA*
Penetrating keratoplasty with glued intraocular lens (IOL) as a valid option for patients with aphakic bullous keratopathy

U. Devgan *USA*
IOL twist technique to easily explant the IOL

N. Din, M. Bizrah, M. Shoa, B. Colizzi, G. Cisa Asinari di Gresy, A. Mearza *UK*
Successful combined complex anterior segment repair with Descemet's stripping automated endothelial keratoplasty (DSAEK)

K. Doctor, B. Shah, A. Kulkarni, S. Srivstava *INDIA*
Tinkles for capsular wrinkles: demystifying zonular support

D. Dragnea, S. Ní Dhubhghaill, I. Lavy, V. Bourgonje, I. Dapena, S. Oellerich, G. Melles *ROMANIA*
In vitro evaluation of the feasibility of slit-lamp Nd:YAG laser descemetorhexis

K. Droustas, A. Sideri, A. Karamaounas, F. Psinakis, D. Alexiadou, V. Katsiampoula, P. Petrou *GREECE*
Implantation of a new scleral-fixated IOL in challenging vitreo-corneal cases

H. Elbedewy, M. Ghoraba *EGYPT*
Tricks in intumescent cataract surgery

C. Fan, L. lu, S. Ko *HONG KONG*
Endoscope-guided removal of angular intraocular foreign body

F. Fasce, E. Corbelli *ITALY*
A sputnik lens landed on iris

O. Fechin *RUSSIA*
Cut and conquer: a sequel

E. Ferreira Jr, A. Hüning, J. Rufino Neto, M. Lima *BRAZIL*
What (not) to do in paediatric cataract surgery

M. Forlini, S. Zagari, M. Zagari, E. Galvagno *ITALY*
'Il gattopardo' 2 (the leopard's second eye)

F. Franco, P. Grasso Cannizzo *ITALY*
FLACS in ectopia lentis

N. Gandhi *INDIA*
Phacoemulsification in a microphthalmic eye

S. Ganekal *INDIA*
Toric piggyback (Sulcoflex) IOL

A. Garcia-Garcia *SPAIN*
Large bubble behind capsular bag during a phaco: pars plana vitrectomy trocar as solution

M. Ghabra, Z. Elhousseini, H. Ghabra *UK*
Capsulotomy creation using nano-pulse technique in microspherophakia with in-the-bag IOL fixation

VIDEO COMPETITION

M. Ghoreishi, M. Rafat, N. Lagali *IRAN*

Refractive correction by intracorneal implantation of a synthetic collagen artificial cornea

P. Gireesh, V. Vellam, S. Nachiappan *INDIA*

'Piggyback' phacoemulsification in morganian, hypermature, and phacolytic cataracts

P. Gireesh, V. Vellam, M. Nath, S. Mundana *INDIA*

Single haptic iris fixation technique

S. Goel, M. Goel *INDIA*

Sticky situations during phaco surgery

S. Goel, S. Mukerjee, M. Goel *INDIA*

Taming the CAT

P. Gogri, S. Chaurasia *INDIA*

Cornea plana: diagnosis and management with special emphasis on cataract surgery

F. Gonzalez del Valle, M. De Frutos León,

E. Infantes Molina, E. Avendaño Cantos,

J. Gálvez Martínez, D. Mesa Varona,

Á. Barraón Rodríguez *SPAIN*

Implant of an intraocular lens on a cyclitic membrane assisted by femto laser

F. Gonzalez del Valle, J. Lara Peñaranda,

T. Infante León, E. Infantes Molina,

L. García-Filoso Moraleda, J. Zarco Tejada,

E. López Mondéjar *SPAIN*

New ophthalmic surgical training models: nowadays, is virtual surgery essential in the training of new surgeons?

M. Guerrero Martir, T. Mylonopoulos Caripidis,

D. Garza Enriquez *SPAIN*

Manual nucleo-fragmentation small-incision cataract surgery performed by a resident to face a hypermature cataract

A. Gungab, R. Uy *PHILIPPINES*

Secondary glaucoma from retrofixated iris-claw lens in left eye

K. Gupta, P. Chawla Gupta, J. Ram *INDIA*

Management of a challenging case of posterior polar cataract (PPC) using femtosecond laser (FLACS)

M. Gupta, R. Malviya *INDIA*

Phakic intraocular lens (pIOL) implant: single port approach

N. Handayani, T. Sulistya, N. Handayani *INDONESIA*

Phacoemulsification in patient with Vogt-Koyanagi-Harada (VKH) syndrome

A. Herranz, J. Armentia *SPAIN*

Secondary implant of intraocular lens (IOL) and iridopexia in patient with iris coloboma and aphakia

A. Hirota, T. Oshika, F. Okamoto, S. Hoshi, T. Murakami,

S. Morita, K. Yasuda *JAPAN*

Clinical and experimental evaluation of back-flow hydrodissection (BFH) compared to conventional hydrodissection (Hydro)

A. Issa *IRAQ*

Moving lenses out and in... for ever!

M. Izak, A. Izakova, K. Selecka-Mozuchova,

F. Schwarz *SLOVAKIA*

Polar mission

S. Jacob *INDIA*

White or sight? The choice is yours! Modified pre-descemetetic DALK for primary treatment of acute hydrops: to prevent scarring and other complications

K. Jadidi, F. Nejat, H. Aghamollaei *IRAN*

Ring-assisted limbal creation surgery (RALCS) for treatment of advanced keratoconus

M. João, J. Costa, P. Brito, M. Domingues *PORTUGAL*

Duet surgery in a nanophthalmic patient

D. Johnson, A. Duimering, A. Ralhan, J. Leroux *CANADA*

Partial LASIK flap amputation for treatment of recurrent epithelial ingrowth

M. Jung, J. Lee, E. Lee *SOUTH KOREA*

Cataract surgery after acute angle-closure glaucoma with zonular weakness: using iris retractor and iris-claw IOL

A. Jurangal, G. Gupta, M. Balyan, A. Kumar Jain,

C. Malhotra *INDIA*

Management of varied presentations of post-traumatic cataract

C. Kalamkar, A. Mukherjee, R. Rao, B. Patel *INDIA*

'Nucleus snap-back sign': a new sign in phacoemulsification of hard cataracts

A. Kanellopoulos *GREECE*

Management of anterior corneal dystrophies (ACD) with phototherapeutic topo-guided keratectomy (tPTK) combined with CXL

A. Kanellopoulos *GREECE*

Post-DSAEK topography-guided PRK (tPRK): long-term refractive and corneal imaging evaluation

N. Kapshuk, L. Khrystych *UKRAINE*

Challenging case of traumatic cataract extraction

J. Kasireddy, V. Guduru, A. Inguwale, N. Shah *INDIA*

The ring of power: a novel device to control astigmatism in keratoplasty

R. Kekunnaya, J. Sheth, S. Aulakh *INDIA*

IOL implantation in microspherophakia: different scenarios

K. Khalifa *EGYPT*

Posterior capsulorhexis and intraocular lens (IOL) capture

K. Khalifa *EGYPT*

Side-viewing camera with Alcon Centurion phacoemulsification machine

P. Khamar, R. Shetty, P. Ahuja *INDIA*

How important is it to have a psychology couch in our clinics?

M. Kim, E. Han *UAE*

Removal of liquefied lens without phacoemulsification in a case with phacolytic glaucoma

S. Kiran, G. Gupta, A. Jurangal, M. Balyan, A. Jain,

C. Malhotra *INDIA*

Phacoemulsification in cataract with central leucomatous corneal opacity

M. Kishimoto *JAPAN*
Three-second miracle

G. Kontadakis, D. Liakopoulos, N. Tsakalis, N. Tsilimbaris *GREECE*
Avoiding disaster during capsulorhexis

S. Kopayev, A. Verzin, A. Vlasenko, D. Tutayev, N. Anisimova *RUSSIA*
All-in-one solution to lens exchange and corneal astigmatism correction: femtosecond laser-assisted surgery

A. Kulshrestha, S. Handa, A. Thakur, A. Gupta *INDIA*
Management of a case of taut Descemet's membrane detachment (DMD) by intraoperative optical coherence tomography-assisted (OCT) Descemet's membranotomy

G. Kundu, R. Shetty, P. Ahuja *INDIA*
Many moods of cross-linking outcomes

M. Laginaf *UK*
From war fields to Moorfields: a history of combat and the eye

C. Lalitha, S. Parija *INDIA*
Episiotomy for trapped haptic

M. Lane, Y. Ghosh *UK*
Every white cataract has a silver learning

H. Lee, M. Dimitry, H. Naveed, A. Gupta *UK*
Cataract surgery: when the 'wow' factor has gone too quickly!

D. Lin, P. Manqiang, L. Zhao, M. Khan *CHINA*
'No viscoat' implantable collamer lens implantation

G. Litvin *ISRAEL*
Corneal KPro implantation in a rabbit model

A. Mahajan *INDIA*
'Multichop': modified horizontal chop for nucleus disassembly

A. Mahajan *INDIA*
Deep scleral flap viscodissection technique for DALK

S. Mahajan, R. Om Parkash, T. Om Parkash, A. Khanna *INDIA*
An aspheric, hydrophobic, acrylic intraocular lens (IOL) design with unique optic holes

S. Mahmah, H. Boudedja, M. Terahi *ALGERIA*
It seems easy but it was challenging for me!

R. Malik, M. Sachdeva, H. Gupta, A. Gupta, R. Narula, L. Verma *INDIA*
Chandelier retroillumination: an indispensable aid in complex anterior segment surgery

R. Malviya, M. Gupta, L. Malav *INDIA*
Intraocular lens (IOL) placement in primary posterior capsular dehiscence (PPCD)

F. March De Ribot, A. March de Ribot, T. Torrent, J. Felip, J. Tarrús, F. Escalada *SPAIN*
Asteroid hyalosis in cataract surgery

F. March De Ribot, A. March de Ribot, T. Torrent, J. Felip, J. Tarrús, F. Escalada *SPAIN*
Chronic intraocular lens complication

H. Marotta, R. Brunzini, F. Pakoslawski *ARGENTINA*
Post-cataract endophthalmitis: how to treat and prevent

J. Martinez Toldos, A. Navarro-Navarro, C. Fernandez-Martinez *SPAIN*
Femtosecond laser-assisted cataract surgery (FLACS) without explantation of prepupillary iris-claw lens

Q. Maskati *INDIA*
The art, science and relevance of conjunctivoplasty or Gunderson's flap procedure in the 21st century

Y. Masuda, K. Oki, T. Igarashi, A. Watanabe, H. Iwaki, H. Takahashi, T. Nakano *JAPAN*
Unexpected corneal endothelial damage in FLACS

V. Melnyk *UKRAINE*
Ozurdex implantation: way of challenging case to the new surgical technique

Z. Mirza, A. Mearza *UK*
Combined cataract and iris prosthesis surgery in patient with previous prosthesis extrusion

V. Mittal, R. Mittal, P. Narang, N. Sahdev *INDIA*
Bowman-stromal inlay using IOL injector as an option in keratoconus management

A. Mohanta *INDIA*
B-Hex: a new kid on the horizon

F. Morkos *EGYPT*
Vision rescue in an eye scheduled for evisceration

A. Mukherjee, R. Rao, C. Kalamkar, B. Patel *INDIA*
Technique modification for left-handed surgeons performing manual small-incision cataract surgery: it's different

R. Mukhija, N. Lomi, S. Nayak, R. Tandon *INDIA*
Cionni ring for capsular bag fixation and iridodialysis repair: one-for-two approach

K. Naderi, K. Fotis, N. Karia *UK*
Fun and games with scleral-fixated intraocular lenses

P. Nagvekar, S. Haldipurkar, V. Shetty, Z. Khatib, R. Vaishnav *INDIA*
Lessons learnt as a beginner in phacoemulsification

P. Narang *INDIA*
Urrets-Zavalía syndrome

P. Narang, V. Mittal, R. Mittal *INDIA*
DSEK to the rescue after ICL implantation and toxic anterior segment shock syndrome (TASS) leading to corneal decompensation

F. Nejat, K. Jadidi, N. Nabavi, M. Nejat, H. Aghamollaei, S. Adnanee *IRAN*
Plasma-assisted non-invasive surgery (PANIS method)

N. Nizamani, A. Khan *UK*
Novel capsulorhexis technique using 30-gauge needle in fibrosed anterior capsule

J. Novak *CZECH REPUBLIC*
Secondary cataract prevention: a combi-method

M. Obukhova *UKRAINE*
Cataract in art

VIDEO COMPETITION

R. Om Parkash, S. Mahajan, T. Om Parkash *INDIA*

Calibrated side-port apparatus in phacoemulsification

T. Om Parkash, A. Khanna, S. Mahajan, R. Om Parkash *INDIA*

Outcome of pupillary zone sparing partial corneal epithelium debridement for collagen cross-linking (C3R) in keratoconus

C. Orea Ortega *MEXICO*

Management of traumatic cataract in paediatric age

R. Osher *USA*

The zonular challenge: history and evolution

T. Page *USA*

Make the turn without the burn: a critical analysis of CTR insertion and a novel injector system to reduce CTR complications

D. Pal *INDIA*

Intraoperative miosis: ring to the rescue

A. Parafita Fernandez, M. Teus, E. Arranz-Marquez, G. Bolivar *SPAIN*

Nanophthalmos: dealing with sclerectomies

A. Parafita Fernandez, M. Teus, M. Garcia-Gonzalez, J. Gros-Otero, R. Cañones-Zafra *SPAIN*

Nuclear lift: feeding the phaco tip

A. Pashtaev, K. Kuzmichev *RUSSIA*

A variety of surgical tactics for treating patients with pre-existing anterior-chamber IOL implant and secondary endothelial dystrophy of the cornea

P. Patel, R. Shetty, G. Kundu *INDIA*

Algorithm for making primary topography-guided LASIK work

A. Perez-Arteaga *MEXICO*

Biaxial phacoemulsification with three instruments after capsulorhexis

S. Pirhadi, K. Jadidi *IRAN*

The role of anterior segment OCT in assessment and management of patients with history of cataract and refractive surgery

M. Rajan, S. Mohan *INDIA*

Bilateral simultaneous cataract surgery by bilateral simultaneous cataract surgeons

P. Raman *MALAYSIA*

Nucleofractis by lamellar separation: peeling the layers

R. Rao, C. Kalamkar, A. Mukherjee, B. Patel, S. Bansod *INDIA*

Scleral tunnel demarcation in manual small-incision cataract surgery using trypan blue dye: a novel technique

N. Ray *INDIA*

Rock hard? Four-quadrant impale and chop technique

M. Rękas, W. Dyda, A. Kicińska, M. Gawrońska-Cedro *POLAND*

Vitreous tap in the management of positive posterior pressure

J. Reyes Torres, F. Duch Mestres, M. Martí Julia, R. Escude Blasi *SPAIN*

Let's cut to the chase: if suction is lost, choose wait-and-see approach

M. Roca Cabau, S. Noval, J. Peralta, I. Mogollon Giralt, L. Sanjuan Riera *SPAIN*

Different types of anterior capsulorhexis in paediatric cataract surgery

J. Roera, C. Rodriguez *ARGENTINA*

How do we mark the eye for a successful toric IOL alignment in just one step

M. Rubio Caso, A. Alshamrani *SAUDI ARABIA*

Vertical non-stop phaco chop: step-by-step

A. Saini, A. Jurangal, G. Gupta, A. Jain *INDIA*

Technique of aspiration of liquefied cortex during phacoemulsification in phacomorphic glaucoma

J. Sarkar *INDIA*

From missile-like injury to zero cylinder

J. Sarkar *INDIA*

Melted by molten metal.... but can be salvaged

N. Sau, A. Gupta, R. Sau, A. Sil *INDIA*

Don't pull something from the crowd.... Jamais

H. Scarfone *ARGENTINA*

Soft eye phacoemulsification technique

L. Senarath *SRI LANKA*

Goodbye! Argentinian flag sign in phacoemulsification

A. Shama, Z. Hassanin *EGYPT*

BSS stream hydrodissection

R. Shukla *INDIA*

Near-perfect capsulorhexis without femtosecond laser

A. Silvester, A. Zafar, A. Pitalia *UK*

Endophthalmitis treatment made simple

M. Soleimani *IRAN*

When a descemetocoele rescues two eyes

K. Sriprakash, S. Ganesh, S. Brar *INDIA*

Vacuum rhexis to the rescue in PCR

B. Stamenkovic, A. Bajic, V. Jaksic, B. Vukadinovic, Z. Zikic, U. Tomasevic, G. Damljanovic *SERBIA*

The double-needle technique for flanged intrascleral posterior chamber intraocular lens fixation

E. Stangogianni Druya, C. Stangogianni *GREECE*

Intraoperative suprachoroidal haemorrhage during phacoemulsification: nanophthalmic eyes and scleroderma

H. Suzuki, T. Igarashi, T. Kunishige, H. Takahashi *JAPAN*

Creation and evaluation of complication models using slit side view cataract surgery

N. Tananuvat, S. Tansanguan, S. Chokesuwattanaskul *THAILAND*

Atypical iris cyst following trauma and cataract surgery masquerading as iris tumour

A. Tatham, F. Ruefer *UK*

iStent inject: tips and tricks

S. Tekawade *INDIA*

Phaco slice: an innovative technique for hard cataracts

M. Teus, A. Parafita, E. Arranz-Marquez, A. Katsanos, M. Garcia-Gonzalez *SPAIN*

XEN implant: subconjunctival forced hydrodissection

D. Townsend, P. Lo, S. Makuloluwe *UK*

Operating on the unknown: managing dynamic intraoperative challenges

B. Trindade, F. Trindade, C. Trindade *BRAZIL*

Enhancing the pinhole experience

A. Tzamalīs, R. Vinciguerra, V. Romano, E. Arbabi, G. Wojcik, N. Ziakas, S. Kaye *GREECE*

A quick and safe method to harvest DMEK grafts for both inexperienced and senior surgeons: the yogurt technique

O. Unguryanov, A. Kozukhov, T. Fadeikina *RUSSIA*

Using retention sutures for fixation subluxation block IOL and capsular bag

H. Uy *THE PHILIPPINES*

Femtosecond cataract surgery in a small pupil and dense cataract

V. Vargas Fragoso, J. Alió *SPAIN*

Surgical technique of phakic intraocular lens bilensectomy

S. Vasavada, S. Srivastava, V. Vasavada, A. Vasavada, V. Vasavada, D. Agarwal *INDIA*

Posture perfect: ergonomics for the ophthalmic surgeon

A. Vasilyev, A. Egorova *RUSSIA*

Method of fibrotic membrane removal from posterior capsule during surgery of congenital paediatric cataract

N. Voulgari, D. Tabibian, G. Kontadakis,**G. Kymionis** *SWITZERLAND*

The Smiley keratoplasty: combined corneal wedge resection and corneal cross-linking for pellucid marginal degeneration

X. Wang, J. Dong, L. Jiang, S. Zhang, B. Sun *CHINA*

Never gild the lily: a lesson from an operation

Z. Yap, S. Perera *SINGAPORE*

Scleral fixation of IOL with a capsular tension segment (CTS) via a Hoffman pocket in a subluxed lens with 6 clock hours of zonulysis

A. Zahran *EGYPT*

Phaco, PCIOL and widening of fibrosed previous femto-assisted relaxing incisions, then astigmatic toric sutures at the flat meridian

L. Zameer, R. Shetty, A. Braganza, S. Bhatnagar,**N. Israni** *INDIA*

Optimising phaco training using validated scoring systems

M. Ziaei *UK*

Descemet's membrane (DM) macro-perforation: the curse of the type-II bubble



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Online CME accredited interactive courses
- ESCRS On Demand
Online library of presentations from ESCRS Congresses
- EUREQUO
Registry of quality outcomes for cataract & refractive surgery
- Subscription to Journal of Cataract & Refractive Surgery
- FREE 5 year membership for trainees

Meet us at the ESCRS Resource Centre on Level 7.3





Video Library

VIDEO LIBRARY

Videos can be viewed on the terminals located in the Poster Village

A. Alsharif *SAUDI ARABIA*

Alsharif three-piece IOL haptic injector

A. Balamoun *EGYPT*

Can this be real? Unbelievable surprise

A. Barsam *UK*

Mature cataract, weak zonules, small pupil, shallow anterior chamber and poor view

H. Cheema, H. Bhutto, S. Goel, M. Edwards, M. Reynor *UK*

Comparison of manual no-vacuum, manual vacuum-assisted, and femtosecond laser tunnelling techniques for Keraring implantation

H. Cheema, H. Bhutto, S. Goel *UK*

Video demonstration of using an intraocular contact lens (ICL) in post-corneal graft (PKP) patient for visual rehabilitation

J. de Jesus, I. Martins de Almeida, R. Staudt-Geraldes,

R. Laiginhas, M. Matias, G. Serafim *PORTUGAL*

Aniridia eye implants: the iris prosthetic system innovation

A. Deshpande *INDIA*

In-the-bag IOL implantation without viscoelastic

A. Deshpande *INDIA*

To demonstrate capsulorhexis technique in challenging situations

U. Devgan *USA*

A novel-design dual-optic curvature-changing presbyopic IOL

P. Escribano Lopez, G. Garrido Ceca, S. Porto Castro,

P. Marticorena Alvarez, D. Celdran Vivancos,

A. Jimenez Ortiz *SPAIN*

Change your old IOL for a new one!

U. Gadgil, H. Metha *INDIA*

Phacoemulsification in a case of corneal opacity and posterior polar cataract: a double whammy

M. Garcia-Mendieta, S. Sanz, J. Lillo *SPAIN*

Surgical bleb revision for late-onset non-penetrating deep sclerectomy (NPDS) failure with Ologen® collagen matrix implant

P. Gireesh, A. Khadija, R. Venkatesh, F. Mouttappa *INDIA*

A new angle in phaco cracking

S. Goel, S. Mukherjee *INDIA*

Managing the loose lens

S. Goel, S. Mukherjee, M. Goel *INDIA*

Tips and tricks for a successful ICL journey

A. Issa *IRAQ*

Daredevil play with the posterior capsule

A. Kanellopoulos *GREECE*

Management of progressive KCN with partial topo-guided PRK combined with refractive customised CXL: a novel technique – the enhanced Athens protocol

A. Liaska, T. Pallantzas, E. Makri, D. Mitsiou, S. Stamelou,

K. Andrianopoulou *GREECE*

Manual capsulorhexis techniques in special cataract cases

M. Mahdy, M. Eid *EGYPT*

Phacoemulsification in cases with pseudoexfoliation without nuclear rotation

S. Martin Nalda, R. Martin Pujol, F. Romero Cancino,

S. Banderas Garcia, J. Puig Galy, L. Bisbe Lopez *SPAIN*

Scleral patch, amniotic membrane and conjunctival graft to repair Boston keratoprosthesis extrusion

L. Monje Fernandez, A. Mateos Hernandez,

F. Costales Meir, I. Garzo Garcia, J. Sanchez Cañizal,

M. Cuesta Iasso, E. Pertejo Fernandez *SPAIN*

Safe cortex aspiration when fundus reflex is not present

T. Morais Sarmiento, R. Figueiredo, A. Candeias,

A. Rebelo *PORTUGAL*

A fleeing yellow submarine: XEN45® implant anterior chamber escape and repositioning

F. Morkos *EGYPT*

Do not leave nuclear fragments behind

P. Ntonti, G. Sidiropoulos, T. Panakleridou,

E. Koutsianou, E. Fadel *GREECE*

Replacement of a perforated corneal graft

D. Ortiz Vaquerizas *SPAIN*

Triple procedure: when all went well until the deepening of general anesthesia is insufficient

O. Owaidhah *SAUDI ARABIA*

Intraluminal suture in over-filtering AGV

O. Owaidhah *SAUDI ARABIA*

Intraocular trimming of glaucoma tube

A. Ozcan *TURKEY*

Management of dislocated intraocular lens in a patient with a history of complicated cataract surgery

M. Perez Gancedo, M. Doblado Serrano, C. Ramírez Fe,

R. Jiménez Escribano *SPAIN*

Subluxation of an Artisan Aphakia intraocular lens (AA IOL) from posterior fixation: how we dealt with it

P. Raman *MALAYSIA*

Four-point fixation of sulcus IOL using Hoffman pocket

G. Santaella Serrano, D. Rootman, T. Trinh *CANADA*

Pre-Descemet's endothelial keratoplasty (PDEK) graft preparation challenges: how to get that perfect PDEK

A. Silvester, A. Zafar, A. Pitalia *UK*

A simple guide to endophthalmitis treatment

M. Soleimani *IRAN*

Artificial-iris implantation with IOL-complex capture: sutureless technique

K. Stonecipher, F. Price Jr., M. Moshifar *USA*

LIKE (lenticular intrastromal keratoplasty): the US experience

S. Wass, G. Albrektsen, M. Tjåland Ødegård, M. Sand,

D. Austeng *NORWAY*

Eye pledged procedure

C. Yoon, Y. Jang, M. Kim *SOUTH KOREA*

Pearls to overcome challenging Descemet's membrane endothelial keratoplasty (DMEK) in Asian eyes

The background of the slide features a large, abstract geometric design. It consists of several overlapping triangles in shades of purple and teal. A dark purple triangle is the central focus, with a teal triangle overlapping it from the top right. The overall effect is a modern, professional look.

ESONT

European Society of
Ophthalmic Nurses
& Technicians

ESONT MEETING

SATURDAY 14 SEPTEMBER

10.30 – 11.00

POSTER SESSION

Poster Village: Pod 2

Facilitators: **M. Acebal** *SPAIN*
L. Tomlin *UK*

- 10.30 **I. Rodriguez-Perez** *SPAIN*
Early retreatment after laser in situ keratomileusis (LASIK): a comparative study of mechanical microkeratome vs femtosecond laser
- 10.35 **C. Bouza** *SPAIN*
Measurement technique based on optical coherence tomography to determine the scotopic pupillary size before a posterior chamber phakic lens surgery
- 10.40 **S. Flodin** *SWEDEN*
Using the Adult Strabismus-20 (AS-20) questionnaire to assess health-related quality of life (HRQoL) in patients with cyclodeviation
- 10.45 **S. Ferrandes** *ITALY*
The relevance of dry eye disease (DED) in preoperative examinations and its impact on the surgical outcome
- 10.50 **U. Bassi** *ITALY*
Artificial intelligence (AI) in diabetic retinopathy screening
- 10.55 **G. Laucirica Saez** *SPAIN*
Measurement of real time intraocular pressure increase during LASIK flap creation using four different femtosecond laser platforms
- 11.00 End of session

SUNDAY 15 SEPTEMBER

10.30 – 11.30

INTERNATIONAL FORUM

Special Cases with Contact Lenses

South 5

Chairpersons: **N. Astyrakakis** *GREECE*
M. Cargnoni *ITALY*

- 10.30 **N. Astyrakakis** *GREECE*
Fitting special lenses
- 10.45 **C. Giordano** *ITALY*
Special cases corrected with contact lenses
- 11.15 Discussion
- 11.30 End of session

14.30 – 16.00

ESONT SYMPOSIUM

The Best Practices in Clinics and Operating Rooms

South 5

Chairpersons: **M. Acebal** *SPAIN*
M. Cargnoni *ITALY*

- 14.30 **D. Monnet** *FRANCE*
How to optimise toric IOL performance: tools and methods
- 14.45 **C. Bouza** *SPAIN*
Tips to improve the efficiency at an ophthalmic hospital
- 15.00 **A. de La Llama** *THE NETHERLANDS*
Analyzing the outcomes after the surgery
- 15.15 Discussion
- 15.30 **M. Cargnoni** *ITALY*
Technician support during femto cataract surgery
- 15.45 **C. Bellucci** *ITALY*
Handling fluidics
- 16.00 End of session

MONDAY 16 SEPTEMBER

11.00 – 12.30

ESONT SYMPOSIUM

Complications of Cataract Surgery: A Multidisciplinary Team Approach

South 1

Chairpersons: **S. Albrecht** *SWEDEN*
L. Tomlin *UK*

- 11.00 **S. Albrecht** *SWEDEN (OPHTHALMIC NURSE)*
A nurse's approach to complications of cataract surgery
- 11.15 **M. Langhals** *SWEDEN (OPTOMETRIST)*
An optometrist's approach to complications and refractive surprises post cataract surgery
- 11.45 **L. Tomlin** *UK (ORTHOPTIST)*
Orthoptic problems in the post op cataract patient
- 12.00 **N. Reus** *THE NETHERLANDS (OPHTHALMOLOGIST)*
How ophthalmologists approach post op cataract complications and use the multi-disciplinary team
- 12.15 **M. Karas** *UK (ECLO, EYE CLINIC LIAISON OFFICER)*
The role of an ECLO and low vision services in patients with poor vision post cataract surgery
- 12.30 End of session

SATELLITE MEETING

A satellite meeting for ESONT delegates will take place at lunchtime on Monday. The topic covers partnering to drive efficiency in your practice. See page 171 for details.

ESONT POSTER COMPETITION

Terminals are located in the Poster Village

The winner of the 2019 Poster Competition will be announced at the beginning of the ESONT Symposium on Monday 17 September at 11.00 in South 1.

G. Binny *UK*

The role of the specialist nurse and the treatment of long-term uveitis with adalimumab

E. Fedosova *RUSSIA*

Prevention of postoperative complications

L. Havstam Johansson *SWEDEN*

Vision-related quality of life and visual function in a 70 year old Swedish population: aspects of experiencing vision loss

T. Lagator *CROATIA*

Attitudes towards experiencing physical contact with nurses in ophthalmic healthcare

J. Sanchez-Pina *SPAIN*

Aphakia correction with prepupillary fixated iris claw lens: 24-month results

J. Sanchez-Pina *SPAIN*

First results after combined phaco-iStent inject implant

ESONT ANNUAL GALA DINNER

Sunday 15 September 20.00

Cost per person: €25 (plus VAT)

Paradis Latin
28 rue de Cardinal Lemoine
75005 Paris

Meet with your international friends and colleagues at the annual ESONT gala evening to experience the Paradis Latin and a famous Parisian cabaret called L'Oiseau Paradis. Enjoy a lively show with great cuisine and service of the highest quality. The Paradis Latin is located in the heart of Paris – just a stone's throw from Notre Dame and the Panthéon.

Ticket includes: welcome drink, ticket to L'Oiseau Paradis show and a 3 course dinner served with wine.

PLEASE NOTE: Tickets must be purchased in advance of the event from the registration desk in the congress centre

ESONT COURSES & WETLABS

An Introduction to Refractive Surgery (Part 1 + 2)

In this course participants will have the opportunity to look at the current techniques used in refractive surgery:

- Topography: the course will contain both a theoretical aspect and hands-on practice where participants will learn to carry out examinations.
- Critical points about patient selection and decision-making concerning a photorefractive candidate, and evaluating quality of vision following refractive surgery.
- An overview of microkeratomes will be given, along with hands-on practice where the participants can look at assembly and tips for a safe procedure.
- Postoperative complications, emergencies and re-operations will also be covered.

Part 1 – Theory:

- Current techniques
- Patient selection and decision making
- LASIK and surface procedures
- Corneal cross-linking technique
- Lasers in refractive surgery

Part 2 – Practice:

- Topography
- Overview of microkeratomes

Please note: All those attending Part 2 must also participate in Part 1 of the course. However, it is possible to attend Part 1 without attending Part 2.

A Visual Fields Masterclass

This course will demonstrate how a visual field test works and explore the future of visual field testing.

It will include instruction in reading visual fields, as well as case discussions, top tips and tricks, and solutions for common problems.

Biometry and IOL Power Calculations for Refractive Cataract Surgery

With ever-increasing patient expectations and the advent of advanced technology intraocular lenses, cataract surgery has moved into the realm of refractive surgery, demanding that we continuously evaluate the accuracy of performing preoperative measurements and IOL calculations. With the complexity of some patients such as high myopes and those who prefer toric lenses or have had prior refractive surgery, this topic is more relevant than ever before. This course will review the principles of lens constant personalisation, formula selection, keratometry for both monofocal and toric implants, standardisation of axial length measurements with both optical and ultrasound techniques, and the most current methods for post-refractive surgery calculations. The course will conclude with a hands-on session of both optical and immersion biometry with equipment provided by the following manufacturers: Haag-Streit, Keeler, Quantel Medical, Sonomed Escalon and Zeiss.

B-scan Ultrasound of the Anterior and Posterior Segments

B-scan ultrasound is an invaluable tool for differentiating a wide range of ocular disorders. This course will discuss the diagnostic capabilities of both posterior segment B-scan and anterior segment UBM with optimal examination techniques. The principles of thorough B-scan screening of the posterior segment will be reviewed in addition to case presentations illustrating the differentiation of pathology in the iris, ciliary body, vitreous, retina, choroid, sclera and optic nerve, as well as the use of diagnostic A-scan to aid in diagnoses. The course will conclude with a hands-on session of both posterior segment and UBM techniques with equipment provided by the following manufacturers: Keeler, Quantel Medical and Sonomed Escalon.

Infection Control

The transition of healthcare delivery from hospitals to ambulatory care settings, along with ongoing outbreaks and patient notification events, have demonstrated the need for greater understanding and implementation of basic infection prevention guidance. Healthcare personnel have the potential for exposure to patients and/or infectious materials, including bodily substances, contaminated medical supplies and equipment, contaminated environmental surfaces, and contaminated air.

In this course we will review:

- Basic microbiology
- Concepts of infection control
- Methods used to prevent growth and spread of microorganisms:
 - Antiseptics/cleaning
 - Disinfection
 - Sterilisation
- Guidelines for disinfection and sterilisation

Optical Coherence Tomography for Ophthalmic Professionals

Optical coherence tomography is a technique of imaging the posterior pole using interferometry; a process analogous to ultrasound. OCT allows a tomography of the retina and its different layers with an axial resolution of 10 microns. Its final image is a false-colour image representing different layers, from RPE to the RNFL layer. This permits the exact localisation of the pathology and an evaluation of its volume. OCT is an advantageous method because it is not invasive and in many cases pupil dilatation is not necessary. Good results are obtained with only 3mm dilatation. This course shows the basis of the technique, its advantages and applications, and some results in different cases of retina pathologies. Participants will have hands-on practice with the equipment.

Phaco for Ophthalmic Professionals

This hands-on wetlab course will cover wound construction, capsulorhexis, phacoemulsification, I/A and IOL implantation.

Slit Lamps for Ophthalmic Professionals

The slit lamp is essentially a binocular microscope and is a way of combining magnification with illumination. A few basic rules can make the equipment easier to use. This course welcomes both beginners and those who have a greater understanding of the area, and will provide an informative demonstration of the microscopic slit lamp.

COURSE SCHEDULE

Saturday 14 September

E01	08.30 – 12.30	Biometry and IOL power calculations for refractive cataract surgery	Free	West 7
E02	10.00 – 12.00	An introduction to refractive surgery (Part 1 – Theory)	Free	West 6
E06	14.30 – 18.30	B-Scan ultrasound of the anterior and posterior segments	Free	West 7
E07	14.30 – 16.00	Infection control	Free	West 8

Sunday 15 September

E09	10.30 – 12.30	A visual fields masterclass	Free	West 7
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Monday 16 September

E10	09.00 – 11.00	Optical coherence tomography for ophthalmic professionals	Free	South 1
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WETLAB SCHEDULE

Saturday 14 September

E03	11.00 – 13.30	Phaco for ophthalmic professionals	€50	East 1
E04	13.00 – 15.00	An introduction to refractive surgery (Part 2 – Practical)	€50	East 3
E05	14.00 – 16.30	Phaco for ophthalmic professionals	€50	East 1

Sunday 15 September

E08	09.30 – 11.30	Slit lamps for ophthalmic professionals	€50	East 4
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Faculty

	Course Number		Course Number
M. Acebal <i>SPAIN</i>	E07	I. Pallikaris <i>GREECE</i>	E02
N. Astyrakakis <i>GREECE</i>	E02, E04	S. Panagopoulou <i>GREECE</i>	E04
V. Diakonis <i>GREECE</i>	E02	D. Portaliou <i>GREECE</i>	E02
P. Doumanidis <i>GREECE</i>	E02	A. Santos <i>PORTUGAL</i>	E10
M. Kynigopoulos <i>SWITZERLAND</i>	E03, E05	L. Tomlin <i>UK</i>	E09
A. Lee <i>UK</i>	E08	I. Vastardis <i>SWITZERLAND</i>	E03, E05
D. Liakopoulos <i>GREECE</i>	E02	R. Waldron <i>USA</i>	E01, E06
C. Lledo <i>SPAIN</i>	E07		

VISIT THE EXHIBITION

Don't miss the opportunity to visit over 300 companies in the exhibition. For a list of companies and a map of the exhibition go to page 173

24th ESCRS Winter Meeting

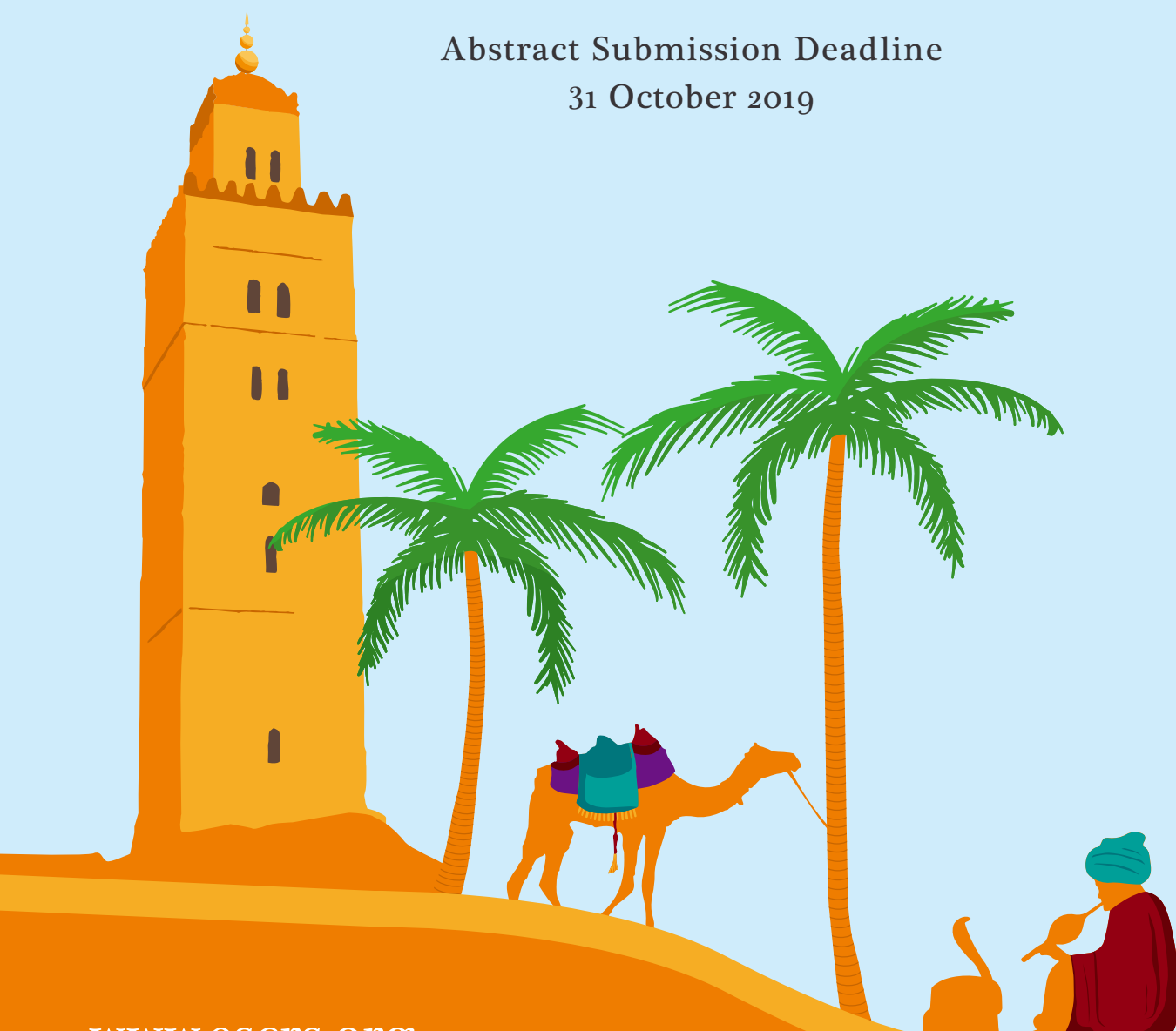
MARRAKECH

In conjunction with SAMIR (Moroccan Society of Implant & Refractive Surgery)

21 – 23 FEBRUARY 2020

Mövenpick Hotel Mansour Eddahbi
& Palais des Congrès, Marrakech, Morocco

Abstract Submission Deadline
31 October 2019



The background features two overlapping teal shapes: a circle on the left and a triangle on the right. The text is centered over the intersection of these shapes.

General Information & Satellite Symposia

GENERAL INFORMATION

Venue

Pavilion 7, Paris Expo, Porte de Versailles
1 Place de la Porte de Versailles
75015 Paris

Metro: Porte de Versailles, Line 12

Currency

The official currency of the Congress is the Euro.

Insurance

Delegates are advised to take out travel insurance to cover medical expenses, accidents, loss, etc. No responsibility will be accepted by the Congress Organisers.

Opening Hours

Registration

Location: Level 7.1

Thursday 12 September	14.00 – 19.00
Friday 13 September	07.00 – 18.30
Saturday 14 September	07.00 – 18.30
Sunday 15 September	07.00 – 18.30
Monday 16 September	07.30 – 18.30
Tuesday 17 September	07.30 – 18.30
Wednesday 18 September	08.00 – 13.30

Speaker Check-In Room

Location: Level 7.3

Thursday 12 September	14.00 – 19.00
Friday 13 September	07.00 – 18.00
Saturday 14 September	07.00 – 18.00
Sunday 15 September	07.00 – 18.00
Monday 16 September	07.00 – 18.00
Tuesday 17 September	07.00 – 18.00
Wednesday 18 September	07.30 – 11.00

Exhibition

Location: Level 7.2

Saturday 14 September	09.00 – 17.00
Sunday 15 September	09.00 – 17.00
Monday 16 September	09.00 – 17.00
Tuesday 17 September	09.00 – 17.00

ATM

Close to Pavilions 3 & 5

Cafés and Restaurants

Refer to Congress Centre Map

Cloakroom

Location: Level 7.1

CME Credits

This Congress has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with **35 European CME Credits** (ECMEC®s). Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

Through an agreement between the Union Européenne des Médecins Spécialistes and the American Medical Association, physicians may convert EACCME® credits to an equivalent number of AMA PRA Category 1 Credits™. Information on the process to convert EACCME® credit to AMA credit can be found at www.ama-assn.org/education/earn-credit-participation-international-activities.

Live educational activities, occurring outside of Canada, recognised by the UEMS-EACCME® for ECMEC®s are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada.

Each participant can only receive the number of credits he/she is entitled to according to his/her actual participation at the event once he/she has completed the feedback form for each session.

The EACCME® awards ECMEC®s on the basis of 1 ECMEC® for one hour of CME with a maximum of 8 ECMEC®s per day.

Each delegate should contact his/her national CME body directly in order to claim their credits for the Congress.

Device Charging Stations

Various Locations: Levels 7.2 & 7.3

EBO Accredited Courses

- Refractive Surgery Didactic Course
- Workshop on Visual Optics
- Instructional Courses: 01, 15, 32, 33, 37, 60, 73, 95, 106, 113, 117

The European Board of Ophthalmology Diploma (EBOD) examination is a test of excellence in ophthalmology. The successful candidate may add the title 'Fellow of the European Board of Ophthalmology (FEBO)' after his/her name. Attendance at the above courses may be beneficial to those planning on taking the EBOD examination.

For further information on the EBO and EBOD please go to www.ebo-online.org

ESCRS Annual General Meeting

Location: West 1

Tuesday 17 September, 13.15

Open to ESCRS Members only.

ESCRS Members' Lounge

Location: Level 7.3

Open to all ESCRS members

- Meet, connect and network with other members
- Have your profile photo taken by a professional photographer
- Complimentary tea and coffee

Saturday 14 September	08.30 – 17.00
Sunday 15 September	08.30 – 17.00
Monday 16 September	08.30 – 17.00
Tuesday 17 September	08.30 – 17.00

ESCRS Resource Centre

Location: Level 7.3

Visit the ESCRS Resource Centre for information about membership, ESCRS iLearn, ESCRS On Demand and EUREQUO, and to find out more about new online education initiatives being introduced by the ESCRS. Complimentary copies of EuroTimes and the Journal of Cataract & Refractive Surgery will be available.

EuroTimes John Henahan Prize 2019

John Henahan was the visionary editor and guiding light of EuroTimes from 1996 to 2001 and his work inspired a generation of ESCRS members and journalists.

The EuroTimes John Henahan Prize is a writing competition open to ophthalmologists who are members of the ESCRS and who are under 40. The topic for this year was 'How to Balance Ophthalmology and Family Life'.

The prize will be presented during the Video Awards Session on Sunday 15 September, 14.00 – 16.00 in North 3.

Join the Conversation in Paris

#ESCRS19

Stay connected to ESCRS during the congress by following us on



First Aid

Refer to Congress Centre Map

Kuoni Hotel Desk

Location: Registration Area, Level 7.1

Lost & Found Items

Please check at the Registration Desk on Level 7.1 for any lost items.

Multi-Faith Room

Location: Room 747, Level 7.4

ORBIS International Medal

The ORBIS International Medal will be awarded to the best Free Paper or Poster relating to the treatment and prevention of blindness in the developing world.

The winner of the medal will be announced during the ORBIS Symposium on Monday 16 September from 13.00 – 14.00 in West 7.

Wi-Fi

Wi-Fi is available free of charge throughout the congress centre.

Network: ESCRS19

Password: AerieEU19

SPONSORS

ESCRS would like to thank the following companies for their support:



LUNCH SYMPOSIUM

ESCRS 2019
PARIS

FEMTO LDV Z8
UNFOLD YOUR POSSIBILITIES

Saturday, September 14, 2019; 13.00 – 14.00h, Paris Convention Centre – Room South 4

Chairman:

Prof. Theo Seiler, Switzerland
15 years experience with Ziemer femtosecond lasers

Registration:

12:30 – 13:00h with lunch boxes

Faculty:

Dr. Allon Barsam, United Kingdom
Customised flap creation

Prof. Luis Izquierdo, Peru
Lenticule extraction – the Ziemer way

Prof. Soon Phaik Chee, Singapore
Management of complex Cataract cases with Z8

Prof. Rupert Menapace, Austria
Z8 arcuate incisions for low to moderate corneal
astigmatism: procedure and results

Prof. Jod Mehta, Singapore
Don't be so inflammatory

www.ziemergroup.com/escrs
www.femtoldv.com/youtube



Scan to add to
your calendar

The FEMTO LDV Z8 is CE marked and FDA cleared. For some countries, availability may be restricted due to regulatory requirements; please contact Ziemer for details.

WETLABS AVAILABLE
at booth #D146

EUROTIMES SATELLITE EDUCATION PROGRAMME

SATURDAY 14 SEPTEMBER

Lunchtime Symposia

13.00 – 14.00

Complex Cases, Simplified

South 1

Moderator: R. Osher *USA*

Sponsored by



Oculentis' Toolbox for Refractive Lens Surgery: 10 Years Mplus; FEMTIS & Zepto

West 4

Moderator: P. Versace *AUSTRALIA*

Sponsored by



Unfold Your Possibilities

South 4

Moderator: T. Seiler *SWITZERLAND*

Sponsored by



Management of Glaucoma with Subthreshold Laser Therapy

West 5

Moderator: Y. Lachkar *FRANCE*

Sponsored by



Rethink Advanced Performance: All In Video

South 6

Moderator: J. Fernández *SPAIN*

Sponsored by



SATURDAY 14 SEPTEMBER

Lunchtime Symposia

13.00 – 14.00

New Developments using Scheimpflug Technology in Cataract and Refractive Surgery

South 3

Moderators: C. Roberts *USA*
M. Belin *USA*

Sponsored by



Mastering your Cataract Surgery Workflow with Next Level Technology

South 5

Moderator: P. Stalmans *BELGIUM*

Sponsored by



Applications for High Resolution Anterior Segment Imaging

West 8

Moderator: A. Kasper *GERMANY*

Sponsored by



Technological Breakthrough by PhysiOL: Ready to be Amazed Again?

West 1

Moderator: D. Gatinel *FRANCE*

Sponsored by



SATURDAY 14 SEPTEMBER

Lunchtime Symposia

13.00 – 14.00

Complex, Unique and Exquisite Anterior Segment Cases and New Technology for Improved Outcomes in Cataract Surgery

West 6

Moderator: G. Savini *ITALY*

Sponsored by  HAAG-STREIT
DIAGNOSTICS

Synergizing the Best of Two Worlds in Presbyopia-correcting IOL Technologies

Free Paper Forum Room

Moderator: F. Carones *ITALY*

Sponsored  J. Johnson VISION

Halo and Glare? Not a Problem Anymore: The World's First and Only Sinusoidal Trifocal IOL, Acriva Trinova

South 2

Moderator: J. Blanckaert *BELGIUM*

Sponsored by  VSY
BIOTECHNOLOGY

SATURDAY 14 SEPTEMBER

Lunchtime Symposia

13.00 – 14.00



Ocular Surface Disease Diagnosis and Management: Special Focus on the Lipid Layer

North 4

Moderators: B. Cochener-Lamard *FRANCE*
J. Güell *SPAIN*

Independent medical education supported by:



Gold



Silver



Bronze



Bronze

SATURDAY 14 SEPTEMBER

Evening Symposia

18.00 – 19.30

Introducing iStent Inject W: The Trabecular Micro-Bypass Stent for the Cataract Surgeon

South 3

Moderator: T. Samuelson *USA*

Sponsored by  GLAUKOS®
Transforming Glaucoma Therapy

Beyond Barriers: Boost Epi-On CXL with Oxygen

West 6

Moderator: R. Rajpal *USA*

Sponsored by  avedro

EUROTIMES SATELLITE EDUCATION PROGRAMME

SUNDAY 15 SEPTEMBER

Lunchtime Symposia

13.00 – 14.00

Progresses in Management in Ocular Surface and Cataract Surgery

South 5

Moderator: C. Grupcheva *BULGARIA*

Sponsored by  **Théa**
Driving innovation

Mastering Precision & Predictability: Biotech Premium IOLs & Challenging Cases

West 4

Moderators: B. Toygar *TURKEY*
S. Goel *INDIA*

Sponsored by  **biotech**

Rethinking Glaucoma Care with Non Incisional and Versatile MicroPulse Transscleral Cyclophotocoagulation

South 6

Moderator: Z. Khoueir *LEBANON*

Sponsored by  **IRIDEX**

Innovations in Glaucoma and Cataract

West 3

Moderator: S. Daya *UK*

Sponsored by  **NIDEK**

SUNDAY 15 SEPTEMBER

Lunchtime Symposia

13.00 – 14.00

Targeting Refractive Outcomes Precision: Beyond the Innovations

West 1

Moderator: F. Carones *ITALY*

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Moderator: A. Brézin *FRANCE*

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C. Bala *AUSTRALIA*

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R. Shetty *INDIA*

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ORBIS International Symposium: Eye Care for Refugees

West 7

Moderator: R. Walters *UK*

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SCHWIND Femtosecond Laser for Lenticule Extraction and Flap Creation

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South 2

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West 4

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R. Bellucci *ITALY*

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Presbyopia and Toric IOL Correction: Keys to Success with Multifocal and EDOF IOLs

North 4

Moderators: B. Cochener-Lamard *FRANCE*
O. Findl *AUSTRIA*

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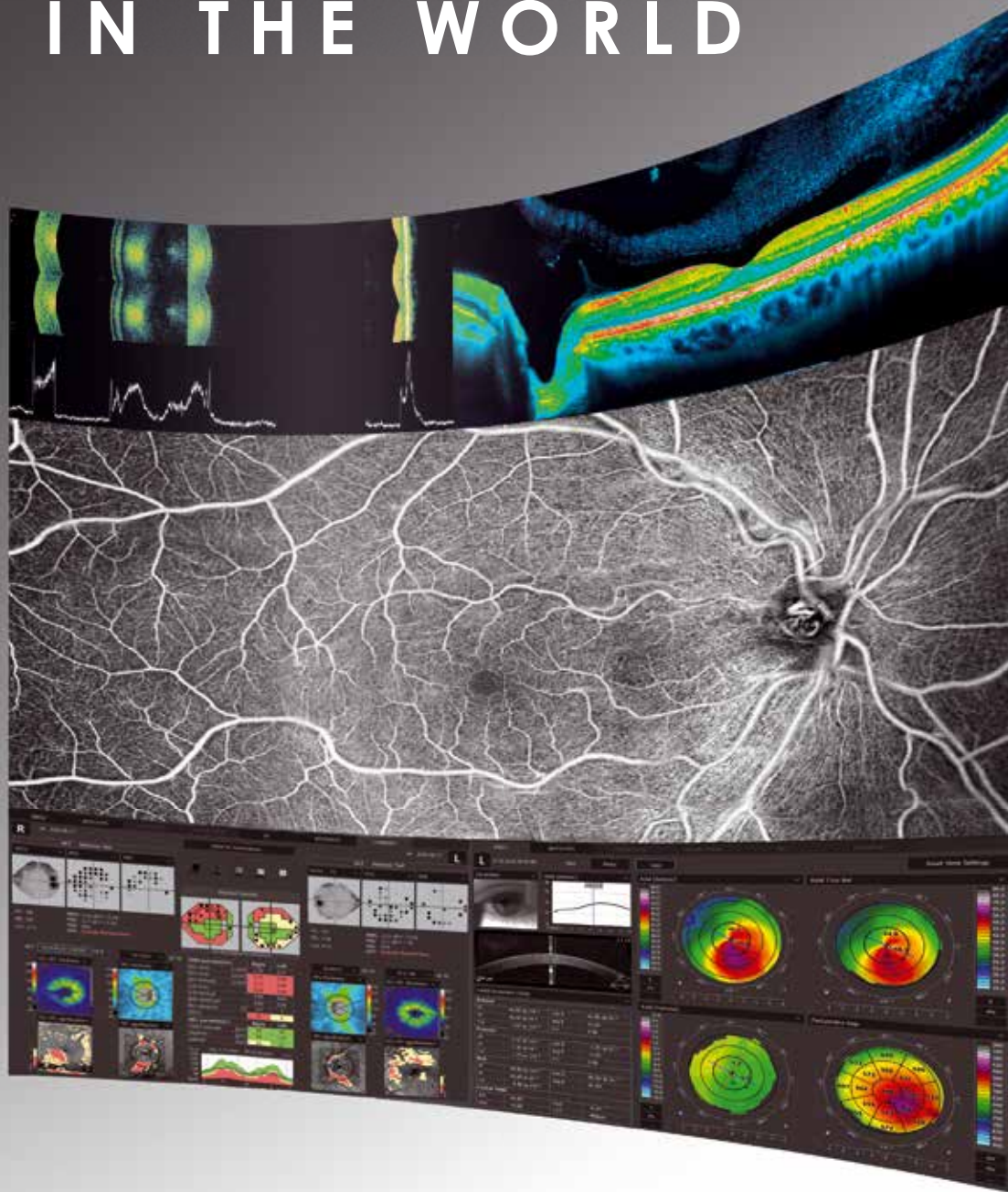
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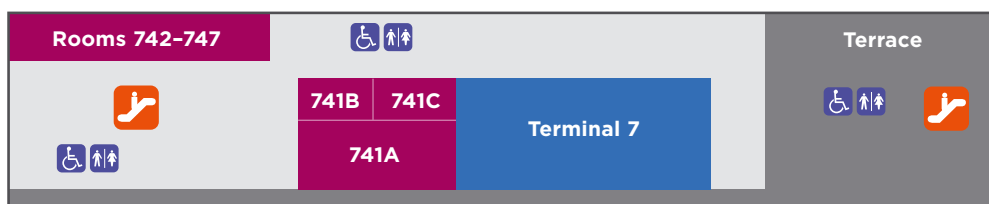
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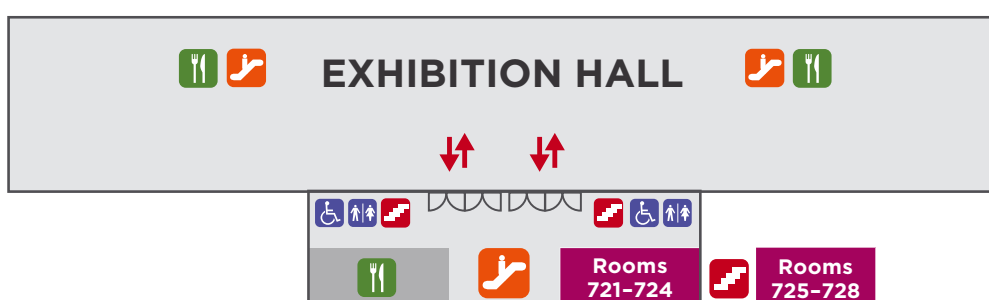
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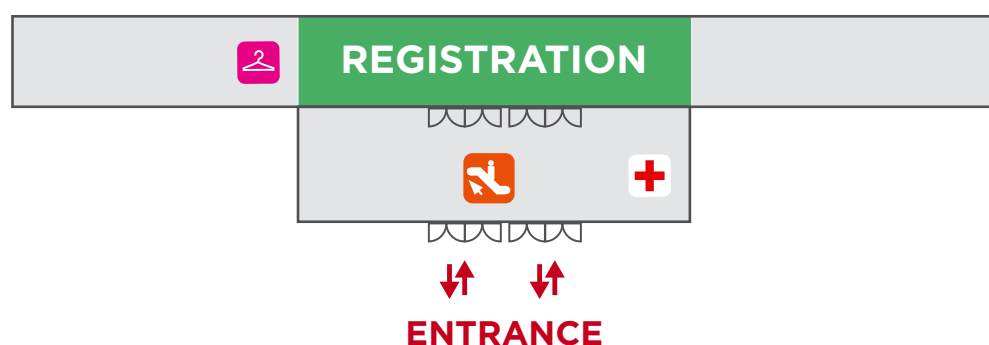
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EUROPEAN SOCIETY OF
CATARACT & REFRACTIVE
SURGEONS

37TH CONGRESS of the ESCRS

14-18 September
2019

Advanced Technologies Symposium

15 SEPT

TARGETING REFRACTIVE OUTCOMES PRECISION: BEYOND THE INNOVATIONS

Sunday, 15 September | 13.00 – 14.00

Moderator: Francesco Carones (Italy)

Venue: Pavilion 7, Paris Expo Porte de Versailles

Room: West 1

PROGRAM

- 13:00 – 13:15 | PanOptix®: how to maximize the benefits and visual outcomes in challenging cases – *Francesco Carones (Italy)*
- 13:15 – 13:30 | Integrated solutions with ORA™ Intraoperative Aberrometry for cataract refractive surgery challenges – *Joaquim Murta (Portugal)*
- 13:30 – 13:45 | The Next Era in Customized Laser Vision Correction – *Damien Gatinel (France)*
- 13:45 – 14:00 | Corneal enhancements with software upgrade ASCEND – *Bekir Sitki Aslan (Turkey)*

INFOCUS

15 SEPT

2 MINUTES TO ENHANCED O.R. EXPERIENCE AND PATIENT SELECTION! DEBATING THE TOPICS MOST IMPORTANT TO YOUR PRACTICE

Sunday, 15 September | 19.00 – 20.00

Pick-up time from conference venue: 18.00



PROGRAM

Enhanced OR experience

Co-moderator: *Saleh Al Messabi (United Arab Emirates)*

- Enhanced safety during phaco with Centurion® Active Sentry® – *Christer Johansson (Sweden) & Gabor Scharioth (Germany)*
- Enhanced intra-operative visualization with NGENUITY® and LuxOR™ Revalia™ – *Kjell Gunnar Gundersen (Norway)*
- Enhanced IOL material and control in IOL delivery with Clareon® AutonoMe® – *Rudy Nuijts (The Netherlands) & Kjell Gunnar Gundersen (Norway)*

Enhanced patient selection for PC IOL

Co-moderator: *Chandra Bala (Australia)*

- Increase treatment opportunities with PC IOLs through the new First-of-its-Kind Non-Diffractive Presbyopia Correcting IOL and AcrySof® IQ PanOptix® IOL – *Chandra Bala (Australia) & Ramon Ruiz Mesa (Spain)*

Moderator: *Antoine Brezin (France)*

Co-moderator: *Saleh Al Messabi (United Arab Emirates), Chandra Bala (Australia)*

Venue: *Palace Brongniart*

Address: *Place de la Bourse 75002 Paris*

Cataract Symposium (ESCRS and ESONT Meeting)

16 SEPT

PARTNERING TO DRIVE EFFICIENCY IN YOUR PRACTICE THROUGH ALCON SERVICES AND SOLUTIONS

Monday, 16 September | 13.00 – 14.00

Moderator: *Mercè Guarro (Spain)*

Venue: *Pavilion 7, Paris Expo Porte de Versailles*

Room: *South 3*

PROGRAM

- 13:00 – 13:15 | Optimize OR planning with the RFID Smart Cabinet solution – *Hadi Kjaerbo (Denmark)*
- 13:15 – 13:30 | Simplify the patient pathway during the cataract procedure – *Mercè Guarro (Spain)*
- 13:30 – 13:45 | Improve outcomes for your practice based on real world evidence data – *Paul Ursell (United Kingdom)*
- 13:45 – 14:00 | Leverage product solutions to increase operational room performance – *Margarita Acebal (Spain)*