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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
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 Explantation**
(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

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Time</th>
<th>Course</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room East 3</td>
<td>15.30 – 18.00</td>
<td>Intraocular and Transscleral Suturing*</td>
<td>V. Pfeifer <strong>SLOVENIA</strong>, E. Assia <strong>ITALY</strong></td>
</tr>
<tr>
<td>Room East 4</td>
<td>09.45 – 11.30</td>
<td>Basic Suturing Techniques</td>
<td>B. Frueh <strong>SWITZERLAND</strong></td>
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<tr>
<td></td>
<td>12.00 – 13.45</td>
<td>Basic Suturing Techniques</td>
<td>P. Schollmayer <strong>SLOVENIA</strong></td>
</tr>
<tr>
<td></td>
<td>14.15 – 16.00</td>
<td>Basic Suturing Techniques</td>
<td>R. Bellucci <strong>ITALY</strong></td>
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<td></td>
<td>16.30 – 18.15</td>
<td>Basic Suturing Techniques</td>
<td>C. Leydolt <strong>AUSTRIA</strong></td>
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<td>D. Schartmuller <strong>AUSTRIA</strong></td>
</tr>
<tr>
<td>Room East 5</td>
<td>12.30 – 14.15</td>
<td>Basic Suturing Techniques</td>
<td>T. Rudolph <strong>SWEDEN</strong>, C. Jansén <strong>SWEDEN</strong></td>
</tr>
<tr>
<td></td>
<td>14.45 – 16.30</td>
<td>Basic Suturing Techniques</td>
<td>D. Kook <strong>GERMANY</strong>, W. J. Mayer <strong>GERMANY</strong></td>
</tr>
<tr>
<td></td>
<td>17.00 – 18.45</td>
<td>Basic Suturing Techniques</td>
<td>R. Lapid-Gortzak <strong>THE NETHERLANDS</strong>, M. Dickman <strong>THE NETHERLANDS</strong></td>
</tr>
<tr>
<td>Room East 6</td>
<td>13.30 – 15.30</td>
<td>Intraocular and Transscleral Suturing*</td>
<td>P. Stodulka <strong>CZECH REPUBLIC</strong></td>
</tr>
<tr>
<td></td>
<td>16.45 – 18.45</td>
<td>Lens Expantation*</td>
<td>D. Hildebrand <strong>UK</strong>, R. Packard <strong>UK</strong></td>
</tr>
</tbody>
</table>

**Saturday 14 September**

**Sunday 15 September**

| Room East 1   | 08.00 – 10.00| Basic Phacoemulsification             | P. Schollmayer **SLOVENIA**                      |
|               | 10.30 – 12.30| Basic Phacoemulsification             | P. Stodulka **CZECH REPUBLIC**                   |
|               | 13.30 – 15.30| Iris Fixation Phakic IOL              | E. Pedrotti **ITALY**                           |
|               | 16.30 – 18.00| Basic Phacoemulsification             | N. Reus **THE NETHERLANDS**                     |
| Room East 2   | 08.30 – 10.30| Boston Keratoprosthesis (B-KPro)*     | A. Crnej **SLOVENIA**, M. Cortina **USA**, A. Cruzat **USA** |
|               | 11.00 – 13.00| Boston Keratoprosthesis (B-KPro)*     | A. Crnej **SLOVENIA**, M. Cortina **USA**, A. Cruzat **USA** |
|               | 13.30 – 15.30| DSEK*                                 | D. Calladine **UK**                             |
|               | 16.00 – 18.00| DMEK*                                 | L. Baydoun **GERMANY**, D. Dragnea **ROMANIA**, L. Ham **THE NETHERLANDS**, S. Ni Dhubghall **IRELAND**, J. Peraza-Nieves **SPAIN** |
| Room East 3   | 09.00 – 10.30| LASIK*                                | A. Stojanovic **NORWAY**                        |
|               | 11.00 – 12.30| LASIK*                                | P. Jirak **AUSTRIA**, V. Derhartunian **AUSTRIA** |
|               | 13.00 – 14.30| PRK, LASEK & Epi-LASIK*               | D. Epstein **SWITZERLAND**                      |
|               | 16.45 – 18.15| PRK, LASEK & Epi-LASIK*               | D. Epstein **SWITZERLAND**                      |
|               | 15.45 – 18.45| Modern MIGS Techniques Using Implants*| Z. Khoueir **LEBANON**, A. Tatham **UK**, A. Al Habash **SAUDI ARABIA** |

**Cost per course €100 or €150 (plus VAT)**

All courses are €100 (plus VAT) for trainees
<table>
<thead>
<tr>
<th>Course Number</th>
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</thead>
<tbody>
<tr>
<td>Room East 5</td>
<td>25</td>
<td>08.30 - 10.30</td>
<td>Corneal Cross-Linking Therapy</td>
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<tr>
<td></td>
<td>26</td>
<td>11.00 - 13.00</td>
<td>Corneal Cross-Linking Therapy</td>
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<tr>
<td></td>
<td>27</td>
<td>14.00 - 15.45</td>
<td>Basic Trauma Suturing Techniques</td>
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<tr>
<td></td>
<td>28</td>
<td>16.00 - 17.45</td>
<td>Basic Keratoplasty Suturing Techniques</td>
</tr>
<tr>
<td>Room East 6</td>
<td>29</td>
<td>09.00 - 11.00</td>
<td>DMEK*</td>
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<tr>
<td></td>
<td>30</td>
<td>12.45 - 14.45</td>
<td>Manual Small Incision Cataract Surgery</td>
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<tr>
<td></td>
<td>31</td>
<td>15.00 - 17.00</td>
<td>DSEK*</td>
</tr>
</tbody>
</table>

**Monday 16 September**

| Room East 1   | 32         | 10.30 - 12.30 | Astigmatism Management & Toric IOL               | R. Fernández-Buenaga **SPAIN** |
|               | 33         | 14.00 - 16.00 | Basic Phacoemulsification                        | J. Peraza-Nieves **SPAIN**, J. Torras Sanvicens **SPAIN** |
| Room East 2   | 35         | 08.00 - 10.00 | Glaucoma: Viscocanalostomy & Canoloplasty (Ab Externo & Ab Interno)* | V. Jasinskas **LITHUANIA** |
|               | 36         | 10.30 - 12.30 | Glaucoma: Viscocanalostomy & Canoloplasty (Ab Externo & Ab Interno)* | S. Ondrejka **GERMANY** |
|               | 37         | 13.00 - 16.00 | Modern MIGS Techniques Not Using Implants*        | Z. Khoueir **LEBANON**, I. Singh **USA**, S. Dorairaj **USA** |
| Room East 3   | 39         | 08.30 - 10.00 | PRK, LASEK & Epi-LASIK                           | D. Epstein **SWITZERLAND** |
|               | 40         | 10.30 - 12.00 | LASIK*                                          | K. Ditzen **GERMANY** |
|               | 41         | 13.15 - 14.45 | LASIK*                                          | K. Ditzen **GERMANY** |
|               | 42         | 15.15 - 17.45 | DSEK*                                           | A. Sabala **SPAIN** |
| Room East 4   | 43         | 09.00 - 11.00 | Lens Replacement*                               | L. de Benito-Llopis **SPAIN**, R. Angunawela **UK** |
|               | 44         | 14.00 - 16.00 | Lens Replacement*                               | M. Fernandez **INDIA**, A. Borthakur **INDIA** |
|               | 45         | 16.30 - 18.30 | Refractive Success in Astigmatism Management with Toric IOLs and Image-Guided Technologies | A. Dmitriew **POLAND** |
| Room East 5   | 46         | 09.30 - 11.15 | Basic Corneal Suturing Techniques                | F. Mutlu **TURKEY** |
|               | 47         | 11.45 - 13.30 | Basic Scleral Suturing Techniques                | D. Kook **GERMANY**, A. Wolf **GERMANY** |
|               | 48         | 14.00 - 15.45 | Basic Trauma Suturing Techniques                | M. Nanavaty **UK**, S. Khan **UK**, S. Vasavada **INDIA** |
|               | 49         | 16.00 - 17.45 | Basic Keratoplasty Suturing Techniques          | F. Akata **TURKEY** |
| Room East 6   | 50         | 08.30 - 10.30 | Manual Small Incision Cataract Surgery          | A. Chakrabarti **INDIA**, R. Solanki **INDIA** |
|               | 51         | 11.30 - 13.00 | Supplementary Lens*                             | G. Kahraman **AUSTRIA**, K. Gundersen **NORWAY** |
|               | 52         | 14.00 - 16.00 | DMEK*                                           | M. Busin **ITALY**, C. Bovone **ITALY**, A. Ruzza **ITALY**, V. Scorcia **ITALY** |
## SURGICAL SKILLS TRAINING COURSES

**Location:** Level 7.3, East

Cost per course €100 or *€150 (plus VAT)  
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<th>Course</th>
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<tr>
<td>54</td>
<td>08.00 – 09.30</td>
<td>Micro-Incision Phaco</td>
<td>S. Morselli <strong>ITALY</strong>, A. Toso <strong>ITALY</strong></td>
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<tr>
<td>55</td>
<td>10.30 – 12.30</td>
<td>Basic Phacoemulsification</td>
<td>R. Mohan <strong>ITALY</strong></td>
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<td>56</td>
<td>13.30 – 15.30</td>
<td>Basic Phacoemulsification</td>
<td>M. Kynigopoulos <strong>SWITZERLAND</strong>, I. Vastaris <strong>SWITZERLAND</strong></td>
</tr>
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<td>57</td>
<td>16.00 – 18.00</td>
<td>Basic Phacoemulsification</td>
<td>I. Dekaris <strong>HUNGARY</strong></td>
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<tr>
<td>58</td>
<td>08.00 – 10.00</td>
<td>DSEK*</td>
<td>J. Peraza-Nieves <strong>SPAIN</strong>, R. Cuiña Sardiña <strong>SPAIN</strong></td>
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<tr>
<td>59</td>
<td>10.30 – 12.15</td>
<td>Basic Corneal Suturing Techniques</td>
<td>F. Mutlu <strong>TURKEY</strong></td>
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<td>60</td>
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<td>Basic Scleral Suturing Techniques</td>
<td>N. Vidovic Valentincic <strong>SLOVENIA</strong></td>
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<tr>
<td>61</td>
<td>08.00 – 10.00</td>
<td>Phaco: Management of Complications for Beginners</td>
<td>V. Džinić <strong>SERBIA</strong>, A. Hüning <strong>BRAZIL</strong></td>
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<td>62</td>
<td>10.30 – 12.30</td>
<td>Phaco: Management of Complications*</td>
<td>J. Bolger <strong>UK</strong></td>
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<td>63</td>
<td>13.00 – 15.00</td>
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<td>J. Bolger <strong>UK</strong></td>
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<td>64</td>
<td>15.30 – 17.30</td>
<td>Phaco: Management of Complications*</td>
<td>J. Bolger <strong>UK</strong></td>
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<td>65</td>
<td>08.00 – 10.00</td>
<td>DMEK*</td>
<td>M. Busin <strong>ITALY</strong>, C. Bovone <strong>ITALY</strong>, A. Ruzza <strong>ITALY</strong>, V. Scorcia <strong>ITALY</strong></td>
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<tr>
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<td>10.30 – 12.00</td>
<td>Iris Fixation Aphakic IOL</td>
<td>R. Khoramnia <strong>GERMANY</strong></td>
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<tr>
<td>67</td>
<td>14.00 – 16.00</td>
<td>Lens Explantation*</td>
<td>L. Benjamin <strong>UK</strong></td>
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<td>68</td>
<td>16.30 – 18.30</td>
<td>Lens Explantation*</td>
<td>N. Lau <strong>UK</strong></td>
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<td>Basic Corneal Suturing Techniques</td>
<td>F. Sutter <strong>SWITZERLAND</strong></td>
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<td>70</td>
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<td>Basic Scleral Suturing Techniques</td>
<td>E. Mrukwa-Kominek <strong>POLAND</strong></td>
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<tr>
<td>71</td>
<td>14.00 – 15.45</td>
<td>Basic Trauma Suturing Techniques</td>
<td>G. Hawlina <strong>SLOVENIA</strong></td>
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<td>16.00 – 17.45</td>
<td>Basic Keratoplasty Suturing Techniques</td>
<td>Y. Akova <strong>TURKEY</strong>, B. Cosar <strong>TURKEY</strong></td>
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<td>09.30 – 11.15</td>
<td>Basic Corneal Suturing Techniques</td>
<td>A. Prinz <strong>AUSTRIA</strong></td>
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<td>11.30 – 13.00</td>
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<td>Phaco: Management of Complications*</td>
<td>V. Džinić <strong>SERBIA</strong>, A. Hüning <strong>BRAZIL</strong></td>
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<td>Basic Corneal Suturing Techniques</td>
<td>I. Can <strong>TURKEY</strong></td>
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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. Gatinet  FRANCE
              J. Hjortdal  DENMARK

11.00  J. Alió  SPAIN
       New presbyopia-correcting IOLs

11.15  A. Langenbucher  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. Hirnschall AUSTRIA
Intraoperative OCT measurements

17.20  Discussion

17.30  End of session
SATURDAY 14 SEPTEMBER

08.30 – 17.45

REFRACTIVE SURGERY DIDACTIC COURSE

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. Hirnschall 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. Katsanevakil 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  
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. Hirnschall  AUSTRIA
Biometry: what you need to know

09.00 – 10.30

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. Baia  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

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
SATURDAY 14 SEPTEMBER

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.escrs.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

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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. Rodríguez-Vallejo, J. García-Montesinos, J. Martínez, D. Pinero Llorens **SPAIN**
Prevalence of central islands after small incision lenticule extraction (SMILE) and influence in the postoperative refraction

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

A comparison of the cost effectiveness of SMILE, LASIK, and PRK for treating myopia in a private eye center in Spain

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 intracocular 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)
- D. Chang **USA**, K. Tjia **THE NETHERLANDS**
  **South 3**

**IC12** Dry eye: an ocular surface disease after cataract and refractive surgery (I)
- S. Barabino **ITALY**, M. Rolando **ITALY**
- E. Messmer **GERMANY**
  **South 4**

**IC13** Management of anterior segment trauma: primary repair and management of sequelae (I)
- S. Shah **INDIA**, R. Natrajran **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)
- 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)
- S. Arshinoff **CANADA**
  **West 2**

**IC17** Targeting millennials and grandmas through Facebook (I)
- 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)
- 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)
- D. Butler **USA**
  **West 6**

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

Handouts available at www.escrs.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**

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

15.05 **M. Bragheeth** **KUWAIT**
Clinical evaluation of extended-range-of-vision IOL (ZXROO) implantation for refractive correction in cataract patients after radial keratotomy (RK)

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

15.15 **S. Virdee, R. Patel, D. Beddall, J. Devabattula, R. Nitiahpapand, S. Balal, A. Sharma** **UK**
Scheimpflug imaging of posterior polar cataracts

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

15.25 **M. Muraine, G. Boutillier** **FRANCE**
Phacoemulsification in a sitting position

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

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

15.40 **C. Soare, D. Patel, A. Ionides** **UK**
Cataract surgery outcomes with toric intraocular lenses in eyes with previous radial keratotomy

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

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

15.55 **M. Kremeshkov, A. Uyanov, 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

16.00 **B. Cochener-Lamard, N. Mazurel** **FRANCE**
The audacity of an EDOF implantation after refractive surgery

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

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

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

Assessment of IOL edges using scanning electron microscopy and atomic force microscopy: Clareon IOL vs AcrySof SN60WF IOL

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

16.30 End of session
SATURDAY 14 SEPTEMBER

15.00 – 16.30

PRESENTED POSTER SESSION

Infection & Imaging

Poster Village: Pod 2

Facilitators: K. Aggarwal UK
I. Yusuf UK

15.00 A. Elhusseiny, Y. Ismail, R. Elsheikh, H. Elsheikh, A. Awadein EGYPT
Outcomes of ocular perforation following local anaesthesia

15.05 J. Fajardo-Sanchez, E. Papamichael, N. Strouthidis, C. Pavesio, C. Wong, R. Angunawela UK
Treatment of chronic endophthalmitis with medical management in an eye with HumanOptics artificial iris/IOL implant following penetrating injury

15.10 A. Elsahn, M. Romero, M. Camara, H. Dua UK
Distribution and growth pattern of Pseudomonas aeruginosa bacteria in the corneal stroma during corneal infection

15.15 C. Garcia-Saen, Y. Andres-Alba, G. Rodríguez-Caravaca, M. Leal-Gonzalez, F. Pessanha, C. Del Prado-Sanchez, A. Arias-Puente SPAIN
Endophthalmitis following cataract surgery in the cefuroxime era: changes in the bacterial spectrum

15.20 M. Brízido, B. Lopes, P. Pereira, I. Galvão, A. Almeida PORTUGAL
Epidemiology of corneal ulcers: a 6-year retrospective study in a general hospital

15.25 L. Modamio, A. Borras, C. Rodríguez, J. Orduña, G. Ancoechea, I. Del Barrio, N. Mínguez SPAIN
Gonococcal keratoconjunctivitis in adults: case report

Review of urgent penetrating keratoplasty for fungal keratitis outcome

15.35 W. Zhang UK
Unilateral complete ophthalmoplegia: rare complication of herpes zoster ophthalmicus

15.40 R. Singh, S. Yadav, N. Sharma, R. Mukhiya, J. Urkude, A. Pujari INDIA
A simple smartphone-aided technique to quantify toric IOL alignment

15.45 E. Kudryashova, V. Gavrilyuk, D. Maltsev, A. Kulikov, S. Churashov, T. Gren RUSSIA
Corneal epithelium mapping for keratoconus severity grading

15.50 A. Ghanem EGYPT
Evaluation of anterior segment changes following laser peripheral iridotomy by Scheimpflug imaging

15.55 E. Sen, H. Yasar, E. Aydemir, H. Kiziltoprak TURKEY
Objective assessment of corneal clarity measurements in myopic, hypermetropic, and emmetropic children by Scheimpflug corneal topography

16.00 E. Egorova, A. Biryukova, V. Dulidova RUSSIA
Optical coherence tomography assessment of the posterior optic buttonholing technology

16.05 D. Pinero Llorens, A. Molina-Martin, R. Soto-Negro, P. Ruiz-Fortes, H. Fukumitsu SPAIN
Validation of ocular aberrometric and keratometric measurements provided by a new diagnostic integrated system in mild-to-moderate keratoconus

16.10 X. Wang, J. Dong, Y. Zhang, S. Zhang, B. Sun CHINA
Agreement of corneal astigmatism measurements obtained with three devices

16.15 H. Rashed, M. Abdel Rahman, A. Hegazy, M. Ismail EGYPT
Agreement between two meibomian gland imaging technologies

16.20 X. Chen, K. Wei, Q. Tag CHINA
Distribution of ocular biometric parameters between Chinese urban and rural cataract patients in Shanghai

16.25 Discussion

16.30 End of session
15.00 – 16.30
PRESENTED POSTER SESSION  YO
Medical Cornea
Poster Village: Pod 3
Facilitators:  W. Lubon POLAND
              S. Wagner POLAND

15.00  E. Holland, K. Nichols, G. Foulks, P. Gupta, K. Sall, R. Brazzell, A. Coultas USA
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

15.05  S. Sagerfors, B. Ejdervik-Lindblad, B. Söderquist SWEDEN
Infectious keratitis: cotton vs steel, do opposites agree? Comparison between two different instruments used for obtaining corneal material for direct inoculation in infectious keratitis

15.10  M. Irkec, O. Dikmetas, S. Kocabeyoglu TURKEY
Characterisation of corneal endothelial cells in keratoconus: a confocal microscopic study

15.15  M. Anderson, A. James, A. Agrawal UK
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

15.20  V. Jhanji, K. Lam, W. Chow USA
Topical azithromycin and oral doxycycline in Meibomian gland dysfunction

15.25  S. Srinivasan, J. Mehta, G. Peh Swee Lim UK
Corneal endothelial cell viability to impurities in trypan blue vital staining dye

15.30  M. Zebbache, M. Kerboua ALGERIA
Thygesen’s superficial punctate keratitis (TSPK)

15.35  D. Delgado Arellano, E. Chavez, M. Garzon, O. Chacon Camacho, J. Zenteno MEXICO
Identification of the FOXC1 and PITX2 gene in Axenfeld–Rieger syndrome with family association in the Mexican population

15.40  J. Shin, J. Lee, J. Kwon, C. Lee SOUTH KOREA
Efficacy of cyclosporine 0.05% on tear lipid layer and Meibomian gland after cataract operation

15.45  H. Al Ghadeer, T. Almudhaiyan, M. Alamyry, R. Khandekar SAUDI ARABIA
Emergency visits after keratoplasty in a tertiary eye care hospital in Saudi Arabia

15.50  N. Demirkaya, H. van Vliet, R. Lapid-Gortzak, C. Nieuwendaal, I. van der Meulen THE NETHERLANDS
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)

15.55  E. Samia-Aly, P. Mehta, A. Barua UK
Meibomian inversion syndrome and the cornea

16.00  R. Liegl, S. Neuhann, D. Kurse, W. Mayer, S. Priglinger, M. Shahari GERMANY
Repeatability and reliability of components of the ABCD keratoconus staging system

16.05  J. Fajardo-Sanchez, J. Kriman Nuñez, J. Dart UK
Severe bilateral phlyctenular keratitis secondary to pustular psoriasis, a rare variant of the psoriatic ocular inflammatory disease

16.10  N. Duru, H. Altinkaynak TURKEY
The relationship between keratoconus and serum levels of zinc, magnesium, iron, copper, vitamin B12, and vitamin D

16.15  D. Schmidl, M. Kallab, N. Hommer, S. Szegedi, R. Werkmeister, L. Schmetterer, G. Garhöfer AUSTRIA
Topical preservative-free hydrocortisone 0.335% improves signs and symptoms in patients with chronic dry eye disease and reduces ocular surface inflammation

16.20  C. Malhotra, H. Yadav, A. Jain, A. Gupta, J. Ram INDIA
Topical rebamipide as ‘add-on’ therapy for vernal keratoconjunctivitis

16.25  V. Lázaro, J. Botella García, D. Aragón Roca, M. De la Paz SPAIN
Triple A syndrome with ophthalmic manifestations

16.30  End of session
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

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

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
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)
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.escrs.org
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.
SUNDAY
15 September
SUNDAY 15 SEPTEMBER

08.00 – 17.45

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  A. Hamed, M. Heikal, T. Soliman, A. Daifalla, K. Said-Ahmed
SMILE intraoperative complications: incidence and management

08.06  D. Donate, R. Thaëron
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
Preliminary results of small incision lenticule extraction for myopic astigmatism

08.18  R. Arra, S. Ganesh, S. Brar
Comparison of outcomes following SMILE in patients with small and large angle kappa

08.24  J. Chong, M. Nutkiewicz, M. Nejad, D. Hamilton
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
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
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
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
Enhancement of lenticule thickness to improve outcomes of SMILE in low myopia

09.06  S. Ganesh, S. Brar
Comparison of clinical outcomes and visual quality using medium vs small cone in patients undergoing ReLEx SMILE with large corneal diameters

09.12  S. Taneri, S. Kießler, A. Rost, T. Schultz, H. Dick
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
Impact of percent tissue altered and other surgical and corneal parameters on regression after refractive lenticule extraction (ReLEx) SMILE

09.24  S. Pereira, S. Ganesh, S. Brar
A comparison of safety and clinical outcomes of 100µ vs 160µ cap in patients undergoing ReLEx small incision lenticule extraction (SMILE)

09.30  A. Kanellopoulos, F. Xhani
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
Small incision lenticule extraction (SMILE) with micromonovision vs LASIK micromonovision

09.42  X. Zhou, D. Fu, M. Li
Intraocular pressure changes and corneal biomechanics after hyperopic small incision lenticule extraction

09.48  Discussion

10.00  End of session
FREE PAPER SESSION
Keratoconus & Secondary Ectasia

**Free Paper Forum: Podium 2**

**Chairperson:** J. Vryghem **BELGIUM**

**Co-Chairperson:** P. Fournie **FRANCE**

08.00 **W. Ali Abousamra, A. Azmy, A. Elkannishy** **EGYPT**
Objective and subjective outcome of clear lensectomy with toric IOL implantation after corneal collagen cross-linking in selected cases of keratoconus

08.06 **C. Trindade, B. Trindade, F. Trindade** **BRAZIL**
A new approach to keratoconus: refractive lens exchange with piggyback intraocular pinhole

08.12 **A. Mounir, M. Elghobairi, E. Mostafa** **EGYPT**
Risk factors and clinical outcomes of femtosecond laser implanted keraring extrusion in keratoconic patients

08.18 **E. Jarade, M. Issa, W. Chanbour** **LEBANON**
The bio-ring: a new solution for stromal melting after ICRS implantation

08.24 **N. Balakrishnan, R. Shetty, A. Sinha Roy, P. Khamar, V. Laalgudi** **INDIA**
Customised topography-guided PTK and CXL following intrastromal ring segments in decentred cones

08.30 **V. Mittal, P. Narang, N. Sahdev, R. Mittal** **INDIA**
Femtosecond-assisted Bowman’s stromal inlay using IOL injector as an option in keratoconus management

08.36 **D. Johnson, A. Ralhan, J. Leroux** **CANADA**
Design and validation of a device to detect and quantify eye-rubbing behaviour

08.42 **M. Ghabra, H. Ghabra** **UK**
The effect of a novel radial corneal inlay implant (corneal arches) in keratoconic eyes

08.48 Discussion

08.57 **A. Kachanov, S. Nikulin, T. Churakov, S. Bauer, V. Kornikov, B. Zimin** **RUSSIA**
Corneal ectasia after 10,000 ReLEx SMILE operations

09.03 **C. Chan, A. Saad, D. Gatinei** **SINGAPORE**
Ectasia after laser in situ keratomileusis: lessons learnt from a multicentre case control study

09.09 **M. Fakhry Khattab, S. Eissa, K. Abdel-Aziz, T. Einaggar, O. Said, A. Abdelatif, M. Anis** **EGYPT**
Post-laser vision correction (LVC) ectasia: a study enrolled by the Egyptian Society of Keratoconus & Corneal Transplants

09.15 **R. Chandregowda Rajalakshmi, S. Ganesh, S. Brar** **INDIA**
Incidence of corneal ectasia in patients undergoing ReLEx SMILE and ReLEx SMILE Xtra in a high volume tertiary refractive surgery centre

09.21 **E. Torres-Netto, B. Spiru, S. Kling, F. Gilardoni, A. Lazaridis, W. Sekundo, F. Hafezi** **SWITZERLAND**
Biomechanical effect of corneal cross-linking (CXL) in fellow human corneas following SMILE or PRK in an ex vivo model for postoperative ectasia

09.27 **P. Ahuja, R. Shetty, A. Ghosh, S. Sethu, P. Khamar** **INDIA**
Rituals to prevent development of visually significant corneal haze after photorefractive keratotomy (PRK) or cross-linking (KXL)

09.33 **J. Tan, D. Lin, S. Holland, A. Covello, S. Arba Mosquera, V. Shwetabh, M. Al Obthani** **CANADA**
Topography-guided photorefractive keratotomy for correction of irregular astigmatism following penetrating keratoplasty

09.39 **A. Behndig** **SWEDEN**
Phototherapeutic intrastromal corneal collagen cross-linking (PiXL) for treatment of low-grade myopia: comparison of two different protocols with 12 months’ follow-up

09.45 **C. Kranemann** **CANADA**
Patterned cross-linking (PiXL) for refractive errors with epithelium-on (EPI ON) or epithelium off (EPI OFF) or corneal pocket approach

09.51 Discussion

10.00 End of session
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. Ufiltina 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 AUSTRAILIA
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
Precizeon 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

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
SUNDAY 15 SEPTEMBER

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

08.00 E. Abdullayev, K. Moench, S. Hasan, A. Kurz USA
Efficiency of the narrow-band ultra violet (UV) light in anti-fungal and anti-superbug decontamination of donor corneas

08.06 P. Rosetta, F. Camesasca, E. Legrottaglie, A. Borgia, P. Vinciguerra ITALY
Window absorption corneal cross-linking in the treatment of severe corneal ulcers: long-term follow-up

08.12 C. Cho, S. Lee SOUTH KOREA
Comparative analysis of clinical aspects and treatment outcomes between Stenotrophomonas maltophilia and Pseudomonas aeruginosa keratitis

08.18 Discussion

08.24 S. Edakhlon, R. George, M. Prabhusankar INDIA
In vitro activity of antibiotics against conjunctival flora

Long-term results in therapeutic keratoplasty for treating infectious keratitis: review of 24 cases

08.36 H. Mohammad Rabei, M. Javadi, S. Hosseini, N. Behnaz, D. Roshandel, S. Feizi, Z. Ghadiani IRAN
Prevalence of Demodex infestation in Iranian patients with chronic blepharitis vs normal population

08.42 M. Penades-Fons, M. Ferrer-García, E. Alfonso, E. García-Martínez, Á. Mira, C. Peris-Martínez SPAIN
Different ocular niches harbour distinct microbiota communities

08.48 Discussion

08.54 S. Saha, J. Sengupta, A. Khetan INDIA
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

09.00 D. Joshi, S. Joshi, S. Marathe INDIA
Cataract surgery with systemic co-morbidity: is perioperative management necessary?

09.06 A. Cummings, E. Brennan, S. Naughton, A. Coen IRELAND
Comparing the Argos optical biometer to the Lenstar optical biometer, Pentacam and topolyzer

09.12 A. Galeone, F. D’Oria, P. Puzo, N. Cardascia, G. Alessio ITALY
Analysis of ocular biometric characteristics in cataract surgery candidates from South Italy

09.18 Discussion

09.24 B. Lee, D. Hunter, D. Robaei, C. Samarawickrama AUSTRALIA
Ocular trauma in a major Australian tertiary centre: a 10-year review of clinical outcomes and economic costs

09.30 K. Irrsch, R. Bocheux, B. Rivièrè, P. Pernot, V. Borderie, K. Plamann FRANCE
Novel objective approach to retrieve quantitative measures of corneal transparency from depth-resolved images

09.36 R. Wisse, M. Mulijzer, F. Cassano, D. Godefrooij, Y. Prevooy, N. Soeters THE NETHERLANDS
Clinical validation of the new Easee online test to assess visual acuity and refractive errors: the Manifest vs Online Refractive Evaluation (MORE) trial

09.42 Y. Weill, J. Hanhart, D. Zadok, D. Smadja, E. Gelman, A. Abulafia ISRAEL
Swept-source OCT-based biometry for preoperative detection of macular pathology prior to cataract surgery

09.48 A. Saad, G. Debellemanière, D. Gatineau FRANCE
Screening for ectasia risk using a new classification (Gatineau-Malet) for higher-order aberrations

09.54 Discussion

10.00 End of session
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)
C. Roberts USA, S. Klyce USA, D. Koch USA, D. Epstein SWITZERLAND, B. Ventura BRAZIL
South 3

IC33  Ocular trauma assessment and management (I)
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)
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)
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)
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
SUNDAY 15 SEPTEMBER

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. Barač, 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. Alio del Barrio **SPAIN**

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

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. Chirapapais, M. Ekpo, M. Uiprasertkul, 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. Giallouros, W. Sekundo, F. Schoeder, K. Drotsas **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. Alio del Barrio, M. Bhogal, A. Montesel, 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

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: what are the risk factors?

10.30  S. Naylor, R. Darbyshire **UK**
Retained anterior chamber lens fragments after cataract surgery

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
## Sunday 15 September

### 09.30 – 11.00

**Presented Poster Session**

**Glaucoma I**

**Poster Village:** Pod 3

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
<th>Country</th>
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<tbody>
<tr>
<td>09.30</td>
<td>Effect of topical glaucoma medication on tear lipid layer thickness in patients with unilateral glaucoma</td>
<td>J. Kwon, J. Shin</td>
<td>South Korea</td>
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<td>09.35</td>
<td>Comparative outcomes of ab interno canaloplasty vs trabeculectomy in uncontrolled open-angle glaucoma</td>
<td>J. Izquierdo, N. Agudelo, B. Rubio, L. Cañola, K. Ruiz</td>
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<td>09.40</td>
<td>Efficacy and safety of micropulse cyclophotocoagulation for patients with ocular hypertension and glaucoma</td>
<td>Q. Kaba, E. Tam, S. Somani, D. Yuen</td>
<td>UK</td>
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<td>09.45</td>
<td>Correcting appplanation tonometer surface prism accuracy and correlation to biomechanical errors: a multicentre randomised clinical trial</td>
<td>S. McCafferty, J. Levine, A. McColgin</td>
<td>USA</td>
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<td>09.50</td>
<td>Early results of phacoemulsification combined with micropulse cyclophotocoagulation in patients with glaucoma: efficacy and safety</td>
<td>A. Daas, A. Nagar, H. Ho, A. Amon, I. Versi, K. Gadhi, S. Lim</td>
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<td>Evaluation of some ocular surface characteristics before and after trabeculectomy</td>
<td>A. Antonova, V. Nikolaenko</td>
<td>Russia</td>
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<td>10.00</td>
<td>Levels of cytokines and growth factors in the aqueous humour of eyes with developed stage of primary open-angle glaucoma and cataract</td>
<td>O. Ermakova, V. Chernykh, A. Trunov</td>
<td>Russia</td>
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<td>10.05</td>
<td>Predictability of intraocular lens power calculation after Ahmed valve implantation</td>
<td>D. Belov, V. Nikolaenko</td>
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<td>10.10</td>
<td>Relationship of glaucoma severity and medical treatment compliance with depression</td>
<td>J. Gamiochipi Arjona, Y. Azses Halabe, P. Tolosa Tort, M. Turati Acosta, J. Jiménez Román</td>
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<td>10.15</td>
<td>Comparison of surgical outcomes of sponge-applied vs subconjunctival injection of mitomycin C during combined phacoemulsification and trabeculectomy surgery in Asian eyes</td>
<td>X. Guo, B. Ang, P. Lim, B. Lim, V. Yong, H. Wong, L. Yip</td>
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<td>Sustained IOP and medication reduction after MIGS with second-generation trabecular bypass stents in OAG: 48-month outcomes</td>
<td>F. Aptel</td>
<td>France</td>
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<td>10.25</td>
<td>Uncontrolled corneal melting in a Xerodema pigmentosum patient</td>
<td>M. Garat Chifflet, D. Ortiz-Vaquerizas</td>
<td>Spain</td>
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<td>10.30</td>
<td>Anterior chamber characteristics after Descemet’s stripping automated endothelial keratoplasty in patients with Fuchs’ dystrophy</td>
<td>R. Karadag, K. Hammersmith, P. Nagra, C. Rapuano</td>
<td>Turkey</td>
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<td>10.35</td>
<td>Early outcomes of primary paediatric keratoplasty in patients with acquired, atraumatic corneal pathology</td>
<td>S. Ganekal</td>
<td>India</td>
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<td>10.40</td>
<td>Outcomes of corneal transplantation for advanced keratoconus</td>
<td>H. Sitnik</td>
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<td>10.45</td>
<td>Relationship between unfolding time of the DMEK roll and endothelial cell loss</td>
<td>M. Arino, N. Alejandro-Alba, B. Garcia-Sandoval, I. Jimenez-Alfaro, P. Arriola-Villalobos, M. Iradier, N. Gentile</td>
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<td>10.50</td>
<td>Use of Omnigen human amniotic membrane-derived dry matrix for pterygium surgery</td>
<td>F. Beer, N. Maycock, R. Jayaswal</td>
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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. Khoziev, 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
SUNDAY 15 SEPTEMBER

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

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

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
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. Gatineau**  **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  GERMANY
Multicentre prospective randomised clinical trial to evaluate the depth of focus of AT LARA 829MP, TECNIS Symfony and CT ASPHINA 409MP

14.06  M. Packer  USA
Clinical outcomes of a novel monofocal extended-depth-of-focus intraocular lens

Multi-country clinical outcomes of a new non-diffractive extended-vision intraocular lens at six months postoperatively

14.18  G. Labuz, R. Khoramnia, A. Özen, H. Son, T. Yildirim, G. Auffarth  GERMANY
Clinical evaluation of light-spectrum effects on the visual performance in patients with a diffractive extended-depth-of-focus intraocular lens

14.24  Discussion

14.30  J. Odette, K. Waltz, B. Wahl, D. Nguyen  USA
Retrospective study of an extended-depth-of-focus IOL in the presence of macular disease compared to a control group without macular disease

14.36  M. Romero, C. Palomino, D. Carmona, A. Castillo  SPAIN
Comparative study of the defocus tolerance between diffractive trifocal and extended-depth-of-focus intraocular lenses

14.42  M. Gil, C. Varón, G. Cardona, J. Bull  SPAIN
Visual acuity, defocus curves and contrast sensitivity with three EDOF IOLs (TECNIS Symfony ZXR00, Mini WELL Ready and AT LARA 829MP) six months after cataract intervention

14.48  P. Versace, E. Darian-Smith  AUSTRALIA
Functional performance and positional stability of a rhexis fixated IOL

15.00  R. Bilbao Calabuig, F. Llovet Osuna, V. Tejerina, F. Gonzalez-Lopez, J. Ortega-Usobiaga, J. Beltran, C. Pagnoulle  SPAIN
Isopure IOL: optical principles, optical bench results and first clinical outcomes of a new EDOF intraocular lens

15.06  T. Chung, Y. Yoo, Y. Kim, K. Shin, D. Lim  SOUTH KOREA
Comparison of visual outcomes between extended-depth-of-focus lenses

15.12  C. Balachandran, S. Lee, D. Carson, J. Lemp-Hull  AUSTRALIA
Vision outcomes of a non-diffractive extended-vision intraocular lens implanted with mini-monovision

15.18  C. Choi, J. Song  SOUTH KOREA
Clinical outcomes of mix-and-match implantation of EDOF and +3.25 add bifocal IOLs

15.24  Discussion

15.30  S. Lane, Z. Xu, J. Lutkenhaus, H. Zhang, S. Lee, X. Hong  USA
An experimental bench investigation of a new monofocal IOL for its design trade-off: refractive power shift and consequent image quality impact

15.36  E. Mrukwa-Kominek, A. Piotrowska-Gwozdz, W. Lubon, M. Kozikowska  POLAND
The sinusoidal trifocal intraocular lens in cataract surgery and its effect on the quality of patients’ vision

15.42  F. Kretz, D. Breyer, I. Kaiser, R. Lucchesi, C. Herbers, M. Moftha, S. Abdassalam  GERMANY
Individualised presbyopia treatment with intraocular lenses based on refractive optical principles

15.48  I. Baur, H. Son, T. Yildirim, P. Poompokawat, R. Khoramnia, G. Auffarth  GERMANY
First clinical experience with a new monofocal intraocular lens with enhanced depth-of-focus

15.54  Discussion

16.00  End of session
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

14.00 G. Bouitlier, M. Muraine, A. Denoyer, E. Gabison, D. Bernheim, M. Hacquard FRANCE
Refractive precision after combined endothelial DMEK keratoplasty and cataract surgery: multicentre study

14.06 K. Khrinup, Y. Nizametdinova RUSSIA
Descemeterorhexis combined with phacoemulsification in eyes with decompensated Fuchs' corneal endothelial dystrophy

14.12 L. Burk, J. Gilmore, L. Gilmore USA
Dual Blade goniotomy and direct viscodilation of the collector channels combined with cataract surgery: one year results

14.18 V. Vargas Fragoso, R. Barraquer, J. D’Antin, C. Garcia, F. Duch, J. Balgos, J. Alió SPAIN
Visual outcomes, safety and main causes of posterior chamber phakic intraocular lens bileenectomy

14.24 Discussion

14.30 K. Waltz, J. Odette, B. Wahl USA
Retrospective study of an extended-depth-of-focus IOL in the presence of glaucoma compared to a control group without glaucoma

14.36 Y. Ota, H. Bissen-Miyajima, M. Hirasawa, K. Minami, K. Yuki JAPAN
Visual function of extended-depth-of-focus intraocular lens in glaucomatous eye

14.42 Discussion

14.46 T. Om Parkash, R. Om Parkash, S. Mahajan INDIA
Validity of the flap motility sign: a sign of posterior capsule rupture in anterior capsular tears

14.52 M. Zetterberg, A. Behndig SWEDEN
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

14.58 A. Silvester, A. Pitalia UK
Risk stratifying for posterior capsule rupture: validity and utility for senior surgeons performing high-volume cataract surgery

15.04 K. Ichikawa, Y. Matsumaki, T. Ohta JAPAN
Postoperative results of the Mt Fuji technique used for posterior capsule rupture

15.10 Discussion

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

15.22 L. Ong-Tone CANADA
Practice patterns of Canadian Ophthalmological Society members in cataract surgery: survey 2018

15.28 I. Can, T. Takmaz TURKEY
Turkish Ophthalmological Association cataract surgery trend survey: 2018 results

15.34 U. Harley, E. Farquhar, A. Rotchford, K. Ramaesh UK
Are we performing cataract surgery too early? An analysis of patient-reported outcomes (PROs)

15.40 M. Bhogal, M. Potter, C. Wilde UK
Self-directed appraisal and refinement improves surgical efficiency in high volume cataract surgery

15.46 M. Shultz, V. Kolesnitchenko, G. Lau, A. Pilon USA
Utility of centralised cloud-based parameter database for setting optimisation for vacuum-based phacoemulsification surgery

15.52 Discussion

16.00 End of session
SUNDAY 15 SEPTEMBER

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

14.00 R. Vida, D. Reinstein, T. Archer UK
Outcomes of implantable collamer lens and footplate analysis by very high-frequency digital ultrasound

14.06 S. Goes BELGIUM
Quality of vision at different time intervals after phakic implantable collamer lens type V4c with a central port implantation: a prospective study

14.12 Y. Peng, M. Zhun, Y. Qin, Y. Zhang CHINA
Preliminary clinical study of LenSx femtosecond laser-assisted corneal keratotomy for correction of low or moderate astigmatism in posterior chamber intraocular lens implantation

14.18 D. Lin, M. Peng, L. Zhao, M. Khan CHINA
‘No viscoat’ implantable collamer lens implantation

14.24 L. Liu, J. Li CHINA
Effect of visco-less single-incision ICL implantation for myopic eyes

14.30 Discussion

Implantable collamer lens (ICL) for management of pseudophakic ametropia in eyes with a spectrum of previous corneal surgery

14.44 Z. Yang, Y. Luo CHINA
Acute maculopathy after Visian implantable collamer lens (ICL) implantation

14.50 E. Pazo, Z. Liu, H. Huang, C. Zheng, L. Xu, W. He CHINA
The impact of angle kappa and pupil size on quality of vision in high myopic patients with implantable collamer lens (ICL) implantation

14.56 D. Reinstein, R. Vida, T. Archer UK
Implantable collamer lens (ICL) vault and lens separation prediction using a multivariate regression model based on parameters acquired by very high-frequency digital ultrasound

15.02 F. Gonzalez-Lopez, C. Bouza-Miguens, M. Dupré, B. Mompean, R. Bilbao-Calabuig SPAIN
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

15.08 I. Romac Coc, B. Armstrong UAE
Incidence and evaluation of iridociliary cysts in patients who are candidates for posterior chamber implantable collamer lens surgery

15.14 Q. Chen, W. Tan CHINA
The vault after ICL implantation in myopia patients with anterior-positioned ciliary body

15.20 P. Serra, Á. Sánchez Trancón, S. Cerpa Manito, O. Torrado, A. Baptista SPAIN
Determining vault size in implantable collamer lenses: preoperative anatomy and lens parameters

15.24 Discussion

Long-term endothelial and visual safety in iris-fixated phakic intraocular lenses

15.40 P. Baptista, A. Marta, N. Silva, J. Poças, D. José, M. Lume, M. Pinto PORTUGAL
Comparative analysis on long-term qualitative and quantitative visual outcomes between two phakic intraocular lenses: Visian® ICL™ and Artiflex®

15.46 M. Tomita JAPAN
Refractive and visual outcomes with posterior chamber implantable phakic contact lens (IPCL) for presbyopia patients: one year follow-up

15.52 Discussion

16.00 End of session
FREE PAPER SESSION
Microinvasive Glaucoma Surgery

Free Paper Forum: Podium 4

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

14.00 – 16.00

14.00 F. Rüfer, M. Dabiri, B. Alokia, 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. Stergiopulos, 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. Neuhan 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

CO2 laser-assisted sclerectomy vs trabeculectomy: one year results

15.54 Discussion

16.00 End of session
SUNDAY 15 SEPTEMBER

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. Hirschschall 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. Scorcia 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. Labeloule 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.escrs.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

15.00 G. Labuz, R. Khoramnia, G. Auffarth GERMANY  
Laboratory assessment of the effect of spectral filters on the optical performance in an extended-depth-of-focus intraocular lens

15.05 M. Gil, F. Vega, J. Azor, N. Garzón, M. Millán, J. Buil SPAIN  
Monofocal intraocular lens designed to extend depth of focus

15.10 B. Dick, S. Schmichler GERMANY  
Visual performance of monocular implantation of a small-aperture intraocular lens: long-term follow-up

15.15 E. Papamichael, J. Fajardo-Sanchez, V. Rowe, G. Pramanik, B. Sewak, R. Jayaswal, R. Angunawela UK  
Real-world outcomes from small-aperture lens implantation

15.20 C. McCabe, J. Berdahl, J. Lemp-Hull, F. Poyales, C. Balachandran USA  
Visual disturbance profile of a non-diffractive extended vision intraocular lens from two pivotal trials

15.25 W. Mayer, M. Mackert, M. Shajari, J. Langer, B. Schworm, A. Wolf, S. Priglinger GERMANY  
Safety and efficacy of lens exchange surgery with implantation of a small-aperture intraocular lens in eyes with severe corneal irregularities

15.30 S. Shah, S. Shah, S. Rothe, O. Pirdankar INDIA  
Effect of glare on contrast sensitivity in subjects implanted with multifocal IOLs

15.35 N. Garzón, C. Albarrán-Diego, M. García-Montero, E. López-Artero, F. Poyales SPAIN  
Influence of trifocal intraocular lenses on standard automated refraction and aberrometer-based automated refraction

15.40 Y. Eom, S. Choi, C. Kim, S. Yang, J. Choi, J. Kim, H. Kim SOUTH KOREA  
Intraocular lens-induced astigmatism according to the orientation of multi-zonal design multifocal intraocular lens

15.45 F. Poyales, N. Garzón, Y. Zhou, R. Pérez SPAIN  
Comparison of visual performance and patient satisfaction in patients implanted with diffractive trifocal IOLs with similar optic design but differing in the IOL material

15.50 J. Schwiegerling, J. Lemp-Hull, S. Lane, K. Baker USA  
Simulated visual acuity performance of monofocal and extended-depth-of-focus intraocular lenses

15.55 F. Kretz, D. Breyer, I. Kaiser, R. Lucchesi, C. Herbers, M. Motha, S. Abdassalam GERMANY  
Finding the right presbyopia treatment: EDOF, trifocal or their combination?

16.00 K. Kok Khiang MALAYSIA  
Blended vision with Oculentis Mplus X MF30 and Oculentis Mplus MF20: the visual outcome and patient satisfaction of 150 patients

16.05 O. Orenburkina, M. Bikbov RUSSIA  
Femtolaser arcuate incisions for residual astigmatism correction after multifocal intraocular lens implantation

16.10 S. Kuznetsov, R. Galeev RUSSIA  
Implantation of bifocal intraocular optical system (BIOS): preliminary results

16.15 J. Garcia Perez, L. Alvarez-Rementeria Capelo, J. Gros-Otero, M. Garcia-Gonzalez, J. Ruiz-Alcocer SPAIN  
Is automated refraction a valid system for estimating manifest refraction in patients implanted with trifocal IOLs?

Quality of vision after innovative trifocal IOL implantation in presbyopic cataract patients

16.25 M. Piovella, B. Kusa ITALY  
Trifocal technology IOLs to correct refractive defects and presbyopia after cataract surgery

16.30 End of session
SUNDAY 15 SEPTEMBER

15.00 – 16.30

PRESENTED POSTER SESSION

Keratorefractive Surgery Results I

Poster Village: Pod 2

Facilitators:  W. Lubon POLAND
               S. Wagner POLAND

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
<th>Country</th>
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<tbody>
<tr>
<td>15.00</td>
<td>FemtoLASIK for the correction of ametropia after penetrating keratoplasty: one-year follow-up</td>
<td>L. Terracciano, G. Albani, D. Mucciolo, S. Rizzo ITALY</td>
<td>POLAND</td>
</tr>
<tr>
<td>15.05</td>
<td>Comparing the predictability, stability, efficacy, refractive outcome, contrast sensitivity and spherical aberrations in eyes undergoing SMILE and PRK: 1 year study</td>
<td>K. Kudlu, V. Jain, H. Vokuda, S. Girish INDIA</td>
<td>POLAND</td>
</tr>
<tr>
<td>15.10</td>
<td>Paediatric SMILE for myopic anisometropia</td>
<td>S. Jacob INDIA</td>
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</tr>
<tr>
<td>15.15</td>
<td>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</td>
<td>S. Patel, A. Bličević, M. Bohać, A. Pidro, M. Ahmedbegović Pjano, A. Pašalić UK</td>
<td>UK</td>
</tr>
<tr>
<td>15.20</td>
<td>Safety and efficacy of small incision lenticule extraction (SMILE) in eyes with flat and steep keratometry: a matched comparative study</td>
<td>J. Siedlecki GERMANY</td>
<td></td>
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<tr>
<td>15.25</td>
<td>‘Gas bubble escape sign’: a new intraoperative predictor of immediate visual quality after SMILE</td>
<td>R. Arra, S. Ganesh, S. Brat INDIA</td>
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<td>15.30</td>
<td>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)</td>
<td>A. Kanellopoulos, F. Xhani GREECE</td>
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</tr>
<tr>
<td>15.35</td>
<td>Factors associated with dry eye disease following keratorefractive surgery</td>
<td>R. Shehadeh-Mashor, M. Mimouni, Y. Shapira, T. Sela, G. Munzer, I. Kaizerman ISRAEL</td>
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<tr>
<td>15.40</td>
<td>Three-year results after femtosecond laser-assisted circular keratotomy as a treatment for keratoconus stage I-II: comparison with (iontophoresis-assisted) corneal cross-linking</td>
<td>K. Klaabe, D. Breyer, H. Kaymak, T. Ax, F. Kretz, G. Auffarth GERMANY</td>
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<tr>
<td>15.45</td>
<td>Selective corneal wavefront-guided transepithelial photorefractive keratectomy on post-corneal graft eyes</td>
<td>S. Awwad, N. El Saloukh, P. Ibrahim LEBANON</td>
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<tr>
<td>15.50</td>
<td>Improvement of reading visual acuity in presbyopic patients by multifocal aspheric excimer laser surgery in LASIK treatments</td>
<td>T. Kohnen, M. Herzog, K. Petermann, E. Hemkeppler, R. Forster, M. Böhmm, C. LwowskI GERMANY</td>
<td>GERMANY</td>
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<tr>
<td>15.55</td>
<td>Correlation between angle kappa and D-values of Belin/Ambrósio</td>
<td>C. Pérez Casaseca, A. Valenzuela Pérez, J. Ramos Navarro SPAIN</td>
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<tr>
<td>16.00</td>
<td>A prospective evaluation of topography-guided LASIK surgery: preliminary results</td>
<td>E. Manche, K. Hirabayashi USA</td>
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<tr>
<td>16.05</td>
<td>Late LASIK flap lift for refractive enhancements after five and ten years: safety and efficacy</td>
<td>J. Alio del Barrio, R. Hanna, M. Canto-Cerdan, A. Vega-Estrada, J. Alió SPAIN</td>
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<td>16.10</td>
<td>Visual rehabilitation after corneal damage using wavefront-guided transepithelial PTK</td>
<td>M. Luger, S. Arba Mosquera THE NETHERLANDS</td>
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<tr>
<td>16.15</td>
<td>Selective corneal wavefront-guided transepithelial photorefractive keratectomy on post-corneal graft eyes</td>
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<td>16.20</td>
<td>Additional correction using LASIK and PRK on pseudophakic eyes depending on the type of implanted IOL</td>
<td>L. Batalina, N. Pashinova, E. Gurmizov, K. Pershin, A. Tsygankov RUSSIA</td>
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<td>16.30</td>
<td>End of session</td>
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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

15.00  S. Pipis, G. Panos, A. Vergados  UK
Clinical effectiveness and safety of phaco combined with iStent inject G1 and iStent inject G2 in glaucoma service

15.05  A. Roble, H. Ali, T. Kersey  UK
Combined phacoemulsification with iStent or XEN or endo-cycloidiode: two years’ retrospective outcomes

15.10  A. Matsou, M. Dermenoudi, A. Tzamalis, E. Anastasopoulos  UK
Comparative study of the safety and efficacy of two techniques of diode laser transcleral cyclophotocoagulation for refractory glaucoma

15.15  D. Choudhury, N. Dash  INDIA
Delayed presentation of hypermature cataract in a developing nation: causes, risk of developing lens-induced glaucoma and visual prognosis following cataract surgery

15.20  N. Nizamani, I. Masood  UK
Goniosynechialysis: an effective management strategy for secondary angle-closure glaucoma

15.25  A. Nagar, S. Goyal, E. Galvis, A. Ramirez, A. Das, P. Alaghband, S. Lim  UK
Goniotomy using the Kahook Dual Blade (KDB) in glaucoma: a 3-month follow-up of tonographic outflow facility

15.30  U. Elgin, E. Sen, O. Budakoglu, D. Yildirim, N. Yesilyaprak  TURKEY
Laser peripheral iridotomy-induced changes in corneal densitometry in acute primary angle-closure glaucoma cases

15.35  B. Basarir, C. Altan, B. Solmaz, I. Pasaoglu, N. Alagoz, T. Yasar  TURKEY
Long-term clinical outcomes of micropulsed transcleral cyclophotocoagulation in open-angle glaucoma

Long-term outcomes of the Ahmed valve implant as primary surgical treatment of glaucoma associated with Axenfeld–Rieger spectrum

15.45  I. Grabska-Liberek, P. Duda, M. Rogowska, J. Majszyk-Ionescu, A. Skowyra, I. Kanó  POLAND
OMNI™ open-angle glaucoma treatment: an 18-month follow-up

15.50  S. García-Delpech, A. Hervás, P. Udaondo, E. Sanz Marco  SPAIN
Optic nerve perfusion analysis with glaucoma angio-OCT

15.55  D. Cela, E. Brasnu, P. Hamard, C. Baudouin, A. Labbé  FRANCE
Safety and efficacy of iStent Inject® trabecular micro-bypass stents during phacoemulsification for open-angle glaucoma associated with cataract

16.00  M. Gallardo  USA
Single-surgeon experience with iStent trabecular micro-bypass implanted in conjunction with cataract surgery: long-term outcomes

16.05  N. Olga  UKRAINE
Surgery of viscocycloidioretraction with excision of episclera in the treatment of patients with neovascular glaucoma

16.10  T. Lyubimova, E. Tumanyan, E. Ivashchenko  RUSSIA
The effectiveness of the one-step combined laser technique, consisting of the modified selective laser activation of the trabecula (MSLAT) and Descemet’s goniopuncture (DGP)

16.15  F. Stringa, R. Chen, P. Agrawal  UK
Timing and postoperative outcomes of supramid removal after Baerveldt tube (BVT) surgery in a UK tertiary referral centre

Two-year clinical results of XEN45® gel stent in a tertiary centre of ophthalmology in Portugal

16.25  A. Ansari, B. Karri, D. Mathews  UK
XEN stents: one year efficacy and experience in the management of this novel device

16.30  End of session
SUNDAY 15 SEPTEMBER

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. Tija  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. Seller  SWITZERLAND

West 4
16.30 – 18.00
FREE PAPER SESSION
Multifocal IOLs I

Chairperson: E. Mrukwa-Kominek POLAND
Co-Chairperson: T. Olsen DENMARK

16.30 D. Gatinel, J. Loicq, C. Pagnoulle 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

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

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
**SUNDAY 15 SEPTEMBER**

**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**

16.30  C. Dhull, S. Khokhar, Y. Gupta, K. Tiwari  **INDIA**

Role of ultrasound biomicroscopy in planning paediatric cataract surgery

16.36  J. Prado Marques, R. Fachinelli, A. Rodrigues  **BRAZIL**

Estimation of mean keratometry from biometric data and postoperative refraction of children’s eyes submitted to congenital and developmental cataract facetectomy


Evaluation of the Barrett Universal II formula for prediction of postoperative refraction following paediatric cataract surgery

16.48  S. Vasavada, V. Vasavada, D. Agarwal, A. Vasavada, V. Vasavada  **INDIA**

Intraoperative performance and postoperative outcomes of congenital cataract surgery up to six months of age

16.54 Discussion

17.00  J. Català-Mora, D. Cuadras, J. Diaz-Cascajosa, M. Castany-Aregall, J. Prat-Bartomeu, J. García-Arumí  **SPAIN**

Anterior iris-claw intraocular lens implantation for the management of non-traumatic ectopia lentis: long-term outcomes in a paediatric cohort

17.06  M. Tekavcic Pompe, S. Markelj, V. Pfeifer  **SLOVENIA**

Intraocular lens implantation in children with cataracts due to chronic uveitis

17.12  N. Bahgat, G. Gawdat, M. Youssef, D. Elfayoumi, M. Salah  **EGYPT**

Incidence and risk factors of early-onset glaucoma following paediatric cataract surgery in Egyptian children: one year study

17.18  A. Ellayeh, S. Gawad, E. Awad, S. Saleh  **EGYPT**

Posterior approach vs anterior approach in management of congenital cataract in Egyptian infants

17.24 Discussion

17.30  R. Anjum, U. Raina, S. Chaudhary, S. Gupta, J. Goyal, P. Sharma, V. Saini  **INDIA**

The surgical and visual outcomes of 25-gauge vitrectorhexis in paediatric cataract surgery with in-the-bag IOL implantation

17.36  R. Karim, R. Jolly, R. Henderson, P. Sharwood, C. Edelsten  **UK**

Primary cataract extraction and IOL implantation in the uveitic paediatric population

17.42  S. Khurana, J. Ram, R. Singh, P. Chawla Gupta  **INDIA**

Outcomes of cataract surgery in persistent fetal vasculature (PFV)

17.48  A. Mukherjee, S. Rao, B. Patel  **INDIA**

Modification of technique for performing manual small incision cataract surgery by left-handed surgeons: it is different

17.54 Discussion

18.00 End of session
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. Lugner, 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

Influence of flap thickness homogeneity over refractive outcomes and higher order aberrations induction after myopic femto-LASIK

16.42 N. Alpins, 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

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-Morodzewska, 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 keratotomy

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
SUNDAY 15 SEPTEMBER

16.30 – 18.00

FREE PAPER SESSION

Corneal Biomechanics

Free Paper Forum: Podium 4

Chairperson: R. Ambrosio Jr BRAZIL
Co-Chairperson: D. Touboul FRANCE

16.30 G. Mahadevan, R. Shetty, N. Dhami, A. Ghosh, A. Roy INDIA
Regional biomechanics and its correlation with molecular signatures in keratoconus

16.36 R. Vinciguerra, A. Tzamalis, V. Romano, E. Arbabi, M. Batterbury, S. Kaye ITALY
Assessment of the association between in vivo corneal biomechanical changes after collagen cross-linking and depth of demarcation line

16.42 S. Rodrigo Rey, R. Cañones-Zafría, M. García-González, P. Drake, I. Rodríguez, G. Bolivar-de Miguel, M. Teus SPAIN
Variation in the inter-day corneal thickness measurements performed with Corvis ST vs Pentacam in healthy corneas: a comparative study

16.48 S. Pirhadi, S. Daryabari, K. Jadidi, N. Mohamadi IRAN
Corneal biomechanical metrics in patients with keratoconus according to gender group

16.54 Discussion

17.00 S. McCafferty, J. Levine, A. McColgin USA
A novel clinical method for measuring corneal elasticity in vivo

17.06 S. Chen, P. Zhu, A. Vega-Estrada, J. Silvestre-Albero, J. Alió, F. Rodríguez-Reinoso, L. Bataille CHINA
Biomechanical effect of carbon nanomaterial implanted in rabbit corneal stroma

17.12 K. Jadidi, F. Nejat, S. Daryabari, S. Pirhadi IRAN
Corneal biomechanics metrics in patients following DSAEK surgery compared with healthy eyes

17.18 N. Menassa, M. Brunner, C. de Lossada, D. Borroni, G. Czanner, S. Kaye, V. Romano UK
Posterior corneal curvature changes in patients with keratoconus

17.24 Discussion

17.30 N. Shilova, N. Anisimova, B. Malyugin RUSSIA
Corneal optical densitometry following femtosecond laser-assisted DSEK vs microkeratome-assisted DSAEK: a comparative study

17.36 I. Toprak, A. Vega-Estrada, E. Esplá-Almodóvar, J. Alió TURKEY
Changes in corneal epithelium-to-stroma ratio in patients with keratoconus without visual limitation

17.42 B. Benito, L. Morales-Fernández, J. García-Bella, L. Perucho-González, J. Martínez-de-la-Casa, J. García-Feijoo SPAIN
Densitometric and biomechanical corneal characteristics in patients with primary congenital glaucoma

17.48 W. Sekundo, B. Spiru, S. Kling, E. Torres-Netto, A. Lazaridis, F. Hafezi GERMANY
Biomechanical properties of human cornea tested by two-dimensional extensiometry ex vivo in fellow eyes: PRK vs SMILE

17.54 Discussion

18.00 End of session
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’

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**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
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  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  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. Pamela USA,
R. Ambrosio Jr BRAZIL, D. Reinsein 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. Bolter-Fernandez SPAIN,
G. Barrett AUSTRALIA, H. Carreras Dias SPAIN,
K. Mehta INDIA
West 3

IC77  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

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. Gambra, S. Marcos, C. Dorronsoro SPAIN
Effect of cataract on preoperative predictions of multifocal acceptance with SimVis Gekko
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 Senosiai, 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

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

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. Hirschlall, 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
MONDAY 16 SEPTEMBER

08.30 – 10.30

FREE PAPER SESSION

Femtolaser-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
09.26  I. Belonozhenko, E. Sorokin  
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  
Experimental comparison between femtosecond laser-assisted and manual capsulotomy for eyes with zonular dehiscence

09.38  Discussion

09.46  D. Cao, Y. Wang  
Comparison of efficacy and practicality of laser in cataract surgery using two femtosecond laser platforms

09.52  Y. Chuang, B. Lin, P. Lin  
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  
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  
The evaluation of femtosecond laser-assisted anterior capsulotomy in the presence of ophthalmic viscoelastic devices (OVDs)

Differentiation between anterior segment images of femtosecond laser-assisted and manual cataract surgery utilising artificial intelligence

10.16  R. Malik, M. Sachdev, H. Gupta  
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 – 11.00

PRESENTED POSTER SESSION

Spotlight on Cornea

Poster Village: Pod 2

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

09.30 A. Vasquez Perez, V. Kit, S. Tuft UK
Spontaneous total Descemet’s membrane detachment nine years after penetrating keratoplasty for keratoconus

09.35 A. Vega-Estrada, E. Espla, A. Martinez, J. Alió SPAIN
Ten years’ follow-up after intracorneal ring segment implantation for keratoconus treatment

09.40 J. Titiyal, M. Kaur, F. Shaikh INDIA
Comparative evaluation of visual quality in DMEK and ultra-thin DSAEK and correlation with lenticule thickness

09.45 J. Parker, J. Parker, M. Heersink, G. Melles USA
Clinical outcomes of Descemet’s membrane endothelial keratoplasty in eyes with previous radial keratotomy

09.50 S. Trufanov, E. Salovarova, I. Novikov RUSSIA
Corneal density analysis in estimation of patients’ corneal status after different modifications of endothelial keratoplasty

Corneal remodelling and refractive changes in adolescent patients with keratoconus after intracorneal ring segments implantation

10.00 R. Moussa EGYPT
Corneal tattooing using liquid ink through adjustable lamellar intrastromal pocket

10.05 P. Laubichler, P. Jirak, M. Bolz, S. Mariacher AUSTRIA
Femtosecond laser-assisted anterior lamellar keratoplasty using the VICTUS femtosecond laser

10.10 M. Dickman, S. Dunker, S. Tang, B. Winkens, R. Nuijts THE NETHERLANDS
Practice patterns and long-term outcomes of corneal transplantation for infectious keratitis: a Dutch registry study

10.15 M. Yusuf, B. Umerji, S. Biswas, V. Sharma UK
A study looking at the clinical utility of a novel medication-scoring system in children with vernal keratoconjunctivitis

10.20 E. Sarnicola, R. Protti, C. Panico ITALY
Cenegermin for neurotrophic keratopathy: a small case series

10.25 F. Cremona, F. Lucero Saa, P. Rinaudo, E. Paez Soria, T. Francisco, P. Chiaradia ARGENTINA
Clinical findings in patients with ocular rosacea
09.30 – 11.00

PRESENTED POSTER SESSION

New & Interesting I

Poster Village: Pod 3

Facilitators: B. Bostanci Ceran TURKEY
N. Yesilirmak FRANCE

09.30 J. Gilmour-White, T. Richardson UK
Audit: quality of cataract surgery listing and preoperative assessment documentation

09.35 I. Bayer, M. Shajari, S. Priglinger, W. Mayer, E. Vounotrypidis GERMANY
Changes of parameters for IOL calculation for patients after combined phacovitrectomy with ILM-peeling

09.40 S. Choi SOUTH KOREA
Comparison of argon green laser and high-frequency radio-wave electrosurgery for conjunctivochalasis

Evaluation of retinal macroglia and thickness in rats: maternal undernutrition model

09.50 G. Karastatiras, S. Malka, A. Webster, M. Moosasje GREECE
Update on non-retinal genetic eye disease patients recruited from a single centre into the UK 100,000 Genomes Project

09.55 F. D’Oria, M. Bordinone, T. Rizzo, P. Puzo, R. Favale, S. Guerriero, G. Alessio ITALY
Validation of a new system for triage of ophthalmic emergencies: the Alphabetical Triage Score for Ophthalmology (ATSO)

10.00 F. Akritidou, S. Karachrisaphy, S. Roumelis, A. Karachalios, C. Karagiannidis, T. Papamitsou, A. Sioga GREECE
Alterations of anterior lens epithelium in pseudoexfoliation syndrome

Anatomical pathology in corneal ectasias: layer-by-layer study

10.10 J. Park, S. Yang, M. Park, S. Baek SOUTH KOREA
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 UK
Evaluating the readability and quality of online cataract surgery patient information

10.20 M. Vieversyte, L. Kuzmiene LITHUANIA
Evaluation of macular, ganglion cell complex and choroidal thickness in eyes with pseudoexfoliation syndrome

10.25 Discussion

11.00 End of session
MONDAY 16 SEPTEMBER

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

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. Zaldívar  ARGENTINA,
L. Werner  USA, S. Srinivasan  UK
West 1

* Wetlab Pre-Requisite  (A) Advanced  (B) Basic  (I) Intermediate
Handouts available at www.escrs.org
10.30 – 11.00

**ESCRS HERITAGE LECTURE 2019**

Auditorium

10.30  **B. Cochener-Lamard**  *FRANCE (PRESIDENT, ESCR*)  
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. Panchand INDIA
Refractive outcomes following laser photoocoagulation 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

14.00 D. Teenan, J. Schallhorn, S. Schallhorn, S. Hannan UK
Early postoperative outcomes of bilateral implantation of an extended-depth-of-focus IOL in a large series

14.06 M. Guarro, J. Pedrell, C. Peris, J. Álvarez de Toledo Elizalde, F. Poyales SPAIN
Clinical outcomes of a new extended-vision intraocular lens implanted by Spanish surgeons

Clinical evaluation of functional visual acuity after implantation of a monofocal extended-depth-of-focus intraocular lens with an addition of +1.25 dpt

Multi-country functional vision outcomes of a new non-diffractive extended-vision intraocular lens

14.24 Discussion

14.30 B. Acar, S. Acar TURKEY
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

14.36 B. Kashyap, B. Kashyap, B. Kashyap, N. Gajendragadkar INDIA
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

14.42 D. Rathod, S. Ganesh, S. Brar INDIA
Clinical outcomes and quality of vision following bilateral implantation of a new extended-depth-of-focus (EDOF) intraocular lens

14.48 H. Zwickl, M. Ruiss, J. Hienert, N. Hirnschall, O. Findl AUSTRIA
Comparison of visual performance of two different extended-depth-of-focus (EDOF) IOLs

14.54 Discussion

15.00 I. Matthäi, F. Rüfer, T. Herbst, D. Holland GERMANY
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

15.06 J. Costa, M. João, N. Franqueira, F. Faria Correia, T. Monteiro PORTUGAL
Visual performance of the monofocal EDOF Santen Xact® intraocular lens after cataract surgery

15.12 K. Kim, O. Koo, J. Park SOUTH KOREA
Visual performance and patient satisfaction after implantation of TECNIS Symfony® extended-range-of-vision IOLs: bilateral implantation vs two different mix and match approaches

15.18 K. Nakamura, H. Bissen-Miyajima, Y. Ota, M. Hirasawa, K. Minami JAPAN
Binocular visual performance after implantation of intraocular lens targeting emmetropia and slight myopia

15.24 Discussion

15.30 M. Sevik, S. Akkaya Turhan, E. Toker TURKEY
Near visual acuity and reading performance with low add bifocal and extended-depth-of-focus intraocular lenses implanted with mini-monovision

15.36 M. Jackson, A. Edmiston USA
Refractive targets and visual outcomes in patients implanted with extended-depth-of-focus IOLs after cataract surgery

15.42 P. Cecchini, R. Giglio, G. Turco, D. Toggetto ITALY
Extended-depth-of-focus and new-generation higher-order aspheric monofocal intraocular lenses: profilometry and morphology

15.48 C. Isanta Otal, F. Bartol-Puyal, G. Giménez Calvo, I. Altemir, J. Larrosa, V. Polo, L. Pablo SPAIN
Corneal and extraocular factors influencing defocus curve

15.54 Discussion

16.00 End of session
MONDAY 16 SEPTEMBER

FREE PAPER SESSION

Keratoconus

Free Paper Forum: Podium 2

Chairperson: J. Güell SPAIN
Co-Chairperson: J. Murta PORTUGAL

14.00 – 16.00

14.00 H. Studer, T. Koller, M. Jankov, E. Businaro, T. Seiler SWITZERLAND
Finite element simulation of tomographic parameters of keratectasia

14.06  S. Alsawilem, A. Albahad, A. Alqassimi SAUDI ARABIA
Keratoconus in Asian children

Are Descemet’s membrane ruptures the root cause of corneal hydrops in keratoconic eyes?

14.18  S. Watson, A. Ferdi, V. Nguyen, M. Abbondanza, F. Arnalich Montiel, M. Garcia, Y. Kerdraon AUSTRALIA
Finite element simulation of tomographic parameters of keratectasia

14.24 Discussion

Assessment of the mechanical forces applied during eye rubbing

Keratoconus area

14.42  J. Randleman, O. Golan, A. Piccinini, S. Khandelwal USA
Distinguishing highly-asymmetric keratoconus eyes using dual Scheimpflug/Placido analysis

Comparison of the variability of Scheimpflug imaging measurements between normal eyes, progressive and non-progressive keratoconus eyes at one year of follow-up

14.54 Discussion

15.00  R. Ambrosio Jr BRAZIL
Optimised artificial intelligence for integrating Scheimpflug tomography and biomechanics for enhanced ectasia detection

15.06  M. Ziaei, A. Gokul, H. Vallera, D. Patel, C. McGhee UK
Topographic, keratometric, refractive and wavefront changes attributable to epithelial removal in keratoconus

15.12  E. Pedrotti, E. Bonacci, T. Cozzini, J. Bonetto, T. Merz, P. Talli, G. Marchini ITALY
Twelve months' follow-up of intrastromal keratoplasty: new perspectives for the treatment of keratoconus

15.18  A. Rosa, M. Raimundo, C. Azenha, J. Gil, C. Tavares, P. Barbeiro PORTUGAL
Grading keratoconus progression using a novel decision-support software tool: an agreement analysis

15.24 Discussion

15.30  P. Khamar, R. Shetty, A. Ghosh, N. Kumar INDIA
Can unknown microbiomes drive keratoconus and cross-linking outcomes?

15.36  D. Godefrooij, S. Roohé, R. Wisse THE NETHERLANDS
The independent effects of various cross-linking treatment modalities on treatment effectiveness in keratoconus

15.42  S. Wahba, M. Roshdy, A. Hashem, A. Elawamry, B. Aziz EGYPT
Diagnostic accuracy of different keratoconus detection indices of rotating Scheimpflug camera in paediatric eyes

15.48  D. Smadja, D. Chen, B. Chiu, M. Santhiago, A. Abuafia, D. Zadok, J. Young ISRAEL
Comparison of machine learning algorithms in diagnosis of subclinical keratoconus

15.54 Discussion

16.00 End of session
14.00 – 16.00
FREE PAPER SESSION
LASIK & PRK II
Free Paper Forum: Podium 3

Chairperson: V. Katsanevaki GREECE
Co-Chairperson: B. Allan UK

14.00 B. Lin, Y. Chuang, P. Lin TAIWAN
Sub-Bowman flap 85 micron laser in situ keratomileusis: pilot study interim results

14.06 M. Zagrebeva RUSSIA
Correction of myopia and myopic astigmatism using WaveLight EX 500 Contoura

14.12 A. Kopylov, I. Syrykh, O. Fabrikantov RUSSIA
The efficacy of Femto-LASIK surgery in hypermetropia

14.18 A. Doga, I. Mushkova, A. Karimova, E. Kechin RUSSIA
Customised vs conventional Femto-LASIK procedures in low-to-moderate myopia: comparative analysis of the visual outcomes

14.24 W. Zhou, A. Stojanovic NORWAY
Correction target for astigmatism in topography-guided ablation and toric intraocular lens exchange in eyes with coma-dominant corneal optics

14.30 D. Chen, N. Lu, S. Chen, Q. Wang CHINA
Comprehensive assessment of repeatability for corneal epithelial thickness measurement with spectral-domain optical coherence tomography in myopia and post-keratorefractive surgery eyes

14.36 F. Tzani, A. Kanellopoulos GREECE
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

A comparative study of mechanical microkeratome vs femtosecond laser in early re-treatment after laser in situ keratomileusis (LASIK)

14.48 Discussion

15.00 B. Moscovici, P. Rymer, R. Gomes, M. Campos, P. Schor BRAZIL
PRK pain and symptoms: mechanical de-epithelization vs transepithelial ablation

15.06 G. Zhao, C. Zhang, J. Tang, R. Li, L. Lei, C. Feng CHINA
The effect of 0°C BSS on haze in TransPRK surgery

15.12 K. Doctor, S. Krishnamurthy, A. Kulkarni INDIA
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

15.18 N. Rybarova, E. Vlková SLOVAKIA
Long-term results of LASIK after penetrating keratoplasty

15.24 M. Arbelaez, J. Arbelaez, S. Arba Mosquera OMAN
12 years’ correction of high astigmatism (>2.5D) with an aspheric ablation profile: results for the AMARIS since 2007

15.30 H. Kandil EGYPT
Transepithelial photorefractive keratectomy for myopic retreatments after laser in situ keratomileusis

15.36 A. Covello, S. Holland, D. Lin, S. Arba Mosquera, V. Shwetabh, M. Al Obthani, J. Tan CANADA
Outcomes of photorefractive keratectomy with advanced beam profile for myopia

15.42 D. Lin, S. Holland, A. Covello, S. Arba Mosquera, V. Shwetabh, J. Hodgen, J. Tan CANADA
Immediate visual recovery after photorefractive keratectomy with new laser beam profile

15.48 Discussion

16.00 End of session
14.00 – 16.00
FREE PAPER SESSION
Anterior Segment Imaging

Free Paper Forum: Podium 4

Chairperson: S. Srinivasan  UK
Co-Chairperson: M. Puech  FRANCE

14.00  M. Shajari, R. Sonntag, W. Mayer, G. Steinwender, S. Priglinger  GERMANY
Repeatability and validity of total corneal power measurements (TrueK) with a new optical biometer (IOLMaster 700)

14.06  B. Cochener-Lamard, F. Arzel, A. Cassan  FRANCE
Evaluation of a new platform for quantifying the ocular surface

14.12  E. Yassa, C. Ünlü, T. Kurt  TURKEY
Repeatability of non-invasive tear break-up time measurements obtained with the Sirius eye anterior segment analyser

14.18  I. Radman, I. Krolo, A. Kasumović, M. Malenica Ravlić, K. Lončarić, Z. Vatavuk  CROATIA
The effects of eye-rubbing on the axial length, anterior chamber depth, tear film break-up time and the front eye segment parameters

14.24  D. Chen, Y. Yu, D. Tolley, Y. Ho, J. Lee, C. Yen, C. Tan  SINGAPORE
Using a novel portable smartphone slit lamp prototype to assess anterior chamber depth

14.30  Discussion

Anterior chamber angle features in primary congenital glaucoma using hand held anterior-segment OCT

14.42  I. Potapenko, M. Alberti, M. la Cour, J. Cabrerizo  DENMARK
Assessment of anterior chamber inflammation by objective anterior SS OCT image analysis

14.48  V. Chatzistergiou, A. Tzamalis, A. Diafas, I. Oustoglou, I. Tsinopoulos, N. Ziakas  SWITZERLAND
Repeatability of corneal pachymetry and epithelial thickness measurements acquired with spectral-domain optical coherence tomography in subjects with prolonged computer use

14.54  N. Mohr, D. Krause, N. Luft, M. Shajari, W. Mayer, S. Priglinger  GERMANY
Reliability of corneal, epithelial and stromal thickness mapping for a 9 mm zone using spectral-domain optical coherence tomography

15.00  X. Wang, J. Dong, Y. Zhang, S. Zhang, B. Sun  CHINA
Comparison of different diameter zone corneal power measurement centered on pupil and corneal apex using Scheimpflug tomography

15.06  Discussion

15.12  A. Molina-Martín, D. Piñero, M. Caballero, V. Camps, D. de Fez, H. Fukumitsu  SPAIN
Comparison of anterior corneal curvature and astigmatism parameters provided by three different devices

15.18  P. Paritekar, R. Shetty, A. Sinha Roy, C. Rachana, G. Kundu  INDIA
Bowman’s layer topography: comparing virtual values vs manual measurement

15.24  S. Mehta, G. Chaudhary, N. Shroff, G. Singh, A. Gupta  INDIA
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

15.30  A. Pujari, N. Sharma, J. Urkude, R. Singh, R. Mukhija  INDIA
Assessment of posterior capsular integrity on modified OCT: the conical sign of posterior capsular dearth

15.36  R. Mukhija, N. Sharma, A. Kishore, T. Makwana, N. Gupta, A. Pujari  INDIA
Simple innovations in refractive surgery: modified techniques to measure implantable collamer lens (ICL) vault

15.42  Discussion

16.00  End of session
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. Kivač 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

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  Intrascleral IOL fixation (A)  
O. Findl AUSTRIA, G. Scharioth GERMANY, M. Kronschlaeger AUSTRIA South 2

IC87  Phacoemulsification cataract surgery in uncooperative pupils (I)  
T. Wee SINGAPORE, R. Yeoh SINGAPORE, S.P. Chee SINGAPORE South 3

IC88  Laser refractive surgery (Young Ophthalmologist Course) (B)  
V. Diakonis GREECE, B. Bostanci Ceran TURKEY, G. Steinwender AUSTRIA, C. Lisa SPAIN South 4

IC89  Anaesthesia for cataract and refractive surgery (B)  
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)  
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)  
M. Shajari GERMANY, W. Mayer GERMANY, T. Kohnen GERMANY, D. Koch USA West 4

IC94  Phakic IOL implantation: achieving success and safety (A)  
A. Ağca TURKEY, B. Kose TURKEY, Y. Yildirim TURKEY West 5

IC95  Corneal ulcers and their diagnosis (B)  
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.escrs.org
MONDAY 16 SEPTEMBER

15.00 – 16.00

PRESENTED POSTER SESSION

Toric IOLs

Poster Village: Pod 1

Facilitators:  C. Della Guardia ITALY
              A. Panico ITALY

15.00  M. Garcia-Gonzalez, L. Alvarez-Rementeria,
       J. Garcia-Perez, J. Gros-Otero,
       J. Ruiz-Alcocer SPAIN
       Clinical performance and patient satisfaction in
       patients implanted with a trifocal toric intraocular
       lens

15.05  J. Moon, C. Yoon, M. Kim SOUTH KOREA
       Comparative effects of various types of toric
       intraocular lenses on astigmatism correction

15.10  M. Hernandez Diaz, M. Roig, E. Alfonso,
       E. Fernandez, R. Araujo, S. Montolio,
       C. Peris SPAIN
       Comparison of refractive and visual results of
       three toric intraocular lenses after cataract
       surgery

15.15  M. Packer, K. Venkateswaran, N. Tiwari, G. Lau,
       A. Pilon, V. Kolesnitchenko USA
       Enhanced vergence-based toric algorithm and its
       impact on reducing residual refractive error:
       a retrospective analysis

15.20  P. Marti Rodrigo, A. Martinez Palmer,
       J. Tuñí Picado, E. Segovia Maldonado,
       J. Armentia Perez de Mendiola SPAIN
       Toric intraocular lens vs opposite clear cornea
       incisions comparison for astigmatism correction
       in cataract surgery

15.25  J. Gros-Otero, L. Alvarez-Rementeria Capelo,
       J. Garcia-Perez, M. Garcia-Gonzalez,
       J. Ruiz-Alcocer SPAIN
       Validity of automated refraction after trifocal toric
       intraocular lens implantation

15.30  S. Nakano, T. Hirooka, T. Oshika JAPAN
       Comparison of predicted refractive outcomes
       between two different toric IOL calculation
       methods

15.35  A. Swampillai, N. Habib, A. Khanan Kaabneh,
       P. Buckhurst UK
       Efficacy of state-funded toric intraocular lens
       implantation in cataract surgery with high corneal
       astigmatism

15.40  S. Kale INDIA
       Enhancing surgical outcomes with toric lens
       implants the markerless way

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 SPAIN
       Toric intraocular lenses in the real world: rotational
       performance and visual outcome – does the
       astigmatism axis matter?

15.50  V. Pfeifer, A. Ursic, M. Schwarzbartl Pfeifer SLOVENIA
       Comparison of four IOL calculation approaches
       with and without a model for the compensation
       of posterior corneal astigmatism

15.55  W. Whang, H. Kim SOUTH KOREA
       New IOL calculation formula using corneal
       asphericity

16.00  End of session
15.00 – 16.00

PRESENTED POSTER SESSION
Intraocular Refractive Surgery
Poster Village: Pod 2

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

15.00 H. Kim, J. Huh, S. Choi, Y. Eom, S. Kang, J. Kim, J. Song SOUTH KOREA
Use of the posterior/anterior corneal curvature radii ratio on intraocular lens power calculation in patients with prior myopic laser vision correction

15.05 S. Jonker, A. Ronden, T. Berendschot, I. Saelens, N. Bauer, R. Nuijts THE NETHERLANDS
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

15.10 S. Rachapalle Reddi, P. Padmanabhan INDIA
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 SPAIN
Inter-eye vault differences in bilaterally implanted patients with implantable collamer lenses

15.20 K. Varna-Tigka, T. Kohnen GERMANY
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 SOUTH KOREA
Twelve-year follow-up of iris-fixated phakic intraocular lens implantation in Korean patients with myopia

15.30 G. Bianchi ARGENTINA
Diffractive phakic posterior chamber IOL for presbyopia

15.35 S. Hannan, J. Venter, D. Teenan, K. Hettinger UK
Extended-depth-of-focus IOL in patients with previous laser vision correction

15.40 B. Pajic, P. Zakharov SWITZERLAND
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 UK
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 UK
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

15.55 N. Makhotkina, T. Berendschot, M. Aelen, P. Hurks, V. van de Ven, R. Ruiter, R. Nuijts THE NETHERLANDS
The role of working memory and personal traits in adaptation to multifocal optical correction: a pilot study in soft multifocal contact lens users

16.00 End of session
MONDAY 16 SEPTEMBER

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. 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

Excimer laser-assisted selective corneal de-epithelialization for corneal collagen cross-linking

16.06 L. Buzzonetti, G. Petrocelli ITALY
Iontophoretic transepithelial collagen cross-linking vs epithelium-off collagen cross-linking in paediatric patients

16.12 M. Leucci, B. Allan, D. Gore UK
Continued long-term flattening following accelerated cross-linking for keratoconus

16.18 D. Gore, J. Hill, C. Liu, P. Deardorff, V. Thompson, M. Raizman, D. Adler UK
Impact of oxygen, UV parameters, and drug formulation on accelerated epi-on corneal cross-linking

16.24 Discussion

16.30 M. Rechichi, C. Mazzotta, F. Marco, A. Meduri, V. Romano, D. Borroni, M. Zagari ITALY
The new modified STARE-X EVO protocol for keratoconus: two years’ results of full customised transepithelial ablation and pachymetry-guided accelerated cross-linking

Corneal haze after cross-linking for keratoconic eyes with and without mitomycin C application: a prospective evaluation

16.42 T. Seiler, A. Batista, B. Frueh, K. Koenig SWITZERLAND
Riboflavin concentrations at the endothelium during corneal cross-linking (CXL) in humans

16.48 N. Pircher, S. Holzer, J. Lammer, G. Schmidinger AUSTRIA
Corneal cross-linking (CXL) with two different riboflavin solutions: a randomised controlled trial

16.54 Discussion

17.00 D. Borroni, N. Menassa, K. Iselin, S. Kaye, C. De Lossada, G. Coco, V. Romano ITALY
The 'epi-pocket': a new technique for corneal cross-linking

17.06 F. Gilardoni, E. Torres-Netto, S. Kling, N. Hafezi, F. Hafezi SWITZERLAND
Individualised corneal cross-linking in ultra-thin corneas: 2 year follow-up

17.12 K. Elsawah, J. Warbey, S. Hamada, M. Elalfy EGYPT
Keratoconus progression following collagen cross-linking treatment in the paediatric population: what are the predicting factors?

17.18 M.Sucu, Y. Yıldırım, B. Yıldız, A. Ağca TURKEY
Accelerated corneal collagen cross-linking in paediatric keratoconus: long-term results and comparison of two protocols

17.24 Discussion

17.30 J. Goyal, S. Chaudhary, R. Arora, R. Anjum, V. Veerwal INDIA
Comparison of safety and efficacy of CA-CXL and HPMC-CXL in keratoconus with thin cornea

17.36 S. Koronis, A. Rasoglou, A. Adamopoulou, E. Siskou, M. Balidis GREECE
Epithelium-on customised corneal collagen cross-linking for keratoconus

17.42 W. Lim, J. Siew, C. Chua, F. Khoo, F. Gasper SINGAPORE
Epithelium-on photorefractive intrastromal cross-linking (PIXL) with supplemental oxygen for low hyperopic and early presbyopic treatment

17.48 P. Legout, V. Saunier, D. Touboul FRANCE
Impact of CXL on corneal biomechanics and patient behaviour

17.54 Discussion

18.00 End of session
MONDAY 16 SEPTEMBER

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. Güeli 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. Schartoith 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)
  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)
  F. Llovet Osuna SPAIN, J. Ortega-Usobiaga SPAIN, G. Muñoz SPAIN, M. Calvo SPAIN, M. Martinez-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)
  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)
  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. Scorcia ITALY
  West 7

* Wetlab Pre-Requisite  (A) Advanced  (B) Basic  (I) Intermediate
Handouts available at www.escrs.org
## MONDAY 16 SEPTEMBER

**FREE PAPER SESSION**

**Cornea Surgical: Keratoplasties**

**Free Paper Forum: Podium 1**

**Chairperson:** G. Kymionis **GREECE**  
**Co-Chairperson:** J. Hjortdal **DENMARK**

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<thead>
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<th>Time</th>
<th>Speaker(s)</th>
<th>Title</th>
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<tr>
<td>16.30</td>
<td>M. Chew, A. Arundhati, L. Lim, J. Mehta, S. Young, D. Tan <strong>SINGAPORE</strong></td>
<td>Comparative study of long-term graft survival between penetrating keratoplasty and deep anterior lamellar keratoplasty</td>
<td><strong>SINGAPORE</strong></td>
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<td>16.42</td>
<td>J. Yu Ting, S. Lin, I. Tsai, L. Kuo, C. Tsai, L. Woung <strong>TAIWAN</strong></td>
<td>The presence and impact of herpes simplex virus type-1 DNA in recipient cornea and aqueous humour on graft survival following penetrating keratoplasty</td>
<td><strong>TAIWAN</strong></td>
</tr>
<tr>
<td>16.48</td>
<td>H. Aghamollaei, K. Jadidi, S. Mirghorbani, H. Safabakhsh, F. Nejat <strong>IRAN</strong></td>
<td>Recellular human corneal SMILE lenticule seeded with mesenchymal stem cells is a safe graft in an experimental animal model</td>
<td><strong>IRAN</strong></td>
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<tr>
<td>17.00</td>
<td>R. Birbal, I. Dapena, L. Ham, S. Ní Dhubhghailí, S. Oellerich, G. Melles <strong>THE NETHERLANDS</strong></td>
<td>Five-year clinical outcomes after Descemet’s membrane endothelial keratoplasty (DMEK): results of the first 500 consecutive cases</td>
<td><strong>THE NETHERLANDS</strong></td>
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<td>17.06</td>
<td>A. Einan-Lifshitz, Z. Mednick, A. Belkin, N. Sorkin, C. Chan, D. Rootman <strong>ISRAEL</strong></td>
<td>A comparison of DSAEK and DMEK in the treatment of failed penetrating keratoplasty</td>
<td><strong>ISRAEL</strong></td>
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<tr>
<td>17.12</td>
<td>S. Bagaglia, P. Gennaro, G. Gabriele, C. Mazzotta <strong>ITALY</strong></td>
<td>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</td>
<td><strong>ITALY</strong></td>
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<td>17.18</td>
<td>R. Fasciani, A. Caristia, L. Mosca, A. Caporossi <strong>ITALY</strong></td>
<td>Long-term results of preconditioning treatment with bevacizumab in high-risk patients</td>
<td><strong>ITALY</strong></td>
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<td>17.30</td>
<td>J. Chung, Y. Lee, K. Lee, J. Kim, S. Park, K. Koh, B. Kim <strong>SOUTH KOREA</strong></td>
<td>Combined phototherapeutic keratectomy and peripheral anterior stromal puncture in recurrent corneal erosion syndrome</td>
<td><strong>SOUTH KOREA</strong></td>
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<td>17.36</td>
<td>E. Melardi, A. Friehmann, J. Myerscough, C. Bovone, M. Busin <strong>ITALY</strong></td>
<td>Management of high astigmatism after penetrating keratoplasty by means of penetrating relaxing incisions under a flap</td>
<td><strong>ITALY</strong></td>
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<td>17.42</td>
<td>R. Solanki, S. Maled, K. Wali, K. Sathyamurthy <strong>INDIA</strong></td>
<td>Reliability of impression cytology in diagnosis of ocular surface neoplasia</td>
<td><strong>INDIA</strong></td>
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<td>17.48</td>
<td>T. Trinh, Z. Mednick, N. Sorkin, G. Santaella, A. Telli, A. Slomovic <strong>CANADA</strong></td>
<td>Long-term outcomes of a novel technique of simple limbal epithelial transplant (SLET) for treatment of recurrent pterygium</td>
<td><strong>CANADA</strong></td>
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<tr>
<td>17.54</td>
<td>Discussion</td>
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<td>18.00</td>
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MONDAY 16 SEPTEMBER

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

16.30 A. Liekfeld, S. Zoll GERMANY
Sulcus implantation of three-piece intraocular lenses

16.36 S. Levy-Neuman, O. Reitblat, A. Marcovich, A. Bukelman, G. Kleinmann ISRAEL
Clinical outcome of iris vs scleral intraocular lens fixation

16.42 M. Astete, T. González, M. Perez, M. Ramirez, A. Rimassa CHILE
Results of surgical aphakia correction with Gore-Tex scleral four-point fixation of an injected hydrophobic acrylic intraocular lens through a sutureless incision

16.48 K. Matovic, V. Pfeifer SLOVENIA
A two year experience with a sutureless transconjunctival intrascleral IOL fixation

16.54 Discussion

17.00 M. Dalby, O. Kristianslund, L. Drolsum NORWAY
Surgery for late in-the-bag intraocular lens dislocation: long-term visual outcome in a randomised clinical trial – lens repositioning vs lens exchange

17.06 D. Muth, T. Kreutzer, A. Wolf, M. Shajari, S. Priglinger, W. Mayer GERMANY
Safety and efficacy of current scleral-fixation methods for intraocular lenses (IOLs)

17.12 J. Beenakker, L. van Vught, G. Luyten THE NETHERLANDS
Differences in anterior chamber configuration in negative dysphotopsia

17.18 L. van Vught, G. Luyten, J. Beenakker THE NETHERLANDS
Peripheral aberrations in negative dysphotopsia

17.24 Discussion

17.30 T. Yildirim, R. Khoramnia, G. Łabuz, H. Son, P. Merz, I. Lieberwirth, G. Auffarth GERMANY
Intraocular lens calcification in eyes with supplementary lenses

17.36 D. Khair el Kareh, C. Torres-Quinones, R. Pineda II LEBANON
Crystallens intraocular lens opacification in a patient with asteroid hyalosis: a case report and review of the literature

17.42 P. Sankhe, S. Haldipurkar, V. Shetty, S. Tanwar, D. Shah, Z. Khatib, P. Nagvekar INDIA
A study comparing capsular changes following HOYA Vivinex® iSert and AcrySof IQ intraocular lens implantation in patients undergoing cataract surgery

17.48 R. Bourkiza, H. Abdalla, E. Mensah UK
Anterior optic fibrous membrane opacification of hydrophobic acrylic intraocular lens (IOL): case series and management strategies

17.54 S. Palioura, N. Relhan, E. Leung, V. Chang, S. Yoo, S. Dubovy, H. Flynn Jr. GREECE
Delayed-onset Candida parapsilosis cornea tunnel infection and endophthalmitis after cataract surgery: histopathology and clinical course

18.00 End of session
**FREE PAPER SESSION**

**Small Incision Lenticule Extraction II**

**Free Paper Forum: Podium 3**

*Chairperson: L. Trinh FRANCE*

*Co-Chairperson: S. Ganesh INDIA*

16.30  **M. Li, X. Zhou CHINA**
A multicentre survey for the prevalence of dry eye disease in Chinese refractive surgery candidates

16.36  **J. Villada, J. Tendero, J. Beltran, T. Villada** SPAIN
Incidence of corneal neuralgia after excimer laser corneal ablation

16.42  **B. Koktekir, Y. Karakucuk, S. Okudan** TURKEY
The effect of flushing the interface in SMILE

16.48  **N. Luft, J. Siedlecki, V. Schmeiter, M. Shajari, W. Mayer, S. Priglinger, M. Dirisamer** GERMANY
Small incision lenticule extraction (SMILE) vs implantable collamer lens (ICL) implantation for treatment of high myopia: a matched comparative study

16.54  **D. Wu, X. Fang CHINA**
Influence of cap thickness on corneal curvature changes in SMILE: three-month results

17.00  **J. Titiyal, A. Brar, M. Kaur, N. Sharma** INDIA
Comparative evaluation of visual quality, ocular surface and corneal biomechanics with small incision lenticule extraction and femtosecond laser-assisted in situ keratomileusis

17.06  Discussion

17.15  **O. Ibrahim, M. Abdalla, K. Nagy, A. El Massry** EGYPT
To evaluate safety and efficacy of SMILE procedure: nine years’ follow-up

17.21  **M. Onder, M. Soyler, M. Direl, M. Un, B. Acar** TURKEY
Complication management in small-incision lenticule extraction laser vision correction

17.27  **G. Liang CHINA**
Early clinical observation of intraoperative corneal stromal pocket irrigation by dexamethasone

17.33  **H. Koo, S. Kim, D. Lee** SOUTH KOREA
Long-term clinical outcomes of small incision lenticule extraction with accelerated corneal cross-linking (SMILE Xtra): two year results

17.39  **M. Abdalla, K. Nagy, O. Ibrahim** EGYPT
Combined flapless refractive lenticule extraction (SMILE) and intrastromal corneal cross-linking in patients with suspicious topography and/or thin corneas: refractive and biomechanical outcomes

17.45  **K. Pradhan, D. Reinstein, P. Dhungana, G. Carp, T. Archer** NEPAL
SMILE for hyperopia: visual and refractive outcomes at 12 months

17.51  Discussion

18.00  End of session
16.30  N. Aguilar, M. Hofmann, H. Matiz, F. Mata MEXICO
Incidence of glaucoma following cataract surgery in paediatric population at a reference centre in Mexico

16.36  S. Asrani, T. Heah USA
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

16.42  A.M. Nourelidine, P. Fouad, H. Ahmed, M. Khafagy EGYPT
ONH OCT diagnostic parameters of glaucoma in high myopes

16.48  F. Abo Alhassan, M. Hosny, M. Salem, H. Alshewy EGYPT
Changes in the intraocular pressure (IOP) readings and corneal biomechanics following small incision lenticule extraction (SMILE)

17.36  A. Barata, M. Georgopoulou, G. Ratnarajan PORTUGAL
Outcomes of phacoemulsification combined with two iStent inject trabecular microbypass stents and endocyclophotocoagulation

17.42  V. Melnyk UKRAINE
Effectiveness of combined cataract and glaucoma surgery in different stages of open-angle glaucoma patients

17.48  C. Schweitzer, A. Labbe, A. Mudd, K. Nieland, J. Kleinjens, G. Gicquel, H. Falvey FRANCE
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

17.54  Discussion

18.00  End of session
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 - 20.00

18.00 T. Kohnen GERMANY, S. Slade USA
Introduction

18.05 S. Ganesh INDIA
Post op refractive surprise dilemma after trifocal implant and unconventional management

18.11 Discussion

18.16 M. Lawless AUSTRALIA
Recurrent interface epithelial cyst 2 years after SMILE

18.22 Discussion

18.27 R. Yeoh SINGAPORE
Blurred vision after blepharoplasty

18.33 Discussion

18.38 O. Findl AUSTRIA
A special case

18.44 Discussion

18.49 B. Malyugin RUSSIA
Multifocal IOL in post-RK eye

18.55 Discussion

19.00 R. Nuijts THE NETHERLANDS
Decreased vision after piggyback multifocal

19.06 Discussion

19.11 L. Buratto ITALY
Why is this IOL decentered?

19.17 Discussion

19.22 B. Cochener-Lamard FRANCE
Contribution of endoscopy in a challenging implantation

19.28 Discussion

19.33 J. Güell SPAIN
A special case

19.39 Discussion

19.44 Conclusion

20.00 End of session
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

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)

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

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. Boutilier, 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 sutured-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. Taberner, 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

08.30 D. Touboul, E. Coirier, V. Saunier FRANCE
Clinical evaluation of deeply manually stripped endothelial automated keratoplasty (DMSEAK) as a new ultrathin endothelial keratoplasty

08.36 D. Shahnazaryan, A. Hajjar Sese, E. Hollick UK
Comparison of clinical outcomes of Descemet’s membrane endothelial keratoplasty (DMEK) vs DMEK combined with cataract surgery in Fuchs’ endothelial dystrophy

08.42 D. Dragnea, R. Birbal, I. Dapena, L. Han, J. Parker, S. Oellerich, G. Melles ROMANIA
Clinical outcomes of Descemet’s membrane endothelial keratoplasty in eyes with a glaucoma drainage device

08.48 G. Salsini, J. Myerscough, C. Bovone, M. Mimouni, M. Elkadim, S. Padroni, M. Busin ITALY
Factors predictive of double anterior chamber formation following deep anterior lamellar keratoplasty

08.54 Discussion

09.00 G. Gerten, P. Thiee, U. Oberheide GERMANY
Clear cornea femto DALK: a novel approach for deep anterior lamellar keratoplasty (DALK) with femtosecond laser-assistance

09.06 J. Cabrerizo Nunez, I. Potapenko, M. Alberi DENMARK
Evaluation of the use of intraoperative triamcinolone in Descemet’s membrane endothelial keratoplasty

09.12 J. Hou, P. Bedard, J. Justin, M. Hansen USA
Inducing a trifold conformation in Descemet’s membrane endothelial keratoplasty (DMEK) using small paired radial incisions

09.18 Discussion

09.24 L. de Benito-Llopis, S. Koay UK
Refractive outcomes in combined cataract surgery and Descemet’s membrane endothelial keratoplasty (phacoDMEK)

09.30 L. Ham, S. Oellerich, K. van Dijk, L. Frank, S. Ní Dubhgháill, L. Baydoun, G. Melles THE NETHERLANDS
Risk factors associated with high endothelial cell density decrease after Descemet’s membrane endothelial keratoplasty (DMEK)

09.36 M. Macsai, M. Shiloach USA
The use of Rho kinase inhibitors after Descemet’s stripping only in Fuchs’ dystrophy

09.42 J. Cabrerizo Nunez, G. Özer, M. Kyhn, K. Hejgaard Olsen, M. la Cour, J. Cabrerizo DENMARK
Air vs sulphur hexafluoride in DMEK: a randomised controlled trial

09.48 Discussion

09.54 M. Petrelli, D. Miltsakakis, K. Andreanos, C. Koutsandrea, K. Droutsas GREECE
Visual outcomes of ultrathin Descemet’s stripping endothelial keratoplasty vs Descemet’s stripping endothelial keratoplasty

10.00 N. Moura Coelho, D. Hipólito Fernandes, S. Crisóstomo, N. Alves, P. Candelária, V. Maduro, J. Feijão PORTUGAL
Analysis of repeat Descemet’s stripping automated endothelial keratoplasty (reDSEAK) from a tertiary centre of ophthalmology in Portugal

10.06 R. Simons, S. Dunker, M. Dickman, F. van den Biggelaar, C. Dirksen, R. Nuijts THE NETHERLANDS
Trial based cost-effectiveness analysis of Descemet’s membrane endothelial keratoplasty (DMEK) vs ultrathin Descemet’s stripping automated endothelial keratoplasty (UT-DSEAK)

Quality of vision after ultra-thin Descemet’s stripping automated endothelial keratoplasty (UT-DSEAK) vs Descemet’s membrane endothelial keratoplasty (DMEK): a multicentre randomised controlled clinical trial

10.18 A. Vega-Estrada, C. Fariselli, J. Alió SPAIN
Corneal posterior surface analysis of patients with Down syndrome

10.24 Discussion

10.30 End of session
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. Schiewegerling, 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. Cembali, D. Blondino, 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
TUESDAY 17 SEPTEMBER

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 NEW The surgeon’s guide to SMILE: complications and retreatments (I)
  G. Carp UK, D. Reinstein UK, A. Day UK,
  A. Stuart UK, R. Vida UK
  West 2

IC110 NEW Tips and tricks for refractive lens exchange in challenging patients (I)
  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)
  A. Grzybowski POLAND, P. Artal SPAIN, J. Alió SPAIN,
  D. Keegan IRELAND, M.J. Tassignon BELGIUM,
  G. Scharioth GERMANY
  West 5

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

* Wetlab Pre-Requisite (A) Advanced (B) Basic (I) Intermediate
Handouts available at www.escrs.org
09.30 – 11.00 PRESENTED POSTER SESSION

After Surgery

Poster Village: Pod 1
Facilitators: C. Della Guardia ITALY, A. Panico ITALY

09.30 Y. Tokunaga, E. Nishimura, R. Ebine, A. Toujyuu, A. Kurike, K. Yokoyama, M. Soda JAPAN
Consideration of the duration of the intraocular lens (IOL) dislocation for each risk factor after the initial cataract surgery

09.35 A. Young, K. Kam HONG KONG
Perioperative predictors of success in scleral-fixated intraocular lens implantations

09.40 N. Reus, J. Vlasman, T. van den Berg THE NETHERLANDS
Straylight in a patient with calcification of the IOL due to asteroid hyalosis

09.45 S. Manning, M. Ashraf, C. Quigley IRELAND
Reversible opacification of a hydrophobic acrylic intraocular lens

09.50 C. Mastromonaco, M. Balazsi, J. Burnier, M. Burnier CANADA
Large-scale analysis of intraocular lens opacifications using digital automated detection software

09.55 S. Masnec, M. Kalauz, T. Kuzman, I. Skegro, S. Jandrokovic CROATIA
Postoperative analysis of glistenings and posterior capsule opacification (PCO) after phacoemulsification: comparison of two different intraocular lenses

10.00 M. Millan, N. Garzon, F. Vega SPAIN
Chromatic aberration of phakic and pseudophakic eyes measured in the clinic

10.05 R. Ang, R. Williams, R. Suryakumar PHILIPPINES
Evaluation of anterior chamber depth, endothelial cell loss, and safety following optic exchange of a modular intraocular lens

10.10 M. Romero Sanz, F. Bartol-Puyal, C. Almenara Michellea, D. Soriano Pina, A. Mateo Orobia, J. Larrosa Povés, L. Pablo Júdez SPAIN
Vision comparison after implantation of two different intraocular lenses: Tecnis and Clareon

10.15 E. Liang, G. Lau, V. Kolesnitchenko, A. Pilon USA
Range-of-vision in patients implanted with hydrophobic acrylic monofocal IOL with zero spherical aberration

10.20 M. Konovalova, O. Milovitch, K. Pershin, N. Pashinova, A. Tsygankov, I. Likh, E. Gurmizov RUSSIA
An experience of binocular implantation of diffractive trifocal intraocular lens for presbyopia correction

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

10.30 C. López Caballero, C. Sánchez Sánchez, B. Puerto Hernández, I. Contreras SPAIN
Influence of narrow anterior chamber in the postoperative residual error after phacoemulsification with multifocal lens implantation

10.35 H. Huang, C. Hsiao, S. Kuo TAIWAN
The correlation between refractive status and visual outcome in patients having cataract surgery with multifocal intraocular lens: Lentis Mplus implantation

10.40 S. Kaya Unsal, F. Helvacioğlu, E. Sunay, O. Kavalcıoğlu TURKEY
Topographic factors affecting dissatisfaction after trifocal IOL implantation

10.45 J. Corre, B. Cochener-Lamard FRANCE
The challenge of presbyopic phakic implantation

10.50 T. Page, L. Werner, N. Ellis, J. Hezcko, D. Rooney, M. Gappy USA
The effect of capsular tension rings on accommodative intraocular lens performance and the suture-guided capsular tension ring technique for eyelet positioning

10.55 R. Ruiz-Mesa SPAIN
Visual outcomes and optical quality of a new trifocal intraocular lens

11.00 End of session
09.30 – 11.00

PRESENTED POSTER SESSION

Keratorefractive Surgery Results II

Poster Village: Pod 2

Facilitators: B. Bostanci Ceran TURKEY
N. Yesilirmak FRANCE

09.30 N. Duru, Z. Duru, D. Ulusoy TURKEY
Diffuse lamellar keratitis associated with contact lens after FemtoLASIK: case series

09.35 A. Gyldenkerne, A. Iversen, J. Hjortdal DENMARK
Assessing the change in visual quality and predicting the postoperative visual acuity following small-incision lenticule extraction for high myopia

09.40 S. Diniz, P. Gomes, I. Matias, P. Neves PORTUGAL
Urrets-Zavalia syndrome after phakic intraocular lens implantation

09.45 M. Bohač, M. Pauk Gulic, A. Pašalić, S. Patel CROATIA
Custom ablations in irregular corneas

09.50 E. Eskina, V. Parshina RUSSIA
Tips and tricks for customised ablation

09.55 R. Malik, M. Sachdev, H. Gupta INDIA
Unilateral post-LASIK ectasia despite normal tomography

10.00 M. Marzidovsek, V. Pfeifer SLOVENIA
To analyse the clinical outcomes of ten consecutive complex patients undergoing reconstructive iris surgery with artificial iris implantation using a four-floating-suture technique

10.05 A. Karunakaran, A. Sinha Roy, R. Shetty, P. Ahuja INDIA
Long-term outcomes of novel customised topography-guided removal of epithelium (TREK) with topography-guided photorefractive keratectomy (T-PRK) with cross-linking

10.10 G. Mahadevan, R. Shetty, P. Ahuja, P. Khamar INDIA
Understanding subepithelial corneal nerve plexus using a novel software in refractive surgery

10.15 D. Pinoero Llorens, P. Ruiz-Fortes, H. Fukumitsu, R. Soto-Negro SPAIN
Interchangeability of corneal curvature and asphericity measurements provided by three different devices

10.20 G. Kymionis, G. Kontadakis, N. Voulgaris, M. Grentzilos GREECE
Treatment of myopia and astigmatism in eyes with suspicious topography with PRK followed by accelerated CXL: PRK-Plus

10.25 D. Kang, H. Lee, E. Kim, T. Kim, J. Choi, S. Park SOUTH KOREA
Decentration measurements using the tangential curvature topography and Scheimpflug tomography pachymetry difference maps after small incision lenticule extraction procedure

10.30 S. Nielsen, A. Eriksen, A. Iversen, H. Sejersen, C. Moeller, C. Hedegaard, J. Hjortdal DENMARK
Patient-reported satisfaction after small incision lenticule extraction (SMILE) in 1,620 myopic patients

10.35 N. Quesnel, C. Ferremi, M. Boileau, S. Lor, M. Lachapelle, A. Simard, C. Ieraci CANADA
Patient satisfaction 4-5 years after refractive laser vision correction (PRK or LASIK)

Six-month results of refined vs conventional single-step TransPRK in correction of different degrees of astigmatism

10.45 Y. Karakucuk, B. Ekinci Köktekir, B. Bozkurt TURKEY
Small incision lenticule extraction (SMILE): intraoperative complications

10.50 Ü. Kamış, M. Gülmez, B. Küçük TURKEY
The influence of cap thickness on visual outcomes in small incision lenticule extraction

10.55 Discussion

11.00 End of session
PRESENTED POSTER SESSION 00
Corneal Cross-Linking
Poster Village: Pod 3

Facilitators: A. Frings GERMANY
N. Visser THE NETHERLANDS

09.30 C. Bonzano, C. Cutole, D. Musetti, C. Traverso ITALY
Delayed re-epithelialization after epithelium-off cross-linking: predictors and impact on keratoconus progression

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 Giralt, L. Sanjuan Riera, R. Montejano Milner SPAIN
Effectivity of corneal cross-linking in paediatric keratoconus with or without previous treatment with intraconical 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

Evaluation of Corvis biomechanical index for diagnosing forme fruste keratoconus

10.15 B. Yildiz, C. Gurez, 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. Kisz, M. Kubrak-Kisza, 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. García Arumi Fuste, S. Martin Nalda, L. Bisbe Lopez, R. Martín Pujol, D. Aragon Roca, M. Berges Martí 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
**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-Rodríguez** **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. Maccsai, M. Shiloach** **USA**  
Evaluating rates of cystoid macular edema after dropless cataract surgery

14.44  
**T. Laube** **GERMANY**  
Prevention of pseudophakic cystoid macular edema: comparison of two perioperative treatment strategies

14.50  
**B. Johansson, J. Gärdfin** **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 edema 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 Mydriasert® 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

14.00  P. Ursell, M. Dhariwal, D. O’Boyle, J. Khan, A. Venerus, A. Muthutantri  UK
Risk factors associated with higher incidence of Nd:YAG capsulotomy post-cataract surgery: UK EMR database study

14.06  V. Guduru, J. Kasireddy  INDIA
PCO ring: a novel device to prevent posterior capsule opacification and enhance toric IOL stability

14.12  C. Joo, Y. Yoo, S. Choi, J. Mok, B. Choi, H. Seok, H. Jeon  SOUTH KOREA
Periodic nano-textured micro-patterns on intraocular lens surface to regulate posterior capsular opacity

14.18  J. García-Montesinos Gutiérrez, M. Rodríguez-Vallejo, J. Martínez, D. Piñero, J. Fernández  SPAIN
Posterior capsular opacification and contrast sensitivity defocus curve with two trifocal intraocular lenses

Phimosis treatment following femtosecond laser-assisted cataract surgery with multifocal lens implantation

14.30  Discussion

Capsular bag performance of a novel hydrophobic acrylic single-piece intraocular lens: two year results of a randomised controlled trial

Evaluation of posterior capsule opacification of the Alcon Clareon IOL vs the Alcon Acrysof IOL using a human capsular bag model

Assessment of the posterior edge profile of hydrophobic intraocular lenses using scanning electron microscopy

15.02  S. Daryabari, H. Aghamollahi, K. Jadidi, M. Naderi  IRAN
In silico design of new inhibitors for crystalline aggregation as a new approach in treatment of congenital cataract

15.08  Discussion

15.16  K. Næser, G. Savini  DENMARK
The accuracy of thick-lens intraocular lens power calculation based on cutting card or calculated data for lens architecture

15.22  N. Hirnschall, S. Amir Asgari, J. Hienert, H. Matz, O. Findl  AUSTRIA
Novel intraoperative swept-source optical coherence tomography measurements of the aphakic eye for intraocular lens position prediction

15.28  Z. Khatib, S. Haldipurkar, P. Nagvekar, H. Dahake, Y. Trivedi, A. Patel, P. Kashelkar  INDIA
Comparison of three newer generation freely available intraocular lens power calculation formulae across all axial lengths

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

15.40  J. Fernández, M. RodríguezVallejo, J. Martínez, A. Tauste, D. Piñero  SPAIN
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

15.46  M. Tsessler, D. Zadok, D. Smadja, Y. Weill, E. Gelman, A. Abulafia  ISRAEL
Biometric characteristics of Israeli candidates for cataract surgery

15.52  Discussion

16.00  End of session
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. Dadghanji, 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. Reinstein, 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
TUESDAY 17 SEPTEMBER

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

14.00 S. Poh, Y. Tham, E. Fenwick, W. Dai, M. Chee, T. Wong, C. Cheng SINGAPORE
Association between macular thickness and visual function in healthy individuals: the Singapore Epidemiology of Eye Diseases (SEED) study

14.06 M. Ahad, M. Al Amro, A. Al Qarni, S. Al Swailem SAUDI ARABIA
Risk of microbial keratitis following corneal collagen cross-linking for corneal ectasia

14.12 D. Ulusoy, E. Ulusoy, Z. Duru, A. Çiçek TURKEY
Evaluation of corneal morphology in patient with hemifacial spasm

14.18 Discussion

14.30 M. El Zarif, J. Alió, J. Alió Del Barrio SPAIN
Corneal stroma regeneration with cellular therapy: confocal study

14.36 A. Gad, K. Muhamed EGYPT
One-year evaluation of clinical and immunological efficacy and safety of sublingual vs subcutaneous allergen immunotherapy in allergic conjunctivitis

14.42 C. Mastromonaco, M. Balazsi, D. Rao, R. Nojiri, T. Figueiredo, N. Sahib, M. Burnier CANADA
Histopathological software analysis of the trabecular meshwork and corneal endothelium between anterior and posterior chamber intraocular lenses in donor eyes

14.48 Discussion

15.00 J. Craig, A. Xue, M. Wang, S. Ormonde NEW ZEALAND
Cumulative benefits of intense regulated pulsed light therapy for Meibomian gland dysfunction identified in a double-masked randomised controlled clinical trial

15.06 T. Wong, C. Wong, B. Czarny, B. Metsalaar, G. Storm SINGAPORE
Evaluation of a liposomal steroid sustained drug

15.12 W. Shihadeh, M. Khalil JORDAN
Bilateral total iris atrophy and refractory glaucoma following cosmetic artificial iris implants

15.18 Y. Buys, D. Mathew, B. McKay, A. Basilious, A. Belkin, G. Trope CANADA
Microinvasive glaucoma surgery: compliance with the World Glaucoma Association Guidelines on Design and Reporting of Glaucoma Surgical Trials

15.24 Discussion

15.30 I. Bahar, Y. Yassur, G. Adler ISRAEL
Does postoperative self-debriefing affect the learning curve of residents’ cataract surgery?

15.36 C. Martin Reyes, K. Dalrymple, P. Gomez Borrero SPAIN
Exploring interprofessional collaboration and learning between ophthalmologists and managers in a private Spanish institution in order to make grounded recommendations for improvement

15.42 M. Lefebvre, C. Le Pape, F. Mouriaux FRANCE
Management of children’s ocular disorders during paediatric consultations

15.48 S. Alenezi, A. Alfawaz, A. Al Owaiser, S. Althiabi, K. Tabbara SAUDI ARABIA
Assessment of ophthalmology residency programs in Saudi Arabia: a trainee-based survey

15.54 Discussion

16.00 End of session
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. Martinez SPAIN, M. Cabanás SPAIN
West 1

IC117 Complications in LASIK: prevention and management (B)
J. Vryghem BELGIUM, M. Assouline FRANCE, G. Sallet BELGIUM, A. Kanellopoulos GREECE, G. Pamela USA
West 2

IC118 ReLEx SMILE tips and pearls for curious beginners (B)
D. Breyer GERMANY, L. Kiraly GERMANY, W. Sekundo GERMANY, R. Wiltfang GERMANY
West 3

IC119 Descemet’s membrane endothelial keratoplasty challenges (A)
West 4

IC120 The transition from cataract surgery to refractive cataract surgery (A)
West 5

IC121 Updates on ocular inflammation for the cataract and refractive surgeon (I)
West 6

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

Corneal cross-linking for progressive keratoconus: 10-year outcomes

Descemet’s membrane endothelial keratoplasty (DMEK) in infants with congenital endothelial dysfunction: intraoperative OCT-assisted surgery

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

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

14.00 – 15.00

INSTRUCTIONAL COURSE

IC122 How to get to #1 in your market (I)
D. Evans USA
West 7

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

Handouts available at www.escrs.org
TUESDAY 17 SEPTEMBER

16.30 - 18.00

FREE PAPER SESSION  YO

New IOL Optic Design

Free Paper Forum: Podium 1

Chairperson: R. Packard  UK

Co-Chairperson: C. Albou-Ganem  FRANCE

16.30  D. Tognetto, R. Giglio, R. Merli, G. Veroi, A. Beccastrini, C. De Giacinto  ITALY
Visual outcomes of an innovative monofocal intraocular lens with modified optical profile: a randomised controlled clinical study

16.36  B. Dick, F. Hengerer, S. Srinivasan, A. Cummings  GERMANY
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

16.42  H. Uy, C. de Lespinay  PHILIPPINES
One year refractive outcomes after enhancement by optic exchange among eyes that received a multicomponent intraocular lens

16.48  U. Devgan, T. Kohnen, E. Donnenfeld, K. Solomon, S. Garg, R. BragaMele  USA
Dual-optic curvature-changing modular design presbyopic IOL

16.54  T. Kohnen, E. Donnenfeld, K. Solomon  GERMANY
Visual outcomes in patients implanted with a new modular two piece curvature-changing fluid-optic intraocular lens

17.00  Discussion

17.08  R. Zaldivar  ARGENTINA
Using small-aperture optics to treat post corneal refractive surgery patients with cataracts

17.14  S. Schmickler, O. Carsburg  GERMANY
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  AUSTRALIA
Moderate monovision vs mini-monovision with a small-aperture intraocular lens: visual outcomes and patient satisfaction

17.31  C. Moshegov  AUSTRALIA
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  USA
Evaluation of the biocompatibility of an IOL embedded with an intraocular pressure sensor in the rabbit model

17.43  A. Janekova, R. Zugar, J. Pasta, M. Janek  CZECH REPUBLIC
Clinical experience with Tetraflex HD IOL

17.49  Discussion

18.00  End of session
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

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

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
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

16.30 C. Lwowski, M. Herzog, K. Petermann, E. Hemkepiller, R. Forster, M. Böhm, T. Kohnen GERMANY
Safety and efficiency of a presbyopia-correcting bifocal intracorneal implant in emmetropic patients: 6 month results

16.36 G. Benozzi, J. Leiro, S. Facal, C. Perez, B. Orman ARGENTINA
Innovative pharmacological treatment for presbyopia: Benozzi’s method

16.42 Discussion

16.44 D. Breyer, H. Kaymak, K. Klabe, P. Hagen, L. Beckers, F. Kretz, G. Auffarth GERMANY
Time-averaged long-term outcomes after small incision lenticule extraction for myopia correction: comparison with femtosecond laser-assisted LASIK

16.50 K. Kudlu, V. Jain, H. Vokuda, S. Girish INDIA
Laser-blended vision correction in emmetropic presbyopes

16.56 A. Stuart, D. Reinstein, G. Carp, T. Archer, R. Vida UK
PRESBYOND laser blended vision in commercial and military pilots requiring class 1 medical certification

17.02 S. Anisimova, S. Anisimov, S. Semyonov, I. Novak, L. Fastovtsova RUSSIA
Inclusion criteria and long-term results of bilateral presbyopia correction by SUPRACOR method

17.08 S. Rowen, A. Hipsley, J. Mehta, Y. Liu, B. Hall USA
Optimisation of analysis of scleral micropores in presbyopes after laser scleral microporation using ocular coherence tomography (OCT)

17.14 S. Shah, A. Hipsley, M. Jackson, R. Ang, L. Gualdi, M. Rau UK
Accommodative changes and visual outcomes after laser scleral microporation

17.20 T. Seiler, M. Jankov, T. Seiler SWITZERLAND
Lenticule intrastromal keratoplasty (LIKE) for presbyopia

17.26 Discussion

17.34 L. Schwarzenbacher, D. Schartmueller, V. Roeggli, C. Leydolt, R. Menapace AUSTRIA
Arcuate keratotomy in patients with astigmatism up to 3 diopters using low-pulse energy femtosecond laser: three month results

17.40 A. Osman, A. El Zarga, M. Gamal, M. Khafagy, I. Osman EGYPT
Vector analysis of femtosecond laser-assisted arcuate keratotomy for post-keratoplasty astigmatic correction

17.46 M. El Naggar, A. Saied, W. El Shaer EGYPT
Efficacy and safety of femtosecond laser arcuate keratotomy for correction of mixed astigmatism: a six month follow-up

17.52 Discussion

18.00 End of session
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-PROMS 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

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. Hinrichs, M. Ruiß, 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

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. Nagyekar, 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

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. Debellemenière (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
‘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

08.30 – 10.45
‘BEST OF THE BEST’ REVIEW 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**

**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. Dzhapparkhanova, 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 Claron 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 modeling of delimited calcification of hydrophilic intraocular lenses using intraocular air or gas

K. Kawal **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. Paliotta, 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 Claron 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. Altitas, 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. Arzoalixhiu, N. Poloshka-Arzoalixhiu, H. Gashi, I. Jurik **KOSOVO**

Safety and efficiency of phaco surgery in various types of post-uveitic cataract

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. Delia Maggiore, A. Mannini, P. Martinelli, S. Murri, M. Romagnoli, A. Vento **ITALY**  
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O. Abdalrahman, A. Rodríguez, J. Alió SPAIN
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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. Ulrich, M. Ruiss, J. Hienert, N. Hirnschall, O. Findl AUSTRIA
Anterior chamber depth (ACD) variability between the Clareon and AcrySof IOL: a randomised trial

Prezision 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)

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. Győry HUNGARY
Long-term evaluation of contrast sensitivity prior to and after the implantation of the Liberty 677MY trifocal intraocular lens

F. Helvacioglu, E. Sunay, S. Kaya Unsal, O. Kavalcioglu, E. Bulut TURKEY
Postoperative visual performance with a bifocal and trifocal diffractive intraocular lens

M. Jaworski, P. Jaworski, D. Wyględowska-Promienska POLAND
Spectacle independence and assessment of patient satisfaction after implantation of Oculentis multifocal lenses

I. Kaiser, R. Lucchesi, 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

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. Faïzi, E. Mulliez, S. Ghekiere BELGIUM
Patient satisfaction after bilateral FLACS and sinusoidal trifocal EDOF multifocal IOL implantation

M. Bohač, 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 lenses: 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
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 biopics 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

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-Warchol, 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 Symfony 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 Symfony, an extended-range-of-vision intraocular lens (IOL) in post-refractive and non-refractive patients undergoing cataract extraction

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. Kouli, 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. Gertner, 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
Traumatic aniridia of 360° in a patient with multifocal intraocular lens

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. Beliaikouski, N. Pazniak, I. Pashkin, E. Likhorad 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

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

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. Kolesnichenko, A. Pilon USA
Astigmatism correction in cataract surgery with new multifocal 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. Hirnschall, J. Hienert, M. Ruiß AUSTRIA
Comparison of visual performance of two diffractive trifocal intraocular lenses: a randomised controlled trial

C. Tatau, A. Dogaroiu, C. Tatau, 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 lens calculator for toric IOL implants

Quality of Vision Evaluation Techniques

F. Aghajani, A. Haghparast, 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. Abdolahian IRAN
Comparisons of spherical and vector analysis of astigmatism results of four refraction methods

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 Ravič, 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

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 lens exchange in young high hyperopia

S. Rehman, 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. Gerimi ALBANIA
Refractive lens exchange in young high hyperopia

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. Bohač, 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. Mirshshi 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 epithelial ingrowths after ReLEx SMILE and description of their destruction by Nd:YAG laser

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. Rosiday, S. Wahba, A. Elawamry, K. Naguil 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. Okonomou, 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. Wylegala POLAND
Reproducibility, repeatability and agreement of corneal topography measured by Revo NX, Galilei G6 and Casia 2
Refractive Surgery Practice Styles

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?

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. Helvacioglu, 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
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- Glaucoma
- Intraocular Refractive Surgery
- Symposia
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VIDEO AWARDS SESSION

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14.00 – 16.00  
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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  
Reconstruction of superficial ocular eroding lesion with autologous fibrin membrane and platelet-rich plasma (PRP)

A. Agarwal  
Couching

A. Agarwal  
Ocular masquerades

A. Agarwal  
Pinhole pupilloplasty

A. Agarwal  
When aqueous meets vitreous

A. Agrawal, J. Reddy  
Managing post-RK hyperopia: close the cuts to clear the clouds!

M. Ahmad  
Ophthalmology in the medieval Middle East

P. Ahuja, R. Shetty, Z. Dadachanji  
Toolbox to fix imperfect corneas

A. Albuainain, B. Albloushi, M. Aljindan  
Surgical removal of inadvertent intralenticular sustained-release dexamethasone implant (Ozurdex) and implant one-piece PC IOL

H. Alrabiah, J. Alió  
Selective laser capsulotomy with CAPSULaser in normal and special cases

A. Alsharif  
Four types of cataract in one eye

N. Anisimova, N. Shilova, B. Malyugin  
Prolene 9-0 suture breakage after cow-hitch suture fixation of the modified CTR

Sutureless piggyback intracapsular artificial iris implantation: a novel technique to address aniridia

R. Asaria, Z. Elhousseini  
A novel way of artificial iris scleral fixation

R. Badaro  
The post-H-LASIK conundrum

S. Bajimaya, S. Ruit, A. Crandall  
Four-point Gore-Tex suture scleral fixation of preloaded hydrophobic intraocular lens from Nepal: a Tilganga foldable tetra SFIOL innovation

C. Balachandran  
The DMEK kite

N. Balakrishnan, R. Shetty, S. Sethu, A. Ghosh  
Rituals to make photorefractive keratectomy (PRK) perfect

A. Balamoun  
Oplaths to make photorefractive keratectomy (PRK) perfect

A. Balamoun  
Risky, but worth it!

G. Balanikas, P. Oikonomidis  
Imaging and depiction in ophthalmology throughout the centuries

M. Balgos, J. Alió del Barrio  
Repeat Descemet’s membrane endothelial keratoplasty (DMEK) in a case of graft detachment

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  
Technique of sutureless intraocular lens exchange in a case of opacified hydrophilic lens

U. Behera, P. Thakur, A. Singh  
Bent haptic method of scleral fixation of intraocular lens: a new cost-effective technique

S. Belghmaidi, B. Soumia, H. Ibtissam, M. Abdeljalil  
Corneal examination: slit lamp biomicroscopy

F. Bellani, T. Jaeschke  
A case of traumatic cataract with severe zonular dialysis

S. Bhattacharjee  
Intraoperative miosis: B-HEX safe and easy pupil expander

S. Bhattacharjee  
Lost a battle to win the war

M. Bhogal, V. Ho  
A tale of two eyes: identifying and managing intraoperative aqueous misdirection

A. Biala, J. Reddy  
Salvaging stuck Zepto

H. Bolu, M. Fece, C. Kucukerdonmez  
23-gauge trocar-assisted transscleral IOL implantation technique
VIDEO COMPETITION

H. Bolu, M. Fece TURKEY
Alcohol-assisted PRK+MMC

S. Brar, S. Ganesh, R. Arra, K. Srirprakash 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. Onodrova CZECH REPUBLIC
Cataract surgery in case of damaged or lost capsular bag

J. Cendelin, L. Hecova, S. Rusnak, N. Onodrova 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

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
Microspheroptaphia: 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. Shaq, B. Colizzi, G. Cisa Asinari di Gresy, A. Mezza UK
Successful combined complex anterior segment repair with Descemet’s stripping automated endothelial keratoplasty (DSAEK)

K. Doctor, B. Shah, A. Kulkarni, S. Srivastava INDIA
Tinkles for capsular wrinkles: demystifying zonular support

D. Dragnea, S. Ní Dhubhghaill, L. Lavy, V. Bourgonje, L. Dapena, P. Oellerich, G. Melles ROMANIA
In vitro evaluation of the feasibility of slit-lamp Nd:YAG laser descemetorhexis

K. Droutsas, 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. Iu, 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. García-Garcia SPAIN
Large bubble behind capsular bag during a phaco: pars plana vitrectomy trocar as solution

M. Ghabra, Z. Elhouasseini, H. Ghabra UK
Capsulotomy creation using nano-pulse technique in microspherophakia with in-the-bag IOL fixation
M. Ghoreishi, M. Rafat, N. Lagali **IRAN**
Refractive correction by intracorneal implantation of a synthetic collagen artificial cornea

P. Gireesh, V. Vellam, N. Sachiappan **INDIA**
‘Piggyback’ phacoemulsification in morganian, hypernepatic, 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. Mukherjee, 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. Barrajón 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**
Management of varied presentations of post-traumatic 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, S. 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. Aghamollai **IRAN**
Ring-assisted limbal creation surgery (RALCS) for treatment of advanced keratoconus

M. João, J. Costa, B. Brito, M. Domingues **PORTUGAL**
Duet surgery in a nanophthalmic patient

D. Johnson, A. Duimering, A. Railhan, J. Leroux **CANADA**
Partial LASIK flap amputation for treatment of recurrent epitehal 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 anterior corneal dystrophies (ACD) with phototherapeutic topo-guided keratectomy (tPTK) combined with CXL

A. Kanellopoulos **GREECE**
Management of anterior corneal dystrophies (ACD) with phototherapeutic topo-guided keratectomy (tPTK): long-term refractive and corneal imaging evaluation

N. Kapshuk, L. Khristych **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**
Side-viewing camera with Alcon Centurion phacoemulsification machine

P. Khamar, R. Shetty, P. Ahuja **INDIA**
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, M. 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
Corneat 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 prostheses 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–Zavalia 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. Aghamolaei, S. Adnanee Iran
Plasma-assisted non-invasive surgery (PANIS method)

N. Nizamani, A. Khan UK
Novel capsulorhexis technique using 30-gauge needle in fibroed anterior capsule

J. Novak Czech Republic
Secondary cataract prevention: a combi-method

M. Obukhova Ukraine
Cataract in art
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. Rekas, 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. Sii **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 descemetocele 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. Chokesuwattanasuk **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. Tzamalis, R. Vinciguerra, V. Romano, E. Arbabi, G. Wojcik, N. Zlakas, 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. Alló **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. Ziae **UK**
Descemet’s membrane (DM) macro-perforation: the curse of the type-II bubble
ESCRRS Membership

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**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. Bhuuto, 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. Bhuuto, 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. Lajginhas, 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. Mourtappa** *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. Mtsiou, 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 García, J. Puig Galy, L. Bisbe Lopez** *SPAIN*
Scleral patch, anniotic 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 Sarmento, 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. Panakeridou, 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. Ramirez Fe, R. Jiménez Escrable** *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. Santaealla 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

Eye pledge procedure

**C. Yoon, Y. Jang, M. Kim** *SOUTH KOREA*
Pearls to overcome challenging Descemet’s membrane endothelial keratoplasty (DMEK) in Asian eyes
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
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 posterior segment and UBM techniques with equipment provided by the following manufacturers: Keeler, Quantel Medical and Sonomed Escalon.

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 speed 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

Monday 16 September

E10 09.00 – 11.00  Optical coherence tomography for ophthalmic professionals  Free  South 1

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

Faculty

M. Acebal  SPAIN  E07
N. Astyrakakis  GREECE  E02, E04
V. Diakonis  GREECE  E02
P. Doumanidis  GREECE  E02
M. Kynigopoulos  SWITZERLAND  E03, E05
A. Lee  UK  E08
D. Liakopoulos  GREECE  E02
C. Lledo  SPAIN  E07
I. Pallikaris  GREECE  E02
S. Panagopoulou  GREECE  E04
D. Portaliou  GREECE  E02
A. Santos  PORTUGAL  E10
L. Tomlin  UK  E09
I. Vastardis  SWITZERLAND  E03, E05
R. Waldron  USA  E01, E06

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

www.escrs.org
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

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.

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: ESCR19
Password: AerieEU19

Join the Conversation in Paris
#ESCR19
Stay connected to ESCRS during the congress by following us on

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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.
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 by Johnson-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
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

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

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 Transscialeral 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

Sponsored by Alcon

Challenging the Standard for Monofocal IOL
South 2
Moderator: D. Tognetto ITALY

Sponsored by Johnson & Johnson Vision

Sulcoflex Trifocal: A New Opportunity for your Refractive Patients
West 2
Moderator: M. Amon AUSTRIA

Sponsored by Rayner

New Gold Standards in OCT: 9mm Epithelial Thickness Mapping & AngioAnalytics OCTA Metrics
West 6
Moderator: M. Puech FRANCE

Sponsored by Optovue
**SUNDAY 15 SEPTEMBER**

**Lunchtime Symposia**
13.00 – 14.00

**SMILE - Equipped for the Future**
South 3  
Moderator: D. Reinstein UK

*Sponsored by ZEISS*

**What Do You Expect From Glaucoma Surgery?**
South 4  
Moderator: I. Stalmans BELGIUM

*Sponsored by Santen*

**Unique Brilliance: New IOL-Family with Segmented Optics & Innovative Hybrid-hydrophobic Material**
West 8  
Moderator: J. Alió SPAIN

*Sponsored by TELEON*

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**SUNDAY 15 SEPTEMBER**

**Evening Symposium to take place in Palais Brongniart**
19.00 – 20.00

**Buses will depart at 18.00 from the Congress Centre**

**2 Minutes to Enhanced OR Experience and Patient Selection! Debating the Topics Most Important to your Practice**

Moderator: A. Brézin FRANCE  
Co-Moderators: S. Al-Messabi UAE  
C. Bala AUSTRALIA

*Sponsored by Alcon*

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**MONDAY 16 SEPTEMBER**

**Lunchtime Symposia**
13.00 – 14.00

**Post-Cataract Infections: Prevention, Management and the Future**
West 3  
Moderator: F. Bandello ITALY

*Sponsored by ntc Santen*

**Partnering to Drive Efficiency in your Practice Through Alcon Services and Solutions**
South 3  
Moderator: M. Guarro SPAIN

*Sponsored by Alcon*

**Innovative Solutions for Presbyopia and Refractive Errors**
West 6  
Moderators: P. Stodulka CZECH REPUBLIC  
R. Shetty INDIA

*Sponsored by care Group*

**ORBIS International Symposium: Eye Care for Refugees**
West 7  
Moderator: R. Walters UK

*Sponsored by ORBIS*
MONDAY 16 SEPTEMBER
Lunchtime Symposia
13.00 – 14.00
SCHWIND Femtosecond Laser for Lenticule Extraction and Flap Creation
West 2
Sponsored by

Presbyopia Correcting IOLs for Phakic and Pseudophakic Patients: Learning from Clinical Evidence
South 2
Moderator: S. Srinivasan UK
Sponsored by

Robotic Ultrafast Laser Cataract Photoemulsification
West 4
Moderator: S. Daya UK
Sponsored by

Optimising the Latest Medical Therapies and Modern MIGS for Glaucoma Cataract Patient
South 4
Moderators: P. Denis FRANCE
R. Bellucci ITALY
Independent medical education supported by:

MONDAY 16 SEPTEMBER
Evening Symposium
18.00 – 19.30
New Concept Monofocal IOL with Continuous Focus
West 1
Moderator: D. Spalton UK
Sponsored by

Presbyopia and Toric IOL Correction: Keys to Success with Multifocal and EDOF IOLs
North 4
Moderators: B. Cochener-Lamard FRANCE
O. Findl AUSTRIA
Independent medical education supported by:
Congress Centre & Exhibition
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| 13:00 – 13:15 | PanOptix®: how to maximize the benefits and visual outcomes in challenging cases – Francesco Carones (Italy) |
| 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
Sunday, 15 September | 19.00 – 20.00

Pick-up time from conference venue: 18.00

| 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) |

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Monday, 16 September | 13.00 – 14.00

| 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) |