



**European Glaucoma Society**  
Innovation, Education, Communication, Implementation



# 13<sup>th</sup> EGS Congress

**Florence, Italy**  
**19/22 May 2018**

[www.eugs.org](http://www.eugs.org)

Scientific Program



09.45-11.30

**Symposium of the Austrian, German and Swiss Groups**

**Room Leonardo**

From Germany  
Chairman: **Esther M. Hoffmann** (Germany)

**Case presentations by:**

- GS1.1** Kristina Spaniol (Germany)
- GS1.2** Susanne Hopf (Germany)
- GS1.3** Alexandra Anton (Germany)

From Switzerland  
Chairman: **Frances Meier-Gibbons** (Switzerland)

**Case presentations by:**

- GS1.4** Timothy Hamann (Switzerland)
- GS1.5** Marc Töteberg-Harms (Switzerland)
- GS1.6** René Hoehn (Switzerland)
- GS1.7** Delphine Bifrare (Switzerland)
- GS1.8** Luzia Mueller (Switzerland)
- GS1.9** Stephan Fraenkl (Switzerland)

From Austria  
Chairman: **Anton Hommer** (Austria)

**Case presentations by:**

- GS1.10** Markus Lenzhofer (Austria)
- GS1.11** Clemens Vass (Austria)
- GS1.12** Barbara Teuchner (Austria)

Saturday, 19 May 2018


09.45- 10.35	Symposium of the Italian Glaucoma Society	Room Michelangelo
	SIGLA Meeting Glaucoma: news from Italy	
GS2.1	Getting rid of eyedrops: is low power SLT a possible solution? Stefano Gandolfi (Italy), Silvia Babighian (Italy)	
GS2.2	Monitoring filtration bleb in the 21 <sup>st</sup> century Luca Agnifili (Italy), Leonardo Mastropasqua (Italy)	
GS2.3	Neuroimaging in glaucoma: new tools for a brain disease Carlo Nucci (Italy)	
GS2.4	In vivo evaluation of the outflow pathways : a new dye-based system Lucio Zeppa (Italy)	
10.40-11.30	Symposium of the Italian Association for Study of the Glaucoma	Room Michelangelo
	AISG Meeting Up to date of scientific research on glaucoma in Italy Secretary: Beatrice Brogliatti (Italy)	
	Panel Discussion	
GS3.1	Antonio Maria Fea (Italy)	
GS3.2	Michele Iester (Italy)	
GS3.3	Francesco Oddone (Italy)	
GS3.4	Luciano Quaranta (Italy)	
GS3.5	Ivano Riva (Italy)	
GS3.6	Teresa Rolle (Italy)	
GS3.7	Luca Rossetti (Italy)	



12.00 - 12.30  
Main Auditorium  
Congress Welcome &  
EGS Showcase

12.30 - 14.00	Main Session 1	Main Auditorium
	<b>Trabeculectomy revisited: 50 years of history</b> Chairmen: <b>Alain Bron</b> (France), <b>Ingeborg Stalmans</b> (Belgium) Facilitators: <b>Julián García-Feijoo</b> (Spain), <b>Norbert Pfeiffer</b> (Germany)	
<b>12.30</b> <b>MS1.01</b>	The road to trabeculectomy <b>Franz Grehn</b> (Germany)	
<b>12.48</b> <b>MS1.02</b>	The birth, the evolution <b>Carlo Enrico Traverso</b> (Italy)	
<b>13.06</b> <b>MS1.03</b>	What is the evidence? <b>Anthony King</b> (United Kingdom)	
<b>13.24</b> <b>MS1.014</b>	The rivals: NPGS <b>Gordana Sunaric Mégevand</b> (Switzerland)	
<b>13.42</b> <b>MS1.05</b>	The rivals: tubes <b>Keith Barton</b> (United Kingdom)	
	and for the rival MIGS ...stay tuned until Tuesday!	

Saturday, 19 May 2018

14.15 - 15.15	<b>C1.01 - Instructional Course</b>	<b>Room Leonardo</b>
	<b>Clinical skills: OCT</b> Course Director: <b>José María Martínez de la Casa</b> (Spain) Course Moderator: <b>Jaromir Wasyluk</b> (Poland) Course Speakers: <b>Balwantray Chauhan</b> (Canada), <b>Donald Charles Hood</b> (USA)	
14.15 - 15.15	<b>C1.02 - Instructional Course</b>	<b>Room Cimabue</b>
	<b>Managing your NTG clinic</b> Course Director: <b>Ingrida Januleviciene</b> (Lithuania) Course Moderator: <b>Cornelia Hirn</b> (Switzerland) Course Speakers: <b>Ingrida Januleviciene</b> (Lithuania), <b>Miriam Kolko</b> (Denmark), <b>Loreta Kuzmiene</b> (Lithuania)	
14.15 - 15.15	<b>C1.03 - Instructional Course</b>	<b>Room Giotto</b>
	<b>Pros&amp;cons: Combined surgery</b> Course Director: <b>John Salmon</b> (United Kingdom) Course Moderator: <b>Luis Abegão Pinto</b> (Portugal) Course Speakers: <b>Leon Au</b> (United Kingdom), <b>John Salmon</b> (United Kingdom)	
14.15 - 15.15	<b>C1.04 - Instructional Course</b>	<b>Room Michelangelo</b>
	<b>Surgery: Critical appraisal of MIGS evidence</b> Course Director: <b>Antonio Maria Fea</b> (Italy) Course Moderator: <b>Gokulan Ratnarajan</b> (United Kingdom) Course Speakers: <b>Norbert Pfeiffer</b> (Germany), <b>Luciano Quaranta</b> (Italy), <b>Herbert Reitsamer</b> (Austria)	
14.15 - 15.15	<b>C1.05 - Instructional Course</b>	<b>Room Donatello</b>
	 <b>EGS Curriculum: Critical literature reading</b> Course Director: <b>Richard Wormald</b> (United Kingdom) Course Moderator: <b>Francesco Oddone</b> (Italy) Course Speakers: <b>Gianni Virgili</b> (Italy), <b>Richard Wormald</b> (United Kingdom)	
14.15 - 15.15	<b>C1.06 - Instructional Course</b>	<b>Room Vasari</b>
	<b>EGS Scientific Committee: How to write grants</b> Course Director: <b>Maria Francesca Cordeiro</b> (United Kingdom) Course Moderator: <b>Manuele Michelessi</b> (Italy) Course Speakers: <b>Maria Francesca Cordeiro</b> (United Kingdom), <b>Manuele Michelessi</b> (Italy), <b>Leopold Schmetterer</b> (Austria)	



Saturday, 19 May 2018

19 May 2018

**14.15 - 15.15 C1.07 - Instructional Course Room Brunelleschi**

**EGS Leadership: Communication skills**

Course Director: **Sean Blair** (United Kingdom)

Course Moderator: **Joao Barbosa Breda** (Belgium)

Course Speakers: **Jessica Ball** (United Kingdom), **Sean Blair** (United Kingdom),  
**Frances Meier-Gibbons** (Switzerland)

**14.15 - 15.15 C1.08 - Instructional Course Room Botticelli**

**Surgery: Non-penetrating surgeries**

Course Director: **Milko Iliev** (Switzerland)

Course Moderator: **Kaweh Mansouri** (Switzerland)

Course Speakers: **Stefano Gandolfi** (Italy), **Milko Iliev** (Switzerland),  
**Yves Lachkar** (France)

**15.30 - 17.00 Main Session 2 Main Auditorium**

**Optic nerve in focus**

Chairmen: **Maria Francesca Cordeiro** (United Kingdom),  
**Nicholas Strouthidis** (United Kingdom)

Facilitators: **Joseph Caprioli** (USA), **Selim Orgül** (Switzerland)

**15.30  
MS2.01**

Optic nerve head biomechanics and glaucoma pathogenesis  
**Michael Girard** (Singapore)

**15.48  
MS2.02**

Vascular perfusion and susceptibility to damage  
**Leopold Schmetterer** (Austria)

**16.06  
MS2.03**

Energetics and optic nerve endurance  
**Colm O'Brien** (Ireland)

**16.24  
MS2.04**

Rescuing the optic nerve: current state and perspectives  
**Neeru Gupta** (Canada)

**16.42  
MS2.05**

Optic nerve regeneration. Is it possible?  
**Keith Martin** (United Kingdom)

**17.10 - 18.30 Educational Partner Symposium Main Auditorium**

*See page 77 for details*

**18.30 - 19.30  
Exhibition Area  
Welcome Reception**



Sunday, 20 May 2018

07.30 - 08.30	Industry Parallel Symposia	Various Rooms
<i>See pages 77-78 for details</i>		
08.30 - 10.00	Main Session 3	Main Auditorium
<p><b>Which patients are really at risk?</b>            Chairmen: <b>Anders Heijl</b> (Sweden), <b>Fotis Topouzis</b> (Greece)            Facilitators: <b>Francesco Oddone</b> (Italy), <b>Ananth C. Viswanathan</b> (United Kingdom)</p>		
08.30 MS3.01	Predictive and prognostic risk factors: weighing and decision making <b>Ivan Goldberg</b> (Australia)	
08.48 MS3.02	Risk calculator for progression: tools or toys? <b>Jeffrey M. Liebmann</b> (USA)	
09.06 MS3.03	Glaucoma-related lifetime risk of blindness <b>Rupert Bourne</b> (United Kingdom)	
09.24 MS3.04	Societal risk factors and health disparities <b>M. Roy Wilson</b> (USA)	
09.42 MS3.05	Genetic risk: can we translate in the clinic? <b>Tin Aung</b> (Singapore)	
10.00 - 10.30	Poster Session 1	Poster Area
<p><b>Epidemiology, Health economics, Visual disability, QOL, Pathogenesis</b>            Chairmen: <b>Panayiota Founti</b> (United Kingdom), <b>Stefano Gandolfi</b> (Italy),  <b>Anja Tuulonen</b> (Finland)</p>		
10.30 - 11.45	Main Session 4	Main Auditorium
<p><b>The diagnosis</b>            Chairmen: <b>Augusto Azuara-Blanco</b> (United Kingdom), <b>Hans G. Lemij</b> (Netherlands)            Facilitator: <b>David Garway-Heath</b> (United Kingdom), <b>Ivan Goldberg</b> (Australia)</p>		
10.30 MS4.01	Making the diagnosis in the 21 <sup>st</sup> Century <b>Donald Charles Hood</b> (USA)	
10.45 MS4.02	Management of glaucoma suspects (definition and cost effectiveness) <b>Francesco Oddone</b> (Italy)	
11.00 MS4.03	Efficient glaucoma case-finding <b>Panayiota Founti</b> (United Kingdom)	
11.15 MS4.04	Stage at diagnosis and long-term outcomes <b>Anders Heijl</b> (Sweden)	
11.30 MS4.05	Can population screening be cost-effective? <b>Anja Tuulonen</b> (Finland)	
12.00 - 13.30	Educational Partner Symposium	Main Auditorium
<i>See page 78 for details</i>		



**13.45 - 14.45 C2.01 - Instructional Course Room Vasari**



**Clinical skills: Gonioscopy**  
 Course Director: **Anton Hommer** (Austria)  
 Course Moderator: **Philippe Adriaan Kestelyn** (Belgium)  
 Course Speakers: **Christoph Faschinger** (Austria), **Anton Hommer** (Austria),  
**Joerg Stuermer** (Switzerland)

**13.45 - 14.45 C2.02 - Instructional Course Room Giotto**

**Managing your exfoliative glaucoma patients in the clinic**  
 (organized by EGS Exfoliation SIG)  
 Course Director: **Gábor Holló** (Hungary)  
 Course Moderator: **Gauti Johannesson** (Sweden)  
 Course Speakers: **Murat Irkec** (Turkey), **Andreas Katsanos** (Greece),  
**Anastasios G.P. Konstas** (Greece)

**13.45 - 14.45 C2.03 - Instructional Course Room Brunelleschi**



**Pros&cons: Progression: VF or OCT**  
 Course Director: **Michele Iester** (Italy)  
 Course Moderator: **Christoph Hirneiss** (Germany)  
 Course Speakers: **Antonio Ferreras** (Spain), **Michele Iester** (Italy),  
**Kaweh Mansouri** (Switzerland)

**13.45 - 14.45 C2.04 - Instructional Course Room Leonardo**

**Surgery: Managing complications after long tubes**  
 Course Director: **Keith Barton** (United Kingdom)  
 Course Moderator: **Efthymios Karmiris** (Greece)  
 Course Speakers: **Keith Barton** (United Kingdom), **Susana Duch** (Spain),  
**Efthymios Karmiris** (Greece)

**13.45 - 14.45 C2.05 - Instructional Course Room Michelangelo**

**Surgery: Which surgery for which indication?**  
 Course Director: **Ingeborg Stalmans** (Belgium)  
 Course Moderator: **Esther M. Hoffmann** (Germany)  
 Course Speakers: **Esther M. Hoffmann** (Germany), **Maria Papadopoulos** (United Kingdom),  
**Luis Abegão Pinto** (Portugal)


**13.45 - 14.45 C2.06 - Instructional Course Room Cimabue**



**EGS leadership: The skills required for leadership**  
 (Organized by EGS Health Economics SIG)  
 Course Director: **Anja Tuulonen** (Finland)  
 Course Moderator: **John Somner** (United Kingdom)  
 Course Speakers: **Rupert Bourne** (United Kingdom), **John Somner** (United Kingdom),  
**Anja Tuulonen** (Finland)



Sunday, 20 May 2018

13.45 - 14.45	<b>C2.07 - Instructional Course</b>	<b>Room Donatello</b>
<p><b>EGS Scientific Committee: EMA recommendations for clinical trial design</b>            Course Director: <b>Luca Rossetti</b> (Italy)            Course Moderator: <b>Giovanni Montesano</b> (United Kingdom)            Course Speakers: <b>Gerhard Garhofer</b> (Austria), <b>Luca Rossetti</b> (Italy)</p>		
13.45 - 14.45	<b>C2.08 - Instructional Course</b>	<b>Room Botticelli</b>
<p><b>A dive into clinic: a practical approach to medical treatment</b>            Course Director: <b>Carroll Webers</b> (Netherlands)            Course Moderator: <b>Nishani Amerasinghe</b> (United Kingdom)            Course Speakers: <b>Henny Beckers</b> (Netherlands), <b>Frances Meier-Gibbons</b> (Switzerland)  <b>Carroll Webers</b> (Netherlands)</p>		
14.45 - 15.15	<b>Poster Session 2</b>	<b>Poster Area</b>
<p><b>Diagnosis</b>            Chairmen: <b>Gábor Holló</b> (Hungary), <b>Michele Iester</b> (Italy), <b>Ingrida Januleviciene</b> (Lithuania)</p>		
15.15 - 16.15	<b>C3.01 - Instructional Course</b>	<b>Room Botticelli</b>
	<p><b>Clinical skills: VF (basic)</b>            Course Director: <b>Anders Heijl</b> (Sweden)            Course Moderator: <b>Marta Pazos</b> (Spain)            Course Speakers: <b>Boel Bengtsson</b> (Sweden), <b>Anders Heijl</b> (Sweden)</p>	
15.15 - 16.15	<b>C3.02 - Instructional Course</b>	<b>Room Vasari</b>
<p><b>Managing your glaucoma suspects/OHT</b>            Course Director: <b>Barbara Teuchner</b> (Austria)            Course Moderator: <b>Frances Meier-Gibbons</b> (Switzerland)            Course Speakers: <b>Frances Meier-Gibbons</b> (Switzerland), <b>Barbara Teuchner</b> (Austria)</p>		
15.15 - 16.15	<b>C3.03 - Instructional Course</b>	<b>Room Giotto</b>
<p><b>Pros&amp;cons: Laser vs medication</b>            Course Director: <b>Gus Gazzard</b> (United Kingdom)            Course Moderator: <b>Evelien Vandewalle</b> (Belgium)            Course Speakers: <b>Barbara Cvenkel</b> (Slovenia), <b>Gus Gazzard</b> (United Kingdom),  <b>Eleni Nikita</b> (United Kingdom)</p>		



**15.15 - 16.15 C3.04 - Instructional Course Room Donatello**



**Tips&tricks: How to make the most out of your patient's OCT (expert)**  
 Course Director: **Alfonso Antón López** (Spain)  
 Course Moderator: **Eduardo Maria Normando** (United Kingdom)  
 Course Speakers: **Alfonso Antón López** (Spain), **Eduardo Maria Normando** (United Kingdom),  
**José María Martínez de la Casa** (Spain)

**15.15 - 16.15 C3.05 - Instructional Course Room Cimabue**

**Surgery: Managing complications after MIGS**  
 Course Director: **Leon Au** (United Kingdom)  
 Course Moderator: **Mario Economou** (Sweden)  
 Course Speakers: **Leon Au** (United Kingdom), **Antonio Maria Fea** (Italy),  
**Marc Töteberg-Harms** (Switzerland)

**15.15 - 16.15 C3.06 - Instructional Course Room Leonardo**

**Surgery: Trabeculectomy**  
 Course Director: **Peng Tee Khaw** (United Kingdom)  
 Course Moderator: **Verena Prokosch-Willing** (Germany)  
 Course Speakers: **Peng Tee Khaw** (United Kingdom), **Anthony King** (United Kingdom)

**15.15 - 16.15 C3.07 - Instructional Course Room Brunelleschi**



**EGS Curriculum: Risk factors**  
 Course Director: **Selim Orgül** (Switzerland)  
 Course Moderator: **Jon Klok Slettedal** (Norway)  
 Course Speakers: **Gábor Holló** (Hungary), **Franz Grus** (Germany)

**15.15 - 16.15 C3.08 - Instructional Course Room Michelangelo**

**Management of post-operative complications of glaucoma surgery: what you always wanted to do at the slit lamp**  
 Course Director: **Carlo Enrico Traverso** (Italy)  
 Course Moderator: **Alessandro Bagnis** (Italy)  
 Course Speakers: **Andrew McNaught** (United Kingdom), **Carlo Enrico Traverso** (Italy)

**16.30 - 17.30 Industry Parallel Symposia Various Rooms**

See pages 79-82 for details

Monday, 21 May 2018

**08:00 - 08.30 EGS General Assembly Main Auditorium**

**08.30 - 10.00 Main Session 5 Main Auditorium**

**The Follow-up**

Chairmen: **Francisco Javier Goñi** (Spain), **Ananth C. Viswanathan** (United Kingdom)  
Facilitators: **Augusto Azuara-Blanco** (United Kingdom), **Pradeep Y. Ramulu** (USA)

**08.30 MS5.01** OCT vs visual field in measuring progression  
**Balwantray Chauhan** (Canada)

**08.48 MS5.02** Imaging end-points: from trials to clinical practice  
**David Garway-Heath** (United Kingdom)

**09.06 MS5.03** Tolerable rates of progression  
**Fotis Topouzis** (Greece)

**09.24 MS5.04** Visual field improvement in glaucoma: is it possible?  
**Joseph Caprioli** (USA)

**09.42 MS5.05** Telemedicine and home monitoring in glaucoma care  
**Lama Al-Aswad** (USA)

**10.00 - 10.30 Poster Session 3 Poster Area**

**Follow-up**

Chairmen: **Anthony Khawaja** (United Kingdom), **Hans G. Lemij** (Netherlands),  
**Ananth C. Viswanathan** (United Kingdom)

**10.30 - 11.45 Main Session 6 Main Auditorium**

**Patient-centred management - EGS/AGS Symposium**

Chairmen: **Stefano Gandolfi** (Italy), **Kuldev Singh** (USA)  
Facilitators: **Alain Bron** (France), **Jeffrey M. Liebmann** (USA)

**10.30 MS6.01** Patients' experience of glaucoma management  
**Carol Bronze** (United Kingdom)

**10.45 MS6.02** Doctors' experience of glaucoma management  
**David S. Friedman** (USA)

**11.00 MS6.03** How does glaucoma impact daily life?  
**Pradeep Y. Ramulu** (USA)

**11.15 MS6.04** Patient-vs doctor-vs health care-centred outcomes  
**Hans G. Lemij** (Netherlands)

**11.30 MS6.05** Which treatment do patients prefer? Results from the LIGHT trial  
**Gus Gazzard** (United Kingdom)



Monday, 21 May 2018

**12.00 - 13.30 Educational Partner Symposium Main Auditorium**

See page 83 for details

**13.45 - 14.45 C4.01 - Instructional Course Room Vasari**



**Clinical skills: Optic disc**

Course Director: **Jost B. Jonas** (Germany)

Course Moderator: **Marcos Muñoz** (Spain)

Course Speakers: **Andreas Boehm** (Germany), **Jost B. Jonas** (Germany)

**13.45 - 14.45 C4.02 - Instructional Course Room Michelangelo**

**Phacoemulsification in glaucoma**

Course Director: **Carlo Enrico Traverso** (Italy)

Course Moderator: **Cedric Schweitzer** (France)

Course Speakers: **Andrew McNaught** (United Kingdom), **Carlo Enrico Traverso** (Italy)

**13.45 - 14.45 C4.03 - Instructional Course Room Donatello**

**Managing glaucoma in the low and middle income populations**

Course Director: **Heiko Philippin** (United Republic of Tanzania)

Course Moderator: **Anani Toshev** (Bulgaria)

Course Speakers: **Mohammed Mahdi Abdull** (Nigeria),  
**Heiko Philippin** (United Republic of Tanzania)

**13.45 - 14.45 C4.04 - Instructional Course Room Cimabue**



**Tips&tricks: Glaucoma differential diagnosis**

Course Director: **Aki Kawasaki** (Switzerland)

Course Moderator: **Mehmet Cem Mocan** (USA)

Course Speakers: **Stefania Bianchi Marzoli** (Italy), **Aki Kawasaki** (Switzerland),  
**Leonard Levin** (Canada)

**13.45 - 14.45 C4.05 - Instructional Course Room Leonardo**

**Surgery: Non-penetrating surgery**

Course Director: **André Mermoud** (Switzerland)

Course Moderator: **Laura Beltran-Agulló** (Spain)

Course Speakers: **Thomas Klink** (Germany), **Jorge Loscos Arenas** (Spain),  
**André Mermoud** (Switzerland)

21 May 2018

Monday, 21 May 2018

13.45 - 14.45	<b>C4.06 - Instructional Course</b>	<b>Room Giotto</b>
	<p><b>EGS Curriculum: Glaucoma medication - Today and tomorrow</b>            Course Director: <b>Norbert Pfeiffer</b> (Germany)            Course Moderator: <b>Gerhard Garhofer</b> (Austria)            Course Speakers: <b>Luis Abegão Pinto</b> (Portugal), <b>Norbert Pfeiffer</b> (Germany)</p>	
13.45 - 14.45	<b>C4.07 - Instructional Course</b>	<b>Room Botticelli</b>
	<p><b>EGS Education Theme: Comprehensive course about reading HFA printouts</b>            Course Director: <b>Hans G. Lemij</b> (Netherlands)            Course Moderator: <b>Andrew Tatham</b> (United Kingdom)            Course Speakers: <b>David Garway-Heath</b> (United Kingdom), <b>Hans G. Lemij</b> (Netherlands)</p>	
13.45 - 14.45	<b>C4.08 - Instructional Course</b>	<b>Room Brunelleschi</b>
	<p><b>Quality of life in glaucoma</b>            Course Director: <b>David Crabb</b> (United Kingdom)            Course Moderator: <b>Rupert Bourne</b> (United Kingdom)            Course Speakers: <b>David Crabb</b> (United Kingdom), <b>Luciano Quaranta</b> (Italy),  <b>Pradeep Y. Ramulu</b> (USA)</p>	
14.45 - 15.15	<b>Poster Session 4</b>	<b>Poster Area</b>
	<p><b>Treatment primary open-angle glaucoma and treatment angle-closure glaucoma</b>            Chairmen: <b>Esther Hoffmann</b> (Germany), <b>Francesco Oddone</b> (Italy),  <b>Gordana Sunaric Mégevand</b> (Switzerland)</p>	
15.15 - 16.15	<b>C5.01 - Instructional Course</b>	<b>Room Giotto</b>
	 <p><b>Clinical skills: IOP (basic)</b>            Course Director: <b>Andrei Brezhnev</b> (Russia)            Course Moderator: <b>Marc Töteberg-Harms</b> (Switzerland)            Course Speakers: <b>Andrei Brezhnev</b> (Russia), <b>Jeffrey M. Liebmann</b> (USA)</p>	
15.15 - 16.15	<b>C5.02 - Instructional Course</b>	<b>Room Botticelli</b>
	<p><b>Managing angle-closure</b>            (organized by the EGS Angle Closure SIG)            Course Director: <b>John Thygesen</b> (Denmark)            Course Moderator: <b>Francis Carbonaro</b> (Malta)            Course Speakers: <b>Gus Gazzard</b> (United Kingdom), <b>John Thygesen</b> (Denmark)</p>	



Monday, 21 May 2018

**15.15 - 16.15 C5.03 - Instructional Course Room Cimabue**

**Managing secondary glaucomas**

Course Director: **Paolo Brusini** (Italy)

Course Moderator: **Andrew Scott** (United Kingdom)

Course Speakers: **Paolo Brusini** (Italy), **Giorgio Marchini** (Italy), **Enrico Martini** (Italy)

**15.15 - 16.15 C5.04 - Instructional Course Room Brunelleschi**

**Surgery: tubes (basic)**

Course Director: **Kin Sheng Lim** (United Kingdom)

Course Moderator: **Antoine Rousseau** (France)

Course Speakers: **Susana Duch** (Spain), **Kin Sheng Lim** (United Kingdom),  
**Tarek Shaarawy** (Switzerland)

**15.15 - 16.15 C5.05 - Instructional Course Room Leonardo**

**Surgery: surgical challenges (Interactive discussion)**

Course Director: **Herbert Reitsamer** (Austria)

Course Moderator: **Eleni Nikita** (United Kingdom)

Course Speakers: **Herbert Reitsamer** (Austria), **Clemens Vass** (Austria),  
**Esther Hoffmann** (Germany)

**15.15 - 16.15 C5.06 - Instructional Course Room Vasari**

**EGS Scientific Committee: How to design your RCT in glaucoma (medical-surgical PROMs)**

Course Director: **Augusto Azuara-Blanco** (United Kingdom)

Course Moderator: **Anthony Khawaja** (United Kingdom)

Course Speakers: **Augusto Azuara-Blanco** (United Kingdom),  
**Hari Jayaram** (United Kingdom),  
**Kuldev Singh** (USA)

**15.15 - 16.15 C5.07 - Instructional Course Room Michelangelo**

**Tandem course: Matching clinic and research**

Course Director: **Franz Grehn** (Germany)

Course Moderator: **Mika Harju** (Finland)

Course Speakers: **Franz Grehn** (Germany), **Ernst Tamm** (Germany)

**15.15 - 16.15 C5.08 - Instructional Course Room Donatello**



**EGS Scientific Committee: Genetics**

(organized by the EGS Genetic SIG)

Course Director: **Fotis Topouzis** (Greece)

Course Moderator: **Eleftherios Anastasopoulos** (Greece)

Course Speakers: **Tin Aung** (Singapore), **Ananth C. Viswanathan** (United Kingdom)

**16.30 - 17.30 SIG Meetings**

**19.30 - 23.00**  
**Palazzo Corsini**  
**Social Dinner**

21 May 2018



Tuesday, 22 May 2018

08.30 - 09.30	<b>C6.01 - Instructional Course</b>	<b>Room Donatello</b>
	<p><b>Tips&amp;tricks: How to make the most out of your patient's VF (expert)</b>            Course Director: <b>Francisco Javier Goñi</b> (Spain)            Course Moderator: <b>Pedro Miguel Faria</b> (Portugal)            Course Speakers: <b>Joseph Caprioli</b> (USA), <b>Francisco Javier Goñi</b> (Spain)</p>	
08.30 - 09.30	<b>C6.02 - Instructional Course</b>	<b>Room Brunelleschi</b>
	<p><b>Pros&amp;cons: Virtual clinics</b>            Course Director: <b>James Edwards Morgan</b> (United Kingdom)            Course Moderator: <b>Jonathan Clarke</b> (United Kingdom)            Course Speakers: <b>James Edwards Morgan</b> (United Kingdom),  <b>Dilani Siriwardena</b> (United Kingdom),  <b>Anja Tuulonen</b> (Finland)</p>	
08.30 - 09.30	<b>C6.03 - Instructional Course</b>	<b>Room Giotto</b>
	<p><b>Surgery: Managing complications after trabeculectomy</b>            Course Director: <b>Stefano Gandolfi</b> (Italy)            Course Moderator: <b>Stylianos Kandarakis</b> (Greece)            Course Speakers: <b>Zeynep Aktas</b> (Turkey), <b>Stefano Gandolfi</b> (Italy),  <b>James Kirwan</b> (United Kingdom)</p>	
08.30 - 09.30	<b>C6.04 - Instructional Course</b>	<b>Room Leonardo</b>
	<p><b>Surgery: Phaco as IOP lowering procedure</b>            (Organized by the EGS Surgery SIG)            Course Director: <b>Julián García-Feijoo</b> (Spain)            Course Moderator: <b>Paolo Fogagnolo</b> (Italy)            Course Speakers: <b>Andreas Diagourtas</b> (Greece), <b>Kin Sheng Lim</b> (United Kingdom),  <b>Francesco Oddone</b> (Italy)</p>	
08.30 - 09.30	<b>C6.05 - Instructional Course</b>	<b>Room Michelangelo</b>
	<p><b>EGS Education Theme: Comprehensive course in OCT and glaucoma</b>            Course Director: <b>David Garway-Heath</b> (United Kingdom)            Course Moderator: <b>Pdraig Mulholland</b> (United Kingdom)            Course Speakers: <b>David Garway-Heath</b> (United Kingdom), <b>Hans G. Lemij</b> (Netherlands)</p>	



Tuesday, 22 May 2018

**08.30 - 09.30** **C6.06 - Instructional Course** **Room Vasari**

**EGS Education Theme: How to implement EGS curriculum in your training programme**  
Course Director: **Gordana Sunaric Mégevand** (Switzerland)  
Course Moderator: **Karl Mercieca** (United Kingdom)  
Course Speakers: **Alain Bron** (France), **Philippe Adriaan Kestelyn** (Belgium),  
**Gordana Sunaric Mégevand** (Switzerland)

**08.30 - 09.30** **C6.07 - Instructional Course** **Room Cimabue**

**Cyclodestruction: safe surgery or last resort?**  
Course Director: **Philippe Denis** (France)  
Course Moderator: **Florent Aptel** (France)  
Course Speakers: **Sally Ameen** (United Kingdom), **Philippe Denis** (France),  
**Yves Lachkar** (France)

**08.30 - 09.30** **C6.08 - Instructional Course** **Room Botticelli**

**Adherence in glaucoma: Are we making progress?**  
Course Director: **Anastasios G.P. Konstas** (Greece)  
Course Moderator: **Panayiota Founti** (United Kingdom)  
Course Speakers: **Murat Irkec** (Turkey), **Sibel Kocabeyoglu** (Turkey),  
**Anastasios G.P. Konstas** (Greece)

**09.45 - 11.15** **Main Session 7** **Main Auditorium**

**Glaucoma and driving**  
Chairmen: **David Garway-Heath** (United Kingdom), **Anja Tuulonen** (Finland)  
Facilitators: **David S. Friedman** (USA), **Hans G. Lemij** (Netherlands)

**09.45**  
**MS7.01** Impact of vision loss on driving performance  
**Ananth C. Viswanathan** (United Kingdom)

**10.01**  
**MS7.02** Patients' perspective  
**Charles McManus** (United Kingdom)

**10.17**  
**MS7.03** The role of vision problems in lethal traffic accidents  
**Timo Tervo** (Finland)

**10.33**  
**MS7.04** Doctor's dilemma: carer or agent of the state?  
**Ingrida Januleviciene** (Lithuania)

**10.49**  
**MS7.05** Is this patient safe to drive?  
**David Crabb** (United Kingdom)

**11.05** Panel discussion: What do you think? The audience decides

**11.10** Panel discussion: Next steps for the EGS activities

Tuesday, 22 May 2018

11.15 - 11.45	Poster Session 5	Poster Area
<p>Treatment glaucoma all types, Treatment pediatric glaucoma, Treatment secondary glaucomas Chairmen: <b>Luis Abegão Pinto</b> (Portugal), <b>Augusto Azuara-Blanco</b> (United Kingdom), <b>Andrei Brezhnev</b> (Russia)</p>		
11.45 - 13.45	Main Session 8	Main Auditorium
<p><b>Non-traditional surgery</b> Chairmen: <b>Franz Grehn</b> (Germany), <b>Carlo Enrico Traverso</b> (Italy) Facilitators: <b>Stefano Gandolfi</b> (Italy), <b>Gordana Sunaric Mégevand</b> (Switzerland)</p>		
11.45 MS8.01	Aqueous humour outflow pathways <b>Ernst Tamm</b> (Germany)	
12.03 MS8.02	How does MIGS work? <b>Julián García-Feijoo</b> (Spain)	
12.21 MS8.03	How to evaluate MIGS effectiveness? The FDA perspective <b>Kuldev Singh</b> (USA)	
12.39 MS8.04	Is MIGS cost-effective? Debate: - yes <b>Norbert Pfeiffer</b> (Germany)	
12.47 MS8.05	- no <b>Augusto Azuara-Blanco</b> (United Kingdom)	
12.55 MS8.06	Is MIGS a stand-alone surgery or an adjunctive to cataract surgery? Debate: - stand-alone surgery <b>Esther M. Hoffmann</b> (Germany)	
13.03 MS8.07	- an adjunctive to cataract surgery <b>Andrei Brezhnev</b> (Russia)	
13.11 MS8.08	What could MIGS replace? Debate: - drops/laser <b>Alain Bron</b> (France)	
13.19 MS8.09	- traditional surgery <b>Ingeborg Stalmans</b> (Belgium)	
13.27 MS8.10	- nothing <b>John Salmon</b> (United Kingdom)	
13.35	Panel discussion	

13.45 - 14.15  
Main Auditorium  
Farewell Reception



**European Glaucoma Society**  
Innovation, Education, Communication, Implementation

Welcome to celebrate the  
**40<sup>th</sup> Anniversary of the EGS**



# **14<sup>th</sup> EGS Congress**

**Brussels, Belgium**  
30 May • 3 June 2020



Sunday, 20 May 2018

10.00 - 10.30 Poster Session 1

Poster Area

**Epidemiology, Health economics, Visual disability, QOL, Pathogenesis**Chairmen: **Panayiota Founti** (United Kingdom), **Stefano Gandolfi** (Italy),  
**Anja Tuulonen** (Finland)

- P1.002** FAST® questionnaire: a short and effective tool to assess ocular surface disease in all glaucoma patients  
M. Misiuk-Hojlo<sup>1</sup>, J. Clarke<sup>2</sup>, A. Antón López<sup>3</sup>, C. Baudouin<sup>4</sup> (<sup>1</sup>Poland, <sup>2</sup>United Kingdom, <sup>3</sup>Spain, <sup>4</sup>France)
- P1.003** Experience of the volunteer mission with the new mobile glaucoma unit  
G. Dalianis, A. Trivli, C. Terzidou (Greece)
- P1.005** The results of state screening for glaucoma in Republic of Kazakhstan  
N. Aldasheva, L. Tashtitova (Kazakhstan)
- P1.006** Clinical profile of Polish glaucoma patients- results of a Polish Ophthalmological Society survey conducted among ophthalmologists  
I. Grabska-Liberek, J. Majczyk-Ionescu, A. Skowrya, M. Rogowska (Poland)
- P1.007** Literature review comparing the use of fixed dose combinations versus multidrug treatments in glaucoma patients  
D. Viriato<sup>1</sup>, S. Gogna<sup>2</sup>, R. Jindal<sup>2</sup>, G. Dasari<sup>2</sup>, Y.S. Kim, A. Mullins<sup>3</sup>, B. Sloesen<sup>1</sup>, J. Banhazi<sup>4</sup>, A. Realini<sup>3</sup>  
(<sup>1</sup>Switzerland, <sup>2</sup>India, <sup>3</sup>USA, <sup>4</sup>Ireland)
- P1.008** Comparative analysis of antiglaucoma generic and original eye drugs in Split - Dalmatia County, Croatia  
V. Rogosic, L. Vanjaka Rogosic, V. Mastnak, M. Gulin, K. Novak Laus (Croatia)
- P1.009** Glaucoma in the Northern Ireland Cohort for the Longitudinal Study of Ageing (NICOLA) and Glaucoma within NICOLA (GwNICOLA): rationale and methods  
P. McCann, R.E. Hogg, I.S. Young, F. Kee, A. Azuara-Blanco (United Kingdom)
- P1.010** I still haven't found what i'm looking for.... Bono, Google and glaucoma awareness  
C. Lyons (Ireland)
- P1.011** The relationship between environmental factors and exfoliation  
M. Irkec, F. Bezci, T. Bagcibosi, S. Kocabeyoglu (Turkey)
- P1.012** Cognitive evaluation of patients with exfoliative glaucoma and primary open-angle glaucoma  
S. Kocabeyoglu, Y. Deniz, C. Balci, B.B. Yavuz, M. Cankurtaran, M. Irkec (Turkey)
- P1.013** The prevalence of undiagnosed glaucomatous and other age-related sight threatening diseases in self-proclaimed healthy individuals  
S. Lemmens, J. Barbosa-Breda, T. Jacobs, K. Van Keer, R. Van Landeghem, I. Stalmans (Belgium)
- P1.014** The prevalence and clinical characteristics of charles bonnet syndrome in Turkish patients with glaucoma  
G. Arikan, C. Durmaz, E. Yaka, U. Gunenc (Turkey)
- P1.015** Streamlining glaucoma outpatient services in Moorfields eye hospital south: results of a quality improvement initiative to increase clinic capacity and quality of care  
L.-Y. Ngai, E. Gabbott, T. Bader, P. Rai (United Kingdom)
- P1.016** Patients factors encompassing glaucoma care  
R.T. Brady, A. Ní Mhéalóid, E. Henry, J. Brady, J. Stokes (Ireland)
- P1.017** Differences of ocular surface disease signs and symptoms between patients with primary open angle glaucoma and pseudoexfoliative glaucoma  
A. Matsou, M. Dermenoudi, C. Keskin, P. Brazitikos, E. Anastasopoulos (Greece)
- P1.018** Association of visit-to-visit blood pressure variability with normal tension glaucoma  
M.D. Ahn, N.Y. Lee (Republic of Korea)



- P1.019** Association between open-angle glaucoma and hypothyroidism: a meta-analysis  
G.J. Seong, C.Y. Kim, H.W. Bae, S. Kim (Republic of Korea)
- P1.020** Association between open-angle glaucoma and the risk of Alzheimer's disease and Parkinson's disease in South Korea: a 10-year nationwide cohort study  
S.H. Lee, J. Moon, S.J. Jung (Republic of Korea)
- P1.021** The Italian primary open-angle glaucoma study: quality of life changes over one-year follow-up  
I. Riva<sup>1</sup>, L. Legramandi<sup>1</sup>, E. Rulli<sup>1</sup>, A. Katsanos<sup>2</sup>, A. Iaria<sup>1</sup>, L. Quaranta<sup>1</sup> (<sup>1</sup>Italy, <sup>2</sup>Greece)
- P1.022** ISY (satISfaction surveY): first real-life data of use of a preservative-free multidose glaucoma device (EasyGrip® delivery system) in 5 European countries  
P. Denis, C. Erb<sup>2</sup>, P. Puska<sup>3</sup>, J. Skov<sup>4</sup>, S. Duch<sup>5</sup> (<sup>1</sup>France, <sup>2</sup>Germany, <sup>3</sup>Finland, <sup>4</sup>Denmark, <sup>5</sup>Spain)
- P1.023** Association of alcohol consumption and intraocular pressure in men and women: the 5<sup>th</sup> Korea National Health and Nutritional Examination Survey 2010-2012  
Y.C. Yoo, H.K. Kim, K.B. Lee (Republic of Korea)
- P1.024** Polymorphism of estrogen receptors and their influence on clinical status of patients with primary open angle glaucoma  
D. Wróbel-Dudzinska<sup>1</sup>, M. Sagan<sup>1</sup>, E. Kosior-Jarecka<sup>1</sup>, U. Łukasik<sup>1</sup>, T. Aung<sup>2</sup>, C.C. Khor<sup>2</sup>, J. Kocki<sup>1</sup>, T. Zarnowski<sup>1</sup> (<sup>1</sup>Poland, <sup>2</sup>Singapore)
- P1.025** Comparison of relationships between anterior chamber depth and other ophthalmic biometrical ocular factors either at the central and the peripheral anterior chamber portions among (Japan)ese residents  
K. Kitamura, T. Chiba, J. Tanabe, K. Kashiwagi (Japan)
- P1.026** Acute glaucoma: incidence at ophthalmic emergencies at an urgency-emergency general hospital  
C. Rocha Lauretti, D. Pereira da Silva Felipe Crosta, A. Messias (Brazil)
- P1.027** Evaluation of intraocular pressure and central corneal thickness in children  
O. Balta (Turkey)
- P1.028** Vision-related quality of life in patients with congenital glaucoma  
A. Miraftabi<sup>1</sup>, A.L. Coleman<sup>2</sup>, M. Parsamanesh<sup>1</sup>, N. Nilforushan<sup>1</sup>, A.H. Nguyen<sup>2</sup>, S.A.P. Alemzadeh<sup>1</sup> (<sup>1</sup>Iran, <sup>2</sup>USA)
- P1.029** The association of posterior embryotoxone and pediatric glaucoma in the Serbia  
V. Jovanovic, L. Magarasevic, Z. Abazi (Serbia)
- P1.030** Ocular hypertension in patients with uveitis  
R. Kijima, Y. Shinmei, T. Ohguchi, T. Nitta, K. Namba, S. Chin, S. Ishida (Japan)
- P1.031** Analysis of exfoliation syndrome and exfoliation glaucoma prevalence in Novosibirsk region  
E. Tashlykova, O. Kuleshova, S. Aidagulova, A. Lazareva, V. Dulidova, V. Chernikh (Russia)
- P1.032** Risk factors and outcomes of ocular hypertension in patients with uveitis  
S. Benchekroun, R. El Hadiri, L. El Kaissoumi, Y. El Harrak, O. Cherkaoui (Morocco)
- P1.033** Neutrophil-to-Lymphocyte Ratio and systemic diseases in patients with pseudoexfoliation glaucoma  
M. Lopez-Valladares, A. Suarez-Campo, P. Mascareñas-Pazos, T. Rodriguez-Ares (Spain)
- P1.034** Clinical characteristics of drug induced secondary bilateral acute angle-closure crisis  
J. Jin Jung, Y. Yoo, H.J. Hwang, Y. Gon Lee, J. Geun Jeong (Republic of Korea)
- P1.035** Comparing of lamina cribrosa and peripapillary vessels density between branch retinal vein occlusion and normal tension glaucoma with swept source OCT and OCTA  
C.K. Lee, J. Shin, S. Rho, D.W. Kim, M. Lee (Republic of Korea)



## Sunday, 20 May 2018

- P1.037** RhoA activation inhibited phagocytic activity of trabecular meshwork cells  
T. Fujimoto, T. Inoue, S. Ohira, M. Inoue, H. Tanihara (Japan)
- P1.038** The Effect of histone deacetylase on activity of glial cells in the ischemic mouse retina  
S.W. Park (Republic of Korea)
- P1.039** Relationship between preoperative intraocular pressure and retinal nerve fiber layer thinning after glaucoma surgery  
K.N. Kim (Republic of Korea)
- P1.040** A theoretical study of the role of conformational properties of trans-epithelial ion pump on aqueous humor production  
D.E. Messenio<sup>1</sup>, R. Sacco<sup>1</sup>, L. Sala<sup>2</sup>, A. Mauri<sup>3</sup>, G. Guidoboni<sup>3</sup>, A. Harris<sup>3</sup> (<sup>1</sup>Italy, <sup>2</sup>France, <sup>3</sup>USA)
- P1.042** The association between haemodialysis and optic neuropathy  
B.N.K. Choy, N.S.K. Fung, J.S.M. Lai (Hong Kong)
- P1.043** Functional analysis of MANF in retinal ganglion cells by oxidative stress  
J. Ko (Japan)
- P1.044** Visual field defects due to cerebrospinal fluid hypovolemia  
M. Kusajima, Y. Shinmei, A. Takahashi, K. Ishijima, Y. Tagawa, K. Suzuki, T. Yamamoto, K. Nakamura, S. Chin, S. Ishida (Japan)
- P1.045** Mapping expression of glaucoma risk genes in the mouse eye  
W. Hubens, E. Breddels, T. Gorgels, C. Webers (Netherlands)
- P1.046** Glaucoma-on-a-chip: an in vitro model for glaucoma drug discovery based on mimicking the mechanical stress of high eye pressure  
T.G.M.F. Gorgels, P.A.M.M. Vroemen, R. Sinha, J. Rouwkema, L. Moroni, J. de Boer, C.A.B. Webers (Netherlands)
- P1.047** Isolation and culturing of rodent retinal ganglion cells for glaucoma disease modeling  
P. Vroemen, J. de Boer, C.A.B. Webers, T.G.M.F. Gorgels (Netherlands)
- P1.048** Systemic and ocular determinants of mean ocular perfusion pressure in a population-based sample  
N. Yildirim, E. Atalay, L. Niyaz, S. Gültekin (Turkey)
- P1.049** Structural and vascular evaluation of optic nerve and macula using optical coherence tomography angiography in hypertension  
B. Burgos-Blasco, J. Pascual-Prieto, J.M. Martinez de la Casa, N. Güemes-Villahoz, L. Salazar-Quiñones, M. Avila-Sanchez, M.A. Barbero-Pedraz, F. Saenz-Frances, S. García-Saénz, J. García-Feijoo (Spain)
- P1.050** Prevalence of hypotensive episodes in patients with hypertension, with or without glaucoma  
R. Nesher, M. Mosseri, Y. Keshet, I. Frumkin, O. Kazanovsky, M. Mimouni, E. Golan, S. Ben Shitrit (Israel)
- P1.051** A novel tissue engineered biomimetic model of the lamina cribrosa region for glaucoma research  
D. Clissmann, R. Murphy, R. Low, A. Hopkins, M. Irnaten, D. Wallace, A. Hibbitts, A. Ryan, F. O'Brien, C. O'Brien, D. Brennan (Ireland)
- P1.052** Serum homocysteine, vitamin B12 and folic acid levels in different types of open angle glaucoma  
M. Stojcic, M. Stojkovic, V. Lukic, B. Stojcic, L. Zoric, Z. Bukumiric (Serbia)
- P1.053** Proteomic expression profile of the Iris in primary glaucoma: a pilot report  
A. Narayanaswamy, M. Nongpiur, L. Zhou, T. Wong, T. Aung (Singapore)
- P1.054** Changes in the optic nerve head induced by horizontal eye movements  
W.J. Lee, H.W. Lim (Republic of Korea)



- P1.055** *Lamina cribrosa* cell bioenergetics in glaucoma: role of glycolysis and glutaminolysis  
D. Hickey<sup>1</sup>, M. Irnaten<sup>1</sup>, D. Brennan<sup>2</sup>, D. Wallace<sup>1</sup>, A. Clark<sup>2</sup>, C.J. O'Brien<sup>1</sup> (<sup>1</sup>Ireland, <sup>2</sup>USA)
- P1.056** Gene expression of TGF beta isoforms and its receptors in the parts of trabecular meshwork in patients with glaucoma - a preliminary report  
W. Maruszczyk, M. Kimsa, M. Machalska, M. Dorecka, B. Strzalka-Mrozik, U. Mazurek, E. Mrukwa-Kominek (Poland)
- P1.057** Rare case of right side horner syndrome and simultaneous pigmentary glaucoma of the left eye  
K. Moustaklis, S. Gorezis (Greece)
- P1.058** Anterior segment circulating neurotoxic cytokines in primary open angle glaucoma patients  
A. Pantalon, D. Chiselita, C. Feraru (Romania)
- P1.059** Deep optic nerve head morphology are associated with pattern of glaucomatous visual field defect in open angle glaucoma  
J.C. Han, C. Kee, J.H. Choi, E.J. Lee, D.Y. Park (Republic of Korea)
- P1.060** Topical ripasudil prevents retinal ganglion cell death in a mouse model of normal tension glaucoma  
T. Harada, K. Akaiwa, K. Namekata, Y. Azuchi, X. Guo, A. Kimura, C. Harada, Y. Mitamura (Japan)
- P1.061** Features of lamina cribrosa and autonomic nervous system in glaucoma patients with disc hemorrhage  
J. Kim, C.K. Park, H.-Y.L. Park (Republic of Korea)
- P1.062** Relationship between microstructure of peripapillary atrophy and microvasculature in myopic eyes  
M.S. Sung (Republic of Korea)
- P1.063** Racial differences in the extracellular matrix and histone acetylation of the lamina cribrosa and peripapillary sclera  
H.-Y. Lopilly Park, C.K. Park (Republic of Korea)
- P1.064** Different contributions of autophagy to retinal ganglion cell death in the diabetic and glaucomatous retinas  
C.K. Park, J.H. Kim, H.-Y. Lopilly Park (Republic of Korea)
- P1.065** Optical coherence tomography angiography of the optic disc perfusion in glaucoma in Asian eyes - A promising technology  
D. Aryasingha, S. Pathirana (Sri Lanka)
- P1.066** Association between additive effects of genetic variants associated with primary open-angle glaucoma and family history of glaucoma  
F. Mabuchi, N. Mabuchi, Y. Sakurada, S. Yoneyama, K. Kashiwagi, Z. Yamagata, H. Iijima (Japan)
- P1.067** Bioinformatical pathway analyses to discover the molecular pathogenesis of primary open angle glaucoma  
I. Liesenborghs, M. Kutmon, L.M.T. Eijssen, T.G.M.F. Gorgels, C.T. Evelo, H.J.M. Beckers, C.A.B. Webers, J.S.A.G. Schouten (Netherlands)
- P1.068** Bruch's membrane opening expands in primary open angle glaucoma  
G. Rebolleda, A. Pérez-Sarriegui, L. Díez-Álvarez, V. De Juan, F.J. Muñoz-Negrete (Spain)
- P1.069** Human trabecular meshwork exposure to oxidative stress: two-dimensional vs three-dimensional cultures  
S.C. Saccà, C.A. Cutolo, T. Sbrana, S. Gandolfi, C.E. Traverso, A.M. Bassi (Italy)
- P1.070** The roles of TNF- $\alpha$ -308 gene polymorphism and TNF- $\alpha$  serum concentrations in glaucoma patients  
M. Trenkic Bozinovic, P. Jovanovic, J. Jovic Djordjevic, M. Petrovic, M. Radenkovic, A. Veselinovic, A. Miljkovic (Serbia)
- P1.071** Effect of week day on intraocular pressure variations using continuous intraocular telemetry  
H.L. Rao (India)

## Sunday, 20 May 2018

- P1.072** Involvement of the trabecular meshwork, distal and proximal layers of sclera in increasing the resistance of the outflow pathways in pseudoexfoliation glaucoma  
O. Kuleshova, S. Aidagulova, A. Lazareva, E. Pichikova, V. Dulidova (Russia)
- P1.073** Is obstructive sleep apnoea associated with glaucoma progression?  
R. Bourne<sup>1</sup>, D. Wozniak<sup>1</sup>, G. Peretz<sup>2</sup>, J. Kean<sup>1</sup>, R. Foster<sup>1</sup>, S. Downes<sup>1</sup>, I. Smith<sup>1</sup> (<sup>1</sup>United Kingdom, <sup>2</sup>Israel)
- P1.074** Prevalence of obstructive sleep apnoea in glaucoma: the POSAG study  
G. Peretz<sup>1</sup>, D. Wozniak<sup>2</sup>, J. Kean<sup>2</sup>, S. Harun<sup>2</sup>, C. Willshire<sup>2</sup>, S. Villar<sup>2</sup>, R. Foster<sup>2</sup>, S. Downes<sup>2</sup>, I. Smith<sup>2</sup>, R. Bourne<sup>2</sup> (<sup>1</sup>Israel, <sup>2</sup>United Kingdom)
- P1.075** ET-1 effect on functional and structural change in patients with POAG  
S. Ljaljevic, E. Alimanovic, M. Lika-Pranjic (Bosnia and Herzegovina)
- P1.076** Vascular evaluation of the optic disc with OCT-A in primary open-angle glaucoma  
P. Faria, I. Sobral, C. Azenha, J. Cardoso, J.F. Silva, J. Moura Pereira (Portugal)
- P1.078** Evaluation of *lamina cribrosa* by swept-source optical coherence tomography in primary open-angle glaucoma  
I. Pasaoglu, B. Satana, C. Altan, B. Basarir, E. Pasaoglu, T. Yasar, M. Taskapili (Turkey)
- P1.079** The association of choroidal thickness with retinal nerve fiber layer thickness in advanced primary open-angle glaucoma  
F.S. Yilmaz, A. Cakir, G. Ozturan, M. Elcioglu (Turkey)
- P1.080** The proteins of mitochondrial dysfunction and integrin signaling change in the rat retina following cerebrospinal fluid pressure reduction  
F. Yan, F. Yu, Y. Gong, L. Zhang, J. Zhang, S. Wu, H. Deng, N. Wang (China)
- P1.081** The role of lysyl oxidase-1 (LOX1) as collagen cross-linker in POAG  
N. Rahman, M. Irnaten, C. O'Brien (Ireland)
- P1.082** Translaminar pressure gradient and ocular perfusion pressure in glaucoma patients with different optic disc sizes  
N. Kasahara (Brazil)
- P1.083** Analysis of MYOC gene in a Czech family with primary open-angle glaucoma  
L. Rezkova, M. Fichtl, P. Liskova, L. Dudakova, E. Ruzickova (Czech Republic)
- P1.084** Short-term observation of retina blood filling changes in rat retina ischemia-reperfusion model established with a novel operative approach and procedure  
F. Yan, L. Zhang, S. Wu, J. Zhang, K. Liu, S. Li, N. Wang (China)
- P1.085** Genetic variants associated with high intraocular pressure are not associated with primary angle closure glaucoma  
R.S. Chong<sup>1</sup>, G.S.E. Kiew<sup>2</sup>, M. Nongpiur<sup>1</sup>, S. Perera<sup>1</sup>, L.J. Chen<sup>3</sup>, S. Sarangapani<sup>4</sup>, D. Tan<sup>5</sup>, Y. Azhany<sup>6</sup>, A.T. Liza-Sharmini<sup>6</sup>, C. Tham<sup>3</sup>, N.X. Hiep<sup>5</sup>, R. George<sup>4</sup>, C.-C. Khor<sup>1</sup>, E. Vithana<sup>1</sup>, T. Aung<sup>1</sup> (<sup>1</sup>Singapore, <sup>2</sup>United Kingdom, <sup>3</sup>Hong Kong, <sup>4</sup>India, <sup>5</sup>Viet Nam, <sup>6</sup>Malaysia)
- P1.087** Quantitative proteomic analysis of aqueous humour across angle closure disease spectrum  
M. Nongpiur, L. Zhou, E. Vithana, T. Aung, T. Wong (Singapore)
- P1.088** Newborn glaucoma: don't forget infections!  
S. Kaushik, G. Joshi, M. Singh, P. Kataria, A. Arora, S.S. Pandav (India)
- P1.089** Iris thickness and severity of neovascular glaucoma determined using swept-source anterior-segment optical coherence tomography  
S. Nakakura, Y. Kobayashi, K. Matsuya, Y. Kiuchi (Japan)



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- P1.090** Peripapillary vessel density in glaucomatous eyes: comparison between pseudoexfoliation glaucoma and primary open-angle glaucoma  
J.-H. Park<sup>1</sup>, C. Yoo<sup>1</sup>, M. Girard<sup>2</sup>, J.-M. Mari<sup>3</sup>, Y.Y. Kim<sup>1</sup> (<sup>1</sup>Republic of Korea, <sup>2</sup>Singapore, <sup>3</sup>French Polynesia)
- P1.091** Comparison of plasma C-reactive protein level in pseudoexfoliation (PXF) glaucoma with normal population  
R. Zarei (Iran)
- P1.092** Possible role of chlamydias in the etiopathogenesis of pseudoexfoliation syndrome  
A. Yilmaz, S. Gonca, Z. Oksuz Karaarslan, M.S. Serin, O. Oktay (Turkey)
- P1.093** Benefits of oral supplementation with docosahexaenoic acid and antioxidants in pseudoexfoliative glaucoma: a 6-month open-label randomized controlled trial  
S. Romeo Villadoniga, E. Rodriguez Garcia, M.D. Álvarez Diaz, J.C. Domingo Pedrol, O. Sagastagoia (Spain)
- P1.094** The role of environmental factors and genetic makeup in the pathogenesis of ocular pseudoexfoliation (pxf) syndrome in Saudi military and their family  
S. Alshamrani (Saudi Arabia)
- P1.095** New stop codon mutation of ADAMTS10 gene IN Weill-Marchesani syndrome  
A. Ozcan, B. Ulas (Turkey)

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## 14.45 - 15.15 Poster Session 2

## Poster Area

**Diagnosis**Chairmen: **Gábor Holló** (Hungary), **Michele Iester** (Italy), **Ingrida Januleviciene** (Lithuania)

- P2.001** Retinal nerve fibre layer thickness in metabolic syndrome  
R. Zarei, P. Anvari, G. Fakhraei (Iran)
- P2.002** The relationship between macular optic coherence tomography angiography and ganglion cell layer and their combinational index using artificial neural network  
K. Park (Republic of Korea)
- P2.003** Measurement of optic disc cup surface depth using cirrus HD-OCT  
Y.K. Kim, A. Ha, J.W. Jeoung, K.H. Park (Republic of Korea)
- P2.004** Comparison of optic disc margin evaluation by Bruch's membrane opening and peripapillary retinal nerve fiber layer thickness in spectral domain optic coherence tomography  
Z. Tuncer, F.S. Erdem (Turkey)
- P2.005** Influence of cataract and pupil size on ganglion cell layer and internal plexiform layer measurements by two different OCT devices  
A. Akman, S. Gür Güngör, S. Cezairlioglu, C. Öztürk, A. Sezenöz, M. Aksoy (Turkey)
- P2.006** Correlation between Bruch's membrane opening-minimum rim width and peripapillary retinal nerve fiber layer thickness according to disc size  
H.-K. Chop, J.M. Park, C. Kee (Republic of Korea)
- P2.007** Hemodynamic profile of glaucomatous eyes and a correlation with mean deviation, visual field index and retinal nerve fiber layer thickness  
T.T.J.M. Berendschot<sup>1</sup>, A. Mohan<sup>2</sup>, M. Jariwala<sup>2</sup>, S. Sudhakaran<sup>2</sup>, R.S. Kumar<sup>2</sup>, R. Shetty<sup>2</sup>, C.A.B. Webers<sup>1</sup>  
(<sup>1</sup>Netherlands, <sup>2</sup>India)
- P2.008** A closed-loop audit: the impact of SIGN 144 guidelines and education on glaucoma referrals  
R. Lawrie, K. Ah-See, D. Roberts, S. Gillan (United Kingdom)
- P2.009** The role of fibrinogen elevated values as the indicator of the acute phase of inflammation with different types of glaucoma  
M. Lika-Pranjic (Bosnia and Herzegovina)
- P2.010** Comparison of glaucoma diagnostic ability of macular ganglion cell imaging in accordance to the range around fovea using swept-source OCT  
J. Shin, C.K. Lee, K.H. Park (Republic of Korea)
- P2.011** Comparison of Korean glaucoma patients identified through health screening versus out-patient-clinic referral  
Y.J. Song, K.H. Park, Y.K. Kim, H.J. Choi, J.W. Jeoung (Republic of Korea)
- P2.012** Who should take MRI when showing visual field defect respecting vertical meridian?  
S. Kim, H.W. Bae, G.J. Seong, C.Y. Kim (Republic of Korea)
- P2.013** Central 30-2 versus 24-2 threshold test measured with Humphrey visual field using SITA strategy  
K. Yi, S.H. Bae (Republic of Korea)
- P2.014** Corneal tomographic findings in patients with glaucoma and abnormal corneas  
J.C. Izquierdo, L. Izquierdo, L.A. Cañola-Ramírez, C. Maldonado, M.A. Henriquez (Peru)
- P2.015** Comparison of perimetry for glaucoma using standard size iPad and large screen iPad Pro with Humphrey field analyzer  
H. Chan<sup>1</sup>, Y.X.G. Kong<sup>1</sup>, L. Sahhar<sup>1</sup>, K.R. Martin<sup>2</sup>, M. He<sup>1</sup>, J. Crowston<sup>1</sup>, A.J. Vingrys<sup>1</sup> (<sup>1</sup>Australia, <sup>2</sup>United Kingdom)



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- P2.016** Clinical efficacy of custom-built database software for early glaucoma detection  
S. Rho, C.-K. Lee, J. Shin, M. Lee, D.W. Kim, S. Lee, H.Y. Park (Republic of Korea)
- P2.017** The location of optic disc grey crescent by optical coherence tomography  
S. Bang, T.-E. Lee, S.R. Chung (Republic of Korea)
- P2.018** Morphofunctional characteristic of the conjunctiva in glaucoma  
A. Assylbekova (Kazakhstan)
- P2.019** Ganglion-cell complex thickness to total retinal thickness ratio in Caucasian population  
S. Gür Güngör, A. Akman, A. Sezenöz, C. Öztürk, S. Cezairlioglu, M. Aksoy, M. Çolak (Turkey)
- P2.020** Application of the ISNT and IST rules on retinal nerve fiber layer thickness in glaucoma suspect and glaucoma patients  
S.Y. Cho, Y.Y. Kim, C. Yoo (Republic of Korea)
- P2.021** Characteristics of diffuse retinal nerve fiber layer defects in red-free photos as observed in optical coherence tomography en face images  
Y.Y. Kim, A. Lim, C. Yoo, J.H. Jung (Republic of Korea)
- P2.022** Assessment of the biomechanics of the cornea mounted in an innovative bioreactor  
V. Saunier, E. Crouzet, P. Legout, P. Herbepin, G. Thuret, D. Touboul, P. Gain (France)
- P2.023** Comparison of the retinal nerve fiber layer and ganglion cell complex thickness in Korean patients with unilateral exfoliation syndrome and healthy subject  
S.-H. Lim, T.Y. Lee (Republic of Korea)
- P2.024** Hemoglobin measurement the optic nerve head using the Laguna ONhE program: comparison with spectralis OCT and image quality dependency  
M. Gonzalez-Hernandez, S. Alayon Miranda, M. Gonzalez de la Ros (Spain)
- P2.025** Will 24-hour IOP measurements improve patient care and reduce the costs of glaucoma management?  
F. Meier-Gibbons, M. Töteberg-Harms (Switzerland)
- P2.026** Use of ibopamine eye drops in ophthalmology  
I. Giuffré (Italy)
- P2.027** Treatment of refractory glaucoma with two trabecular micro-bypass stents, one suprachoroidal stent, and postoperative topical prostaglandin: five year outcomes  
I. Singh (USA)
- P2.028** Detection of Glaucoma with telemedicine optic disk photos and OCT in a primary care centre  
A. Anton, G. Fatty, A. Herranz, E. Ayala, A. Morilla, J.J. Gomez Valverde (Spain)
- P2.030** Reproducibility of vessel density calculations using different macular imaging methods from two swept-source optical coherence tomography angiography systems  
T. Shoji, J. Kanno, Y. Yoshikawa, K. Ozaki, H. Ishii, Y. Ichikawa, K. Shinoda (Japan)
- P2.031** Looking at the optical disc in the diabetic retinopathy telescreening: is it worth it?  
D. Lopes, S. Parreira, T. Loureiro, J. Cardoso, I. Machado, N. Campos (Portugal)
- P2.032** Optical coherence tomography angiography of optic disc perfusion in glaucoma cases  
A. Hervás, R. Díaz, E. Sanz, D. Salom, P. Udaondo, S. García-Delpech (Spain)
- P2.033** Intraocular pressures in patients with thyroid eye disease  
A. Kozaki (Japan)



## Sunday, 20 May 2018

- P2.034** Driving status in new glaucoma referrals  
C.H.K. Wu, D. Lunt, M. Doherty (United Kingdom)
- P2.035** Comparison of structure - Function relationship with contrast modulation and size modulation perimetry  
G. Montesano<sup>1</sup>, M. Miranda<sup>1</sup>, B. Petriti<sup>1</sup>, H. Zhu<sup>2</sup>, D. Garway-Heath<sup>1</sup> (<sup>1</sup>United Kingdom, <sup>2</sup>China)
- P2.036** Accuracy and agreement in detecting disc haemorrhages between Heidelberg retina tomograph and fundus photography in the United Kingdom Glaucoma Treatment Study  
J. Mohamed-Noriega, C. Gizzi, I. Treesit, T. Togano, C. Schweitzer, K. Yamamoto, D.F. Garway-Heath (United Kingdom)
- P2.037** Quantification of RAPD by an automated pupillometer and its relationship to retinal nerve fiber layer thickness and visual fields in glaucoma  
M. Pillai<sup>1</sup>, S. Sinha<sup>1</sup>, P. Aggarwal<sup>1</sup>, R.D. Ravindran<sup>1</sup>, C. Privitera<sup>2</sup> (<sup>1</sup>India, <sup>2</sup>USA)
- P2.038** New experimental applanation tonometer for myopic patients after refractive laser surgery  
M. Iglesias, A. Laiseca, B. Kudsieh (Spain)
- P2.039** Peripapillary vessel density by OCT-angiography in normal and glaucomatous eyes  
S. Henriques, A.S. Lopes, D. Silva, M. Mota, M. Lisboa, F. Trancoso Vaz, I. Prieto (Portugal)
- P2.040** Morphological structure of lamina cribrosa and peripapillary microvasculature for glaucoma diagnosis, using deep-range imaging  
R. Silva, P. Camacho, D. Cabral, P. Rodrigues, M. Marques, C. Dias, J. Valadares, J. Segurado, J. Fernandes (Portugal)
- P2.041** Interest of the analysis of peri-papillary retinal nerve fibers with different diameters of measurement  
H. El Chehab, E. Agard, C. Dot (France)
- P2.042** Comparison of Cirrus OCT and Spectralis OCT on the ability to measure the peripapillary retinal nerve fiber layer thickness in concurrent glaucoma and epiretinal membrane  
M.J. Kim, D.J. Hwang, J.H. Lee, J.H. Na, H.J. Chung, Y.S. Chung, J.Y. Choi (Republic of Korea)
- P2.043** Macular morphological parameters in glaucoma diagnosis  
A. Blasco Alberto, M. González Hernández, V.T. Díaz Alemán (Spain)
- P2.044** Evaluation of macular choroidal thickness with spectral domain optic coherence tomography in patients with ocular hypertension  
Ö. Gürbüz Köz, P. Topcu Yilmaz, A. Yarangümeli, M.N. Alp (Turkey)
- P2.045** Optical coherence tomography angiography and optic nerve head drusen. A qualitative and quantitative evaluation in relation to automated perimetry defects  
A. Diagourtas, K. Andreanos, S. Kandarakis, E. Asimakopoulou, D. Papaconstantinou (Greece)
- P2.046** Sensitivity and specificity of RareBit visual field testing for glaucoma in the optometry service  
J. Przewdziecka-Dolyk, A. Matkowska, E. Fidewicz, J. Szkudlarek-Wodzinska, E. Walek, M. Misiuk-Hojlo (Poland)
- P2.047** Inter-observer and inter-device agreement for the assessment of anterior-chamber angle photography with an automated gonioscope  
R. Scotto, C.A. Cutolo, M. Iester, C.E. Traverso (Italy)
- P2.048** Comparison of central corneal thickness with ultrasound pachymetry, non-contact specular microscopy, hand held pachymetry and spectral domain optical coherence tomography  
G. Demirci, G. Gulkilik, S. Karaman Erdur, C. Tanriverdio, S. Kocabora, M. Ozsutcu (Turkey)
- P2.049** Meningioma misdiagnosed as progressing glaucoma - A case report  
J. Wierzbowska, M. Jacunski (Poland)



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- P2.050** Relationship between optical coherence tomography angiography vessel density and severity of glaucomatous visual field loss in myopic eyes: comparison with retinal nerve fiber layer thickness  
S.H. Lee, E.J. Lee, T.-W. Kim (Republic of Korea)
- P2.051** 2-year results from the HORIZON trial: a randomized study of a Schlemm's canal microstent for reduction of IOP in primary open angle glaucoma  
N. Pfeiffer (Germany)
- P2.052** Comparison of signal alteration in optic nerve head on 3DT2 MRI between glaucoma and optic atrophy  
J.Y. Lee, H.J. Park (Republic of Korea)
- P2.053** Correlation of the disc damage likelihood scale (DDLS) with retinal nerve fiber layer (RNFL) using optical coherence tomography (OCT)  
P. Formichella, R. Annon, F. Zeri, A.J. Tatham (United Kingdom)
- P2.054** A comparison of relative diagnostic precision between the Compass fundus perimeter and the Humphrey Field Analyzer  
L.M. Rossetti<sup>1</sup>, G. Montesano<sup>1</sup>, S.R. Bryan<sup>2</sup>, P. Fogagnolo<sup>1</sup>, F. Oddone<sup>1</sup>, A.M. McKendrick<sup>3</sup>, A. Turpin<sup>3</sup>, P. Lanzetta<sup>1</sup>, A. Perdicchi<sup>1</sup>, C.A. Johnson<sup>4</sup>, D. Garway-Heath<sup>2</sup>, D. Crabb<sup>2</sup> (<sup>1</sup>Italy, <sup>2</sup>United Kingdom, <sup>3</sup>Australia, <sup>4</sup>USA)
- P2.055** Peripapillary retinal nerve fiber layer thickness and Bruch's membrane opening-minimum rim width assessment in nonglaucomatous eyes with large and small discs  
S. Bayraktar, G. Sultanova, B. Izgi (Turkey)
- P2.056** Diagnostic capacity of the retinal vascular density versus the study of the retinal nerve fiber layer thickness and macular ganglion cell complex  
L. Morales Fernandez, N. Guemes Villahoz, L. Salazar Quiñones, J.M. Martinez de la Casa, F. Saenz Frances, J. Garcia Feijoo (Spain)
- P2.057** Does electromagnetic radiation of everyday life gadgets influence the signal of the sensor contact lens triggerfish?  
C. Faschinger, D. Rabensteiner (Austria)
- P2.058** Evaluating the pallor at the optic nerve head by retinography colorimetric assessment in glaucoma patients  
L. Salazar Quiñones, C.D. Méndez Hernández, S. Wang, J. García Feijoo (Spain)
- P2.059** Self-measurement with Icare HOME tonometer  
M. Atanasovska Velkovska, Š. Štunf Pukl, B. Cvenkel (Slovenia)
- P2.060** Self-monitoring of intraocular pressure using Icare Home tonometry in clinical practice  
B. Cvenkel, M. Atanasovska Velkovska, Š. Štunf Pukl (Slovenia)
- P2.061** Central visual field defect associated with the location of retinal nerve fibre layer defect  
H.S. Kim, M.K. Shin, Y.H. Kim, J.A. Bae, J.W. Jung, S.K. Park (Republic of Korea)
- P2.062** OCT angiography and color Doppler imaging in glaucoma diagnostics  
N. Kuryshva (Russia)
- P2.063** Correlation among foveal avascular zone (FAZ) detected by OCT angiography and inner retinal thickness, and visual field defects in POAG/NTG patients  
T. Fukuchi, R. Igarashi, S. Ochiai, T. Togano, Y. Sakaue, R. Iikawa, A. Suetake (Japan)
- P2.064** Correlation between optic nerve head topography and central corneal thickness in patients with primary open-angle glaucoma  
N. Civcic Kalinic, N. Civcic, V. Civcic (Serbia)
- P2.065** Segmental analysis of the inner macular retinal layer thicknesses as early diagnosis of preperimetric open angle glaucoma  
E.B. Ausin Gonzalez, M. Sanchez Dehesa Saez, J. Iturria Soler, J.M. Ruiz Moreno, A. Royuela (Spain)

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- P2.066** Using a smart contact lens to identify a new biomarker associated with primary open angle glaucoma  
K.R. Martin<sup>1</sup>, K. Mansouri<sup>2</sup>, R.N. Weinreb<sup>3</sup>, R. Wasilewicz<sup>4</sup>, C. Gisler<sup>2</sup>, J. Hennebert<sup>2</sup>, D. Genoud<sup>2</sup>  
(<sup>1</sup>United Kingdom, <sup>2</sup>Switzerland, <sup>3</sup>USA, <sup>4</sup>Poland)
- P2.067** Clinical assessment of optic disc automatic high definition multicolor stereo vs digital monoscopic photographs by glaucoma specialists and by general ophthalmologists  
F. Oddone, C. Carnevale, M. Ferrazza, M. Michelessi, L. Tanga, F. Berardo, I. Riva, L. Agnifili, G. Manni (Italy)
- P2.068** AngioOCT peripapillary microvascular density outperforms standard OCT parameters as a discriminant between different glaucoma severity levels  
J. Barbosa Breda<sup>1</sup>, D. Andrade de Jesus<sup>1</sup>, K. Van Keer<sup>1</sup>, V. Nassiri<sup>1</sup>, G. Molenberghs<sup>1</sup>, L. Abegao Pinto<sup>2</sup>, A. Rocha Sousa<sup>2</sup>, E. Vandewalle<sup>1</sup>, I. Stalmans<sup>1</sup> (<sup>1</sup>Belgium, <sup>2</sup>Portugal)
- P2.069** Effect of macular vascular density on central visual function and macular structure in glaucoma patients  
S. Jeon, H.-Y. Lopilly Park, C.K. Park (Republic of Korea)
- P2.070** Long-term personal experience with second-generation trabecular micro-bypass stents in patients with glaucoma: 3-year outcomes  
F.H. Hengerer, G.U. Auffarth, I. Conrad-Hengerer (Germany)
- P2.071** Implementation of a glaucoma risk factor calculator mobile application (APP) for an early low-tech diagnosis  
D.R. Mazzacane, P.F. Marino, C. Costagliola (Italy)
- P2.072** The correlation of avascular zone with different OCT parameters in patients with glaucoma  
E. Kosior-Jarecka, U. Łukasik, D. Wróbel-Dudzinska, J. Wójcikowska-Karska, T. Zarnowski (Poland)
- P2.073** Molecular-genetic study of primary open-angle glaucoma in patients from Bashkortostan Republic, Russia  
A. Zagidullina, B. Aznabaev, S. Lobov, L. Dzhemileva, R. Khasanova, A. Zainitova, E. Khusnutdinova (Russia)
- P2.074** Changes in corneal endothelial cell density in patients with different stages of open-angle glaucoma  
Y. Saldan, N. Kapshuk, Y. Saldan, L. Khrystych (Ukraine)
- P2.075** Characteristic of optic nerve head in glaucoma patients  
A. Miljkovic, M. Trenkic Božinovic, V. Canadanovic, N. Babic (Serbia)
- P2.076** Point-wise correlation between visual field and OCT in open angle glaucoma patients  
P. Cirafici<sup>1</sup>, G. Maiello<sup>2</sup>, C. Ancona<sup>1</sup>, A. Masala<sup>1</sup>, C.E. Traverso<sup>1</sup>, M. Iester<sup>1</sup> (<sup>1</sup>Italy, <sup>2</sup>Germany)
- P2.077** Quality of glaucoma referrals from primary care to the hospital eye service in a teaching hospital - A review  
L. Rogerson, E. Ridyard, J. Van der Hoek (United Kingdom)
- P2.078** Comparison of reproducibility in glaucoma severity evaluation between structural measurement and functional test  
D. Shiba, S. Adachi, E. Hirano, T. Ono, K. Yuki, K. Tsubota (Japan)
- P2.079** The comparison of central macular thickness in cases with having pseudo exfoliation syndrome and ocular hypertension  
U. Keklikci (Turkey)
- P2.080** Expediency of the automated perimetry using the Goldmann V stimulus size in visually impaired glaucoma patients  
M. Paolera, N. Kasahara (Brazil)
- P2.081** A comparison of retinal nerve fiber layer thickness to visual field sensitivity in patients with glaucoma  
V. Andreic (Serbia)
- P2.082** Expression profile of micro RNAs in tears. A fingerprint for the pre-clinical phase of primary open-angle glaucoma versus ocular hypertension  
M.D. Pinazo-Durán, V. Zanón-Moreno, J. Raga-Cervera, S.M. Sanz-González, J.J. García-Medina (Spain)



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- P2.083** Potential metabolic biomarkers in glaucoma patients and their regulation in response to hypoxia  
M. Kolko<sup>1</sup>, L.M. Dalgaard<sup>1</sup>, J.V. Jensen<sup>1</sup>, L. Hildegaard Bergersen<sup>2</sup>, N.V. Olsen<sup>1</sup>, B. Hassel<sup>2</sup>, F.A. Chaudhry<sup>2</sup>, R. Vohra<sup>1</sup> (<sup>1</sup>Denmark, <sup>2</sup>Norway)
- P2.084** Structure-function relationship between SD-OCT multilayered macular analysis and visual field 24-2 and 10-2 defects, in perimetric glaucoma  
D. Rastelli, S. Giammaria, M. Michelessi, G. Manni (Italy)
- P2.085** Color-coded normative classification vs continuous data by Spectral Domain-Optical Coherence Tomography for detecting glaucoma: translating the statistics into clinical practice  
M. Michelessi, I. Riva, E. Martini, M. Figus, P. Frezzotti, L. Agnifili, G. Manni, L. Quaranta, S. Miglior, C. Posarelli, F. Oddone (Italy)
- P2.086** 24-hour continuous monitoring of intraocular pressure-related fluctuations in progressing primary open angle glaucoma using a contact lens sensor  
C. Schweitzer, C. Andrebe, L. Tellouck, S. Roseng, F. Malet, T. Gaboriau (France)
- P2.087** The role of phacoemulsification in the management of primary angle-closure glaucoma  
I. Yalvac, R.B. Kucumen (Turkey)
- P2.088** Aphakic glaucoma after congenital cataract surgery  
H. Marey, A.E.R. El Sebaey (Egypt)
- P2.089** A case of childhood glaucoma with deletion in the 6p25 region containing FOXC1 gene  
K. Kawase, Y. Niimi, T. Yamamoto, T. Yamamoto, T. Fukao, K. Kurata, N. Tachibana, K. Hosono, Y. Hotta (Japan)
- P2.090** Large cup/disc ratio in pediatric age. SD-OCT and OCT-A evaluation  
D. Hipólito-Fernandes, M.-E. Luis, N. Moura-Coelho, S. Crisóstomo, A. Paixão, C. Brito, A. Toscano (Portugal)
- P2.091** The importance of anterior segment imaging in assessing pediatric traumatic intra-ocular hypertension: a case report  
P. Arede, J. Portelinha, H. Spohr, H. Prior Filipe, S. Patrício (Portugal)
- P2.092** Secondary glaucoma with bilateral clear lens subluxation and ciliary staphyloma in achondroplasia: a case study  
S. Karkera, S. Deshmukh (India)
- P2.093** Schlemm's canal size and correlation study in a healthy children Caucasian population by optical coherence tomography  
B. Kudsieh, J.I. Fernandez-Vigo, C. Fernandez-Vigo, L. De Pablo, A. Macarro, I. Almorin, I. Sanchez, J.A. Fernandez-Vigo, J. García Feijóo (Spain)
- P2.094** Corneal ring segment in paediatric patients with keratoconus  
P. Arribas Pardo, C. Mendez Hernandez, D. Puertas Bordallo (Spain)
- P2.095** Confocal microscopy as a differential diagnostic tool between Iridocorneo endothelial syndrome and Rieger anomaly  
A. Burchakchi, A. de Gainza, D. Bakofski (Argentina)
- P2.096** Assessment of lintraocular pressure using ocular response analyzer and goldmann applanation tonometry before and after penetrating keratoplasty  
A. Wassef, K. Mansour, S. Essmat, H. Magdy (Egypt)
- P2.097** Comparison of choroidal macular and peripapilar thickness in patients with pseudoexfoliation glaucoma vs controls using optical coherence tomography  
A. Figueiredo, D. Dias, D. José, R. Reis, I. Sampaio, M.J. Menéres (Portugal)
- P2.098** Corneal biomechanics and compared tonometry after lamellar keratoplasty  
P. Toro Utrera, C. Mendez Hernandez, R. Sanchez Jean, C. Fernandez Perez, J.M. Benitez Del Castillo, J. Garcia Feijoo (Spain)
- P2.099** Secondary glaucoma in neurofibromatosis type 2: a case report  
M. Wasik, S. Sharma, D. Halliday, A. Parry (United Kingdom)

Monday, 21 May 2018

10.00 - 10.30 Poster Session 3

Poster Area

**Follow-up**

Chairmen: **Anthony Khawaja** (United Kingdom), **Hans G. Lemij** (Netherlands),  
**Ananth C. Viswanathan** (United Kingdom)

- P3.001** MRI evaluation of Ahmed glaucoma valve bleb and correlation to intraocular pressure in neovascular glaucoma  
**C. Kalamkar, A. Mukherjee** (India)
- P3.002** Retinal nerve fiber layer, minimal rim width and macular thickness changes after femtosecond laser-assisted lens surgery  
**J. Reñones, B. Estévez, J.M. González Martín, H. Carreras, V. Rodríguez, A. Antón** (Spain)
- P3.003** Visual field test based on virtual reality: design and implementation of the APP MyVisualField® (MVF) for smartphones  
**D. Paoli, P. Basso, L. Chittaro, C.E. Traverso** (Italy)
- P3.004** Long term effect of prostaglandin analogues on central corneal thickness  
**B.J. Cho, K.E. Kang** (Republic of Korea)
- P3.005** The effect of phacoemulsification on intraocular pressure in normal and glaucoma patients  
**W. Suh** (Republic of Korea)
- P3.006** The influence of antiangiogenic therapy on internal retina layers in patients with age-related macular degeneration and glaucoma  
**A. Fursova, M. Tarasov, I. Niculich, N. Litvinova, M. Vasilyeva** (Russia)
- P3.007** Differences in the response of the intraocular pressure after ozurdex injection according to the use of previous ocular antihypertensive treatment or the type of glaucoma  
**C. Pujadas-Garcia, E. Cantal, D. Mora, C.L. Moser** (Spain)
- P3.008** Trail Traced Threshold Test (T4) algorithm shows reduced variability compared to the Swedish Interactive Thresholding Algorithm (SITA)  
**B. Petriti, M. Miranda, H. Zhu, P.J. Mulholland, D.P. Crabb, C. Bronze, R.S. Anderson, D.F. Garway-Heath** (United Kingdom)
- P3.009** Study of intraocular pressure after implantation of a phakic collamer intraocular lens with a central hole  
**P.P. Rodriguez-Calvo, I. Rodriguez-Una, L. Fernandez-Vega Cueto, C. Lisa, A. Fernandez-Vega Cueto, J.F. Alfonso** (Spain)
- P3.010** Syndrome of pigment dispersion, the results of 10 years of follow-up  
**T. Iureva** (Russia)
- P3.011** Progression of visual field loss before and after trabeculectomy  
**S. Kanayama** (Japan)
- P3.012** Analyzing test-retest variability of cluster sensitivity incorporating the structure-function relationship  
**T. Togano, G. Montesano, D. Garway-Heath** (United Kingdom)
- P3.013** Clinical findings of glaucomatous patients with newly diagnosed brain tumours: a tertiary referral centre-based retrospective study  
**G. Triolo, A.G. Nita** (United Kingdom)
- P3.014** A glaucoma progression risk assessment hand-held chart. Feasibility and preliminary validation  
**S.A. Gandolfi, R. Altafini, P. Brusini, M. Ciancaglini, P. Frezzotti, M. Iester, G. Marchini, G. Manni, E. Martini, G. Milano, A. Perdicchi, A. Rapisarda, T. Rolle, G. Rossi, T. Salgarello, M. Uva, L. Rossetti, L. Agnifili, M. Figus, L. Quaranta, P. Bettin** (Italy)
- P3.015** Infrared pupillometry assessing pupil dilation and glaucoma severity in the pseudoexfoliation syndrome  
**A. George, A. Bank, I. Francis, A. Agar** (Australia)



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- P3.016** Comparison of visual field results within 10 degree between 24plus and 24-2 visual field test locations in patients with moderate and severe stage glaucoma  
H. Nomoto, C. Matsumoto, T. Kimura, S. Okuyama, Y. Shimomura (Japan)
- P3.017** Comparison of trabeculectomy and gel stent XEN® in chronic open-angle glaucoma: a retrospective study  
J.A. Salinas López, M.T. Marcos Parra (Spain)
- P3.018** Intraocular pressure elevation following pars plana vitrectomy for diabetic retinopathy  
Z. Kayaarasi Ozturker, E. Yaman Pinarci, A. Akman (Turkey)
- P3.019** Comparison of anterior chamber angle and iris measurements by anterior segment optical coherence tomography in primary juvenile glaucoma and normal subjects  
B. Basarir, I. Pasaoglu, C. Altan, B. Solmaz Satana, A. Inal, F.E. Onmez, T. Yasar, M. Taskapili (Turkey)
- P3.020** Evaluation of functional filtering bleb using optical coherence tomography angiography  
J.H. Seo, K.H. Park, Y.A. Kim, Y. Lee (Republic of Korea)
- P3.021** Changes in corneal pulse characteristic after canaloplasty: a 12-month follow-up study  
M. Danielewska, M. Placek, A. Kicinska, K. Lewczuk, M. Rekas (Poland)
- P3.022** Comparison of IOP change after cataract surgery in normal and patients with open angle glaucoma  
H.Y. Jae, J.H. In, D.K. Kim, S.Y. Lee (Republic of Korea)
- P3.023** Regional differences in intraocular pressure seasonal variation in patients with primary open-angle glaucoma  
M. Shimizu, Y. Ikeda, K. Mori, K. Yoshii, M. Ueno, C. Sotozono, S. Kinoshita (Japan)
- P3.024** Follow up of correlation between square root of loss variance and mean defect in primary open angle glaucoma  
D. Janjic, J. Janjic (Serbia)
- P3.025** Choroidal thickness changes after discontinuing topical treatment with prostaglandin analogues in preperimetric open angle glaucoma  
J. Iturria Soler, E.B. Ausin Gonzalez, J.M. Ruiz Moreno, M. Sanchez Dehesa Saez, V.A. Gerena Arévalo, A. Royuela, E. Casado López De La Franca (Spain)
- P3.026** Giant bleb Post-XEN implant: a follow-up with OCT of the anterior segment of three cases  
S. Quijada Angeli, I. Pana, M. Sánchez-Dehesa Saez, J. Iturria Soler, M. Hijos Gastón (Spain)
- P3.028** Agreement between ophthalmologists when assessing visual field tests  
A. Ferreras, G. Olavarri, J.M. Martinez de la Casa, J.L. Urcelay, B. Monsalve (Spain)
- P3.029** Hematoma in the scleral lake: a non-penetrating deep sclerectomy complication  
J.C. Herranz Heras, C. Navarro Perea, B. Alonso Martin, J.L. Torres Peña, E. Gutiérrez Díaz (Spain)
- P3.030** Cataract surgery in patients with end-stage glaucoma  
D. Raonic<sup>1</sup>, B. Dacic-Krnjaja<sup>2</sup>, B. Scepcovic<sup>1</sup> (<sup>1</sup>Montenegro, <sup>2</sup>Serbia)
- P3.031** Comparison of intraocular pressure measurements between Icare PRO tonometer, Goldmann applanation tonometer and non-contact tonometer in healthy and glaucomatous eyes  
T. Queirós, M. Rodrigues, C. Vale, J. Serino, T. Paíñas, G. Morgado, N. Lopes (Portugal)
- P3.032** Peculiarity of intraocular pressure and ocular perfusion pressure in primary normal-tension glaucoma patients  
Z. Veselovskaya, N. Veselovskaya, I. Zerebko (Ukraine)
- P3.033** Evaluation of patient experience in "virtual" glaucoma stable monitoring clinics  
M. Ting, A. Martins, A. Kotecha, H. Jayaram (United Kingdom)
- P3.034** Efficacy of 5-fluorouracil subconjunctival injections in the post-XEN gel stent implantation follow-up period  
E. Walek, J. Przewdzicka-Dolyk, I. Helemejko, M. Helemejko, M. Misiuk-Hojlo (Poland)



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- P3.035** Comparison of rate of progression between treated primary open angle glaucoma and treated exfoliative open angle glaucoma  
S. Kostianeva-Zhelinska, M. Konareva-Kostianeva, M. Atanasov (Bulgaria)
- P3.036** Glaucoma progression: an individual approach to the assessment of rates and causes  
Z. Muravey (Ukraine)
- P3.037** Involuntary injection of viscoelastic through corneal stroma in a case of post-surgical atalamia after filtering surgery  
J. Paz Moreno-Arrones, M.A. Teus, A. Rodero Serrano, G. Laucirika Saez (Spain)
- P3.038** Impact of Inter-eye visual field asymmetry on subsequent disease progression in patients with primary open-angle glaucoma  
E. Bak, A. Ha, D.W. Kim, J.W. Jeoung, K.H. Park, Y.K. Kim (Republic of Korea)
- P3.039** Changes of functional and biomechanical parameters in normal-tension glaucoma patients receiving a magnesium-containing drug  
L. Arutyunyan, E. Iomdina, S. Anisimov, S. Anisimova (Russia)
- P3.040** Changes in *lamina cribrosa* depth versus the rate of retinal nerve fiber layer thinning following glaucoma surgery  
P. Krzyzanowska-Berkowska, K. Czajor, I. Helemejko, D.R. Iskander (Poland)
- P3.041** Hereditary juvenile open angle glaucoma - Management and long term follow up  
C. Feraru, D. Chiselita, A. Pantaloni (Romania)
- P3.042** Therapeutic compliance and primary open angle glaucoma  
W. Ammari, S. Mbarek, A. Mahmoud, M. Khairallah, A. Bouabana, R. Messaoud (Tunisia)
- P3.043** Iris-trabecular contact index change after cataract surgery in acute angle closure glaucoma  
J. Park (Republic of Korea)
- P3.044** Mid term and long term outcomes following acute primary angle closure in a tertiary care hospital in South India  
R. David, S. Balekudaru, S. Shah (India)
- P3.046** Phacoemulsification as a preventing open-angle glaucoma in pseudoexfoliative patients. When it is enough  
V. Melnyk (Ukraine)
- P3.047** Pigmentary glaucoma, clinical and therapeutic, our experience  
B. Hakim, D. Meriem, K. Souad, S. Amina, A. Mohamed, A.Y. Ilhem, T. Malika (Algeria)
- P3.048** Correlation of ganglion cell complex and ophthalmic artery resistivity index in pseudoexfoliation syndrome: preliminary results  
T. Kocaturk, Ö. Key, Y. Durum, H. Çakmak, I. Kurt Omürlü (Turkey)
- P3.049** Management of a unilateral glaucoma in a patient with Sturge-Weber syndrome and ipsilateral ocular haemangiomas  
L. Flores de los Reyes, N. Mendieta Rasós, J. Suárez Jáuregui, L. Sararols Ramsay, M. Guarro Miralles (Spain)
- P3.050** Incidence and treatment of elevated intraocular pressure after pars plana vitrectomy with silicon oil implantation due to primary retinal detachment  
M. Yaneva (Bulgaria)
- P3.051** Intravitreal fluocinolone acetonide and intraocular pressure: 1 year of follow-up in a clinical setting  
J. Coelho, A.C. Abreu, B. Pessoa, A. Meireles, M.J. Menéres (Portugal)
- P3.052** Changes in peripapillary retinal nerve fiber layer thickness in patients with secondary glaucoma due to ocular amyloidosis after phacoemulsification cataract surgery  
V. Lages, J. Coelho, C. Abreu, A. Figueiredo, I. Sampaio, R. Reis, M.J. Menéres (Portugal)



**Treatment primary open-angle glaucoma and treatment angle-closure glaucoma**

Chairmen: **Esther Hoffmann** (Germany), **Francesco Oddone** (Italy),  
**Gordana Sunaric Mégevand** (Switzerland)

- P4.001** A new XEN Gel stent internal ostium coagulum blockage solution  
**A. Olgun, E. Duzgun, M. Karapapak** (Turkey)
- P4.002** Morphological change of corneal endothelial cells post Rho-associated protein kinase inhibitor ripasudil 0.4% eye-drop instillation (case study)  
**Y. Maruyama, Y. Ikeda, K. Mori, M. Ueno, K. Imai, Y. Yamamoto, H. Yoshikawa, C. Sotozono, S. Kinoshita** (Japan)
- P4.003** Post-treatment inflammation following selective laser trabeculoplasty in Afro-Caribbeans with primary open-angle glaucoma  
**T. Realini, G. Balasubramani** (USA)
- P4.004** Comparison of the mean decrease in central corneal thickness by topical latanoprost 0.005% and topical travoprost 0.004% drops in patients with primary open angle glaucoma  
**A. Rauf** (United Kingdom)
- P4.005** Conjunctival Implants to manage chronic Seidel and repair bleb holes  
**G. Barreto-Fong** (Peru)
- P4.006** Effect of Palmitoylethanolamide on inner retinal function in stable glaucoma patients. A prospective, randomized, single blind, crossover, clinical trial by pattern electroretinogram  
**G.C. Rossi, F. Bettio, P. Piccinini, C. Lumini, E. Picasso, G.M. Pasinetti, L. Scudelle** (Italy)
- P4.007** Results of 40 Ex-Press implantation in open-angle glaucoma  
**E. Conesa Hernández, C. Montón, E. Mata, C. De Pablo** (Spain)
- P4.008** Study of the ocular surface in glaucoma patients after Ex-Press implantation  
**E. Mata, E. Conesa Hernández, C. Montón, C. De Pablo** (Spain)
- P4.009** Results of surgical treatment of advanced glaucoma with collagen antiglaucomatous drainage Xenoplast and subtenon implantation of the Xenoplast devices around the optic nerve  
**S. Anisimova, S. Anisimov, L. Arutyunyan** (Russia)
- P4.010** Retrospective analysis of outcomes with ab interno gel implant in the treatment open angle glaucoma patients  
**M.S. Kocabora, C. Yilmazli, S. Karaman Erdur, A. Asici** (Turkey)
- P4.011** QUALity of LIfe and COntrast Sensitivity based study in patients with glaucoma  
**P.F. Marino, G. Albioni, N. Benedetti, D. Capobianco, V. Carbè, L. de Polo, G. Fanton, R. Giannini, N. Lavermicocca, P. Malfatti, A. Mauro, C. Sannace** (Italy)
- P4.012** Real-world outcomes of selective laser trabeculoplasty in the English National Health Service  
**A. Khawaja<sup>1</sup>, J. Campbell<sup>2</sup>, I. Keyzor<sup>1</sup>, N. Kirby<sup>1</sup>, A. McNaught<sup>1</sup>** (<sup>1</sup>United Kingdom, <sup>2</sup>USA)
- P4.013** Kissing choroidal detachment after previously success xen glaucoma implant  
**L.I. Bernal Montesdeoca, J. Reñones De Abajo, L.B. Alfaya Muñoz** (Spain)
- P4.014** Long-term surgical outcomes of trabeculotomy ab-externo combined with deep sclerectomy in primary open angle glaucoma: 10 year follow-up study  
**N. Toyokawa, H. Kimura, S. Kuroda** (Japan)
- P4.015** Two year results of modified trabeculectomy. Smart or phaco-smart?  
**C. Terzidou, A. Trivli, G. Dalianis** (Greece)

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- P4.016** Effectiveness of combined phacoemulsification with modified tunnel trabeculopuncture in patients with open-angle glaucoma. Five years of follow up  
V. Melnyk (Ukraine)
- P4.017** Short-term clinical results of trabecular micro-bypass stent implantation combined with cataract surgery in Japanese patients  
K. Kano, Y. Kuwayama, N. Okazaki, R. Kuwamura, J. Oi (Japan)
- P4.018** Kahook Dual Blade: comparative study of combined cataract plus ab-interno trabeculectomy vs cataract  
N. Ventura Abreu<sup>1</sup>, J.M. Martinez de la Casa<sup>1</sup>, L. Morales Fernandez<sup>1</sup>, F.J. Moreno Morillo<sup>1</sup>, G. Lazzano Gomez<sup>2</sup>, J. Garcia Feijoo<sup>1</sup> (<sup>1</sup>Spain, <sup>2</sup>Mexico)
- P4.019** Comparison of IOP reduction after iStent inject<sup>®</sup> implantation in POAG eyes depending on lens condition and previous surgery  
F. Rüfer, M. Matthäi, J. Förster, T. Herbst, D. Holland (Germany)
- P4.020** The efficacy and safety of the low intensity ultrasound treatment in patients with open angle glaucoma  
H.W. Bae, C.Y. Kim, G.J. Seong (Republic of Korea)
- P4.021** Ultrasound ciliary plasty to treat glaucoma. Efficacy and safety results at 2 years on 152 patients  
J.-F. Rouland, F. Aptel (France)
- P4.022** 24-hour contact lens sensor monitoring of intraocular pressure-related profiles in medical versus surgical glaucoma treatment  
M.J. Muniesa Royo, J. Ezepeleta Campaña, I. Benítez, M. Sánchez de la Torre (Spain)
- P4.023** The extent of intraocular pressure changes in glaucoma treated patients undergoing anti-VEGF factor injections for age related macular degeneration  
M. Bafa, M. Lygerou, I. Kastis, S. Papassavas, A. Skoufaras, T. Papadopoulos, G. Makrygiannis (Greece)
- P4.024** Pulse-wave analysis of optic nerve head circulations before and after medical or surgical treatment in eyes with glaucoma  
K. Ishida, T. Masai, A. Anraku, T. Takumi, G. Tomita (Japan)
- P4.025** The effectiveness of non-invasive surgery - Trabectomy ab interno in patients with open-angle glaucoma  
N. Kapshuk, L. Khrystych (Ukraine)
- P4.026** Phacoemulsification plus ABI trabeculectomy - Kahook dual blade and endocyclophotocoagulation in patients with primary open angle glaucoma and cataract  
M.C. Ponte, J.C. Izquierdo, F. Quezada, I. Ramirez, B. Rubio, L.A. Cañola-Ramirez (Peru)
- P4.027** Prospective randomized study comparing Ex-Press to trabeculectomy: 6 months results  
V. Soto Biforcós, A. Ibañez Muñoz, A. Arrieta Los Santos, E. Lizuain Abadia, O. Rua Galisteo, M. Chacon Gonzalez, L. Rodriguez Vicente, I. Ortega Renedo (Spain)
- P4.028** Rationale of ab interno trabeculotomy as an antiglaucoma component in combined surgery of cataract and glaucoma in patients with far-advanced stage of glaucoma  
D. Ivanov (Russia)
- P4.029** iStent inject<sup>®</sup> trabecular micro-bypass implantation vs. micro-invasive Kahook dual-blade goniotomy both combined with phacoemulsification: early 4-month results  
T.S. Arnljots, M.A. Economou (Sweden)
- P4.030** iStent inject<sup>®</sup> trabecular micro-bypass implantation as a stand-alone procedure or in combination with phacoemulsification cataract surgery: 6-month retrospective case review  
M.A. Economou, T.S. Arnljots (Sweden)
- P4.031** Clinical effectiveness of brinzolamide 1%-brimonidine 0.2% fixed combination for normal tension glaucoma in South Korean  
I.T. Kim, J.M. Kim, S.H. Shim, K.H. Park (Republic of Korea)



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- P4.032** Interim 12-month results from two centres of an open-label study of the InnFocus MicroShunt® glaucoma drainage System in patients with primary open-angle glaucoma  
**F. Aptel, E. Bluwol, M. Graber, Y. Lachkar** (France)
- P4.033** TRPC ion channels regulate extracellular matrix gene transcription and proliferation in human lamina cribrosa cells via activation of NFATc3 signaling pathway  
**M. Irnaten<sup>1</sup>, G. O'Malley<sup>1</sup>, A.F. Clark<sup>2</sup>, C.J. O'Brien<sup>1</sup>** (<sup>1</sup>Ireland, <sup>2</sup>USA)
- P4.034** Real world prescription patterns of beta-blocker-free combination treatment in the UK  
**Y.S. Kim<sup>1</sup>, L.R. Torres<sup>1</sup>, A. Durus<sup>1</sup>, A. Gondos<sup>2</sup>, V. Bezlyak<sup>1</sup>, D. Viriato<sup>1</sup>, J. Banhazi<sup>1</sup>, N. Boxall<sup>3</sup>, T. Wintermantel<sup>3</sup>, A. Sagkriotis<sup>1</sup>, D.A. Hubatsch<sup>4</sup>** (<sup>1</sup>Switzerland, <sup>2</sup>Germany, <sup>3</sup>United Kingdom, <sup>4</sup>USA)
- P4.035** Long term results of micro-invasive glaucoma surgery (MIGS) with two first generation trabecular micro-bypass stents as a standalone procedure compared to prostaglandin in newly diagnosed open-angle glaucoma (OAG) subjects  
**A. Carceller** (Spain)
- P4.036** Low power selective laser trabeculoplasty (SLT) Repeated yearly as primary treatment in open angle glaucoma(s): long term comparison with conventional SLT and ALT  
**L. Varano, N. Ungaro, S. Saccà, G. Calzetti, S.A. Gandolfi** (Italy)
- P4.037** Interim single-centre 12-month results from an open-label study of the InnFocus MicroShunt® glaucoma drainage system in patients with primary open-angle glaucoma  
**H. Beckers, S. Kujovic-Aleksov, C. Webers** (Netherlands)
- P4.038** Long-term results of standalone micro-invasive glaucoma surgery (MIGS) with two first-generation trabecular micro-bypass stents in eyes with open-angle glaucoma (OAG) not controlled with one preoperative medication  
**J.M. Martinez de la Casa** (Spain)
- P4.039** Outcomes for OAG subjects on two medications who underwent implantation of one, two or three trabecular micro-bypass stents after 54 months  
**A. Jünemann** (Germany)
- P4.040** Collagen matrix implant (Ologen) combined with mitomycin C versus mitomycin C in filtration glaucoma surgery  
**D. Castanera, M.J. Muniesa Royo, J. Ezpeleta Capaña, I. Caral Vanaclocha, I. Benítez** (Spain)
- P4.041** Evaluation of bleb morphology and reduction in IOP and glaucoma medication following implantation of XEN in selected glaucoma patients  
**A. Llovet, M.I. Canut, M. Mármol** (Spain)
- P4.042** Efficacy of subconjunctival bevacizumab associated to mitomycin-C on glaucoma filtering surgery  
**J.C. Mesa-Gutierrez** (Spain)
- P4.043** Two-stage continuum of non-penetrating deep sclerectomy  
**N. Volkova** (Russia)
- P4.044** Efficacy and safety of brinzolamide/brimonidine fixed combination compared to concomitant administration of brinzolamide and brimonidine in open-angle glaucoma or ocular hypertension  
**Y. Astakhov<sup>1</sup>, N. Wang<sup>2</sup>, D.-W. Lu<sup>3</sup>, Y. Pan<sup>2</sup>, T. Iureva<sup>1</sup>, A. Adewale<sup>4</sup>, T.M. Walker<sup>4</sup>** (<sup>1</sup>Russia, <sup>2</sup>China, <sup>3</sup>Taiwan, <sup>4</sup>USA)
- P4.045** Early clinical outcomes of micropulsed transcleral cyclophotocoagulation in open angle glaucoma  
**C. Altan, B. Satana, B. Basarir, I. Pasaoglu, T. Yasar** (Turkey)
- P4.046** Long-term IOP and medication reduction with second-generation MIGS trabecular micro-bypass stents for OAG patients on 1 preoperative medication  
**K. Schargel, J. Belda, L. Rial** (Spain)
- P4.047** Pooled phase 3 efficacy analysis of a once-daily fixed-dose combination (FDC) of netarsudil 0.02% and latanoprost 0.005% in ocular hypertension (OHT) and open-angle glaucoma (OAG)  
**S. Asrani, H. McKee, B. Shultz Scott, R. Lewis, C. Kocpozynski, T. Heah** (USA)

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- P4.048** Pooled safety analysis of a once-daily fixed-dose combination (FDC) of netarsudil 0.02% and latanoprost 0.005% in ocular hypertension (OHT) and open-angle glaucoma (OAG)  
J. Bacharach, E. Holland, H. Sheng, B. Shultz Scott, R. Lewis, C. Koczyński, T. Heah (USA)
- P4.049** The efficacy of deep sclerectomy on posture induced intraocular pressure changes  
V. Aragno, P. Hamard, C. Baudouin, A. Labbé (France)
- P4.050** Ocular pulse amplitude and the use of polarized water (Junfeng Water®) in open angle glaucoma  
G. Renieri<sup>1</sup>, Y. Liu<sup>2</sup>, X. Zhao<sup>2</sup>, F. Liu<sup>2</sup>, H. Thieme<sup>1</sup>, D. Eisenmann<sup>3</sup> (<sup>1</sup>Germany, <sup>2</sup>China, <sup>3</sup>Switzerland)
- P4.051** Trabeculectomy ab interno combined with phacoemulsification  
E. Tomilova, M. Pravosudova (Russia)
- P4.052** Photobiomodulation in the complex treatment of primary open-angle glaucoma using MACDEL-08 device  
A. Kleyman, O. Kiseleva, E. Iomdina, A. Bessmertny, P. Luzhnov, D. Shamaev (Russia)
- P4.053** Bleb compression sutures in management of overfiltration after antiglaucoma surgery  
T. Zarnowski, D. Wróbel-Dudzinska, E. Kosior-Jarecka (Poland)
- P4.054** Impact of laser pulse duration on the reduction of intraocular pressure during selective laser trabeculoplasty  
S. Stunf Pukl, B. Drnovšek Olup, M. Atansovska Velkovska, B. Cvenkel (Slovenia)
- P4.055** Antiglaucoma treatment methods are predictors for an intraocular pressure decrease in patients with primary open angle glaucoma after endoscopic cyclophotocoagulation  
M.P. Wiacek, T. Miszczuk, M. Drobek-Słowik, A. Palacz, A. Lipinski, M. Modrzejewska (Poland)
- P4.056** Efficacy and safety of iStent trabecular microbypass stent in open angle glaucoma  
J.Y. Rhew, T.H. Lee, K.H. Lee (Republic of Korea)
- P4.057** Pre-descemet hematoma after non-penetrating deep sclerectomy (NDPS)  
M.D. Lago, B. Alonso, A. De Pablo, J.L. Torres, J.C. Herranz (Spain)
- P4.058** Combined laser-surgical treatment of primary open-angle glaucoma and complicated cataracts  
T. Sokolovskaya, D. Magaramov, V. Teplovodskaya, V. Yashina (Russia)
- P4.059** Three year results of i-Stent + phacoemulsification cataract surgery for glaucoma  
A. Lewis, D. Ramanathan, C. Wong, R. Imonikhe, E. Ansari (United Kingdom)
- P4.060** Influence of antiglaucomatous therapy with latanoprost on optic nerve head blood flow in Caucasian patients with normal tension glaucoma  
A.S. Mursch-Edlmayr<sup>1</sup>, N. Luft<sup>2</sup>, M. Ring<sup>1</sup>, M. Bolz<sup>1</sup> (<sup>1</sup>Austria, <sup>2</sup>Germany)
- P4.061** A comparison between repeat 180-degree and repeat 360-degree selective laser trabeculoplasty  
D. Lee, E. Kweon (Republic of Korea)
- P4.062** Can modern trabeculectomy control long term visual field progression?  
H. Bobat, A. Sepetis, S. Begum, A. Lockwood, J. Kirwan (United Kingdom)
- P4.063** Surgical outcomes and effect of XEN-45 implant on corneal endothelium in open angle glaucoma  
S. Guvenyilmaz, M. Palamar, M. Tehmen, H. Ates (Turkey)
- P4.064** Filtering bleb characteristics in combined cataract surgery with Ex-Press implant vs. non-penetrating deep sclerectomy. Prospective, randomized and multicentre study  
M. Muñoz, A. Antón, M. Castany, A. Gil, A. Martinez, J. Moreno, F. Muñoz Negrete, J. Urcelay (Spain)
- P4.065** Xen45 gel stent - A clinical and in vivo confocal microscopy study  
M. Cardoso, J. Cardigos, S. Crisostomo, G. Neri Pires, D. Hipólito, L. Vieira, I. Domingues, T. Gomes (Portugal)



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- P4.066** Choroidal thickening following non-penetrating deep sclerectomy in open angle glaucoma  
F.J. Muñoz-Negrete, G. Rebolleda, L. Diez-Alvarez, V. de Juan (Spain)
- P4.067** The efficacy of severe surgically-operated primary glaucoma combined laser treatment  
N. Tumanyan, T. Lubimova, E. Ivashchenko (Russia)
- P4.068** Patient-reported outcomes from open angle glaucoma patients treated with bimatoprost sustained release implants extended analysis from the phase I/II study  
I. Stalmans<sup>1</sup>, K. Martin<sup>2</sup>, T. Walters<sup>3</sup>, J.B. Searle<sup>3</sup>, M. Chen<sup>3</sup>, M.L. Goodkin<sup>3</sup>, M. Bejanian<sup>3</sup>, E.R. Craven<sup>3</sup>  
(<sup>1</sup>Belgium, <sup>2</sup>United Kingdom, <sup>3</sup>USA)
- P4.069** One-year efficacy and safety of preservative-free vs preserved prostaglandins eyedrops. Final results of the FREE survey  
J. Majczyk-Ionescu<sup>1</sup>, I. Grabska-Liberek<sup>1</sup>, M.A. Economou<sup>2</sup>, H. Laukeland<sup>3</sup>, J.F. Rouland<sup>4</sup>  
(<sup>1</sup>Poland, <sup>2</sup>Sweden, <sup>3</sup>Norway, <sup>4</sup>France)
- P4.070** Migration of XEN glaucoma implant into the anterior chamber  
E. Ciloglu, A. Ozcan, F. Unal (Turkey)
- P4.071** Supraciliary micro-stent implantation for open-angle glaucoma: multicenter 3-year outcomes  
J. Garcia-Feijoo<sup>1</sup>, J. Dickerson<sup>2</sup> (<sup>1</sup>Spain, <sup>2</sup>USA)
- P4.072** Ultrasound cyclo plasty for treatment of surgery naïve open angle glaucoma patients. Interim results at 1 year of a prospective multicenter clinical trial  
M. Figs<sup>1</sup>, I. Stalmans<sup>2</sup>, S. Melamed<sup>3</sup>, M. Nardi<sup>1</sup>, L. Abegão Pinto<sup>4</sup> (<sup>1</sup>Italy, <sup>2</sup>Belgium, <sup>3</sup>Israel, <sup>4</sup>Portugal)
- P4.073** 12-month results of a prospective, multicenter, randomized comparison of standalone Hydrus versus two iStents for reduction of IOP in open angle glaucoma (COMPARE Trial)  
L. Au (United Kingdom)
- P4.074** Effect of orally administered nitrates on central retinal venous pressure in primary open angle glaucoma patients  
K. Pillunat, E. Spoerl, J. Orphal, L. Pillunat (Germany)
- P4.075** Visco canaloplasty with vs without prolene suture. 12 month results  
J.A. Urcola, S. Zubia, C. Dalmasso, M. Urbano, I. Perez-Landaluce (Spain)
- P4.076** Comparison of methods of administration of intraoperative cytosatics: subconjunctival versus subscleral during non-penetrating deep sclerectomy  
B. Alonso, A. De Pablo, J.L. Torres, M.D. Lago, M. Montero, J.C. Herranz, E. Gutiérrez (Spain)
- P4.077** The bleb needling revision with adjunctive use of 5-fluorouracil in encapsulated bleb  
M. Okka, E. Mirza, R. Oltulu, S. Belviranli, K. Gündüz (Turkey)
- P4.078** Short-term results and safety profile of combined Cypass micro-stent and phacoemulsification in patients with POAG undergoing cataract surgery  
A. Porteous, L. Abeywickrama, P. Bloom, L. Crawley, S. Ameen, F. Ahmed (United Kingdom)
- P4.079** Combined phacoemulsification and Xen Gel Stent implantation in patients with glaucoma and cataract  
M.S. Saricaoglu, S. Akkan, M. Hamurcu (Turkey)
- P4.080** Safety and efficacy of three variants of canaloplasty with phacoemulsification to treat open-angle glaucoma and cataract: 6 month follow-up  
A. Kicinska, M. Danielewska, K. Lewczuk, A. Byszewska, M. Rekas (Poland)
- P4.081** Micropulsed transcleral cyclophotocoagulation in glaucoma management: the Tunisian experience  
W. Zbiba, S. Sayadi, E. Bouayed, I. Elleuch, M. Kharrat (Tunisia)
- P4.082** The effectiveness of the new drainage device's using in the surgery of primary open-angle glaucoma  
N. Zavgorodnya, D. Martynov (Ukraine)



## Monday, 21 May 2018

- P4.083** Primary PSLT for newly diagnosed patients seen in the glaucoma clinic - Current practice in a DGH  
A. Mitchell, A. Raj, A. Yousif, B. Elahi (United Kingdom)
- P4.084** A "real life" prospective study on the efficacy of the XEN45: a European Study  
XEN45 European Group, E. Barenechea<sup>1</sup>, A. Bron<sup>1</sup>, M. Economou<sup>2</sup>, A.M. Fea<sup>3</sup>, M. Figus<sup>3</sup>, R. La Coppola<sup>3</sup>, G. Laffi<sup>3</sup>, C. Lavia<sup>3</sup>, E. Martini<sup>3</sup>, L. Moschetta<sup>3</sup>, C. Posarelli<sup>3</sup>, F. Oddone<sup>3</sup>, G. Roberti<sup>3</sup> (<sup>1</sup>France, <sup>2</sup>Sweden, <sup>3</sup>Italy)
- P4.085** Outcomes of Xen glaucoma implant and phacoemulsification in patient with open angle glaucoma and cataract  
N. Yuksel, F. Ozer, E. Onder (Turkey)
- P4.086** Surgical outcomes of gonioscopy assisted transluminal trabeculotomy with prolene suture for the treatment of open angle glaucoma  
Z. Aktas, S.S. Karamert, A.Y. Üçgöl, C. Bektas (Turkey)
- P4.087** Trabeculectomy outcomes in the elderly  
D. Burton, P. Brogden (United Kingdom)
- P4.088** Efficacy and tolerability of a new thermostable formulation of latanoprost in nanoparticles  
L. Rodriguez, M.S. Passerini, J. Casiraghi, D. Grigera, A. Peyret (Argentina)
- P4.089** Long-term outcomes of MIGS with 2 second-generation trabecular bypass stents combined with topical prostaglandin in eyes with OAG on two preoperative medications  
C. Erb (Germany)
- P4.090** Characteristics of CyPass micro-stent and its clinical effectiveness in COMPASS clinical trial  
V. Raja<sup>1</sup>, R. Uzunov (<sup>1</sup>USA, <sup>2</sup>Bulgaria)
- P4.091** Early and late results of minimal invasive glaucoma surgery with Xen implants  
B. Solmaz Satana, B. Tulu, C. Altan, B. Basarir, I. Basgil Pasaoglu, C. Ozturker, T. Yasar (Turkey)
- P4.092** Medium term outcomes of canaloplasty for glaucoma  
E. Bertelli, P. Santorum, M. Simonazzi (Italy)
- P4.093** Ab-interno canaloplasty combined with phacoemulsification in POAG patients, a 12-month prospective study  
S. Aguilar Munoa, N. Ventura Abreu, J.M. Martinez de la Casa, R. Sanchez Jean, J. García Feijóo (Spain)
- P4.094** Scientific rationale of Double Xen Gel Stent Implant in severe trabecular outflow deficiency  
M. Montali (Italy)
- P4.095** Efficacy of XEN glaucoma Implant in patients with POAG compared to patients with PXFG  
M. Gottfredsdottir (Iceland)
- P4.097** External micropulse diode laser trabeculoplasty for primary open angle glaucoma: a pilot study  
M.C. Aquino, P. Chew (Singapore)
- P4.098** Argon laser iridoplasty as a treatment for plateau iris syndrome: long term outcome of 48 eyes  
N. Romito, E. Bluwol, M. Graber, C. Le Pape, Y. Lachkar (France)
- P4.099** Bleb morphology evaluation in primary angle closure glaucoma (PACG) eyes with functional filtering blebs post phacoemulsification  
K. Wali, M. Bhattacharyya, K. Singh, A. Mutreja, N. Gotmare (India)
- P4.100** Long-term efficacy of Yag-iridotomy in the treatment of angle-closure glaucoma  
V. Dimovska (Macedonia)
- P4.101** Combined operation for treatment of primary angle-closure glaucoma  
I. Pastukh, N. Goncharova, O. Shkil, Y. Diomin (Ukraine)



Monday, 21 May 2018

- P4.102** Argon laser peripheral iridoplasty (ALPI) as initial treatment of acute primary and secondary angle closure glaucoma and its assessment by AS-OCT  
I.A. Placinta, J. Vila Arteaga, C. Martinez Rubio, R. Molina Pallete, P. Martinez Lopez-Corell (Spain)
- P4.103** Phacoemulsification with goniosynechialysis and endoscopic cyclophotocoagulation as a first line treatment in primary angle closure glaucoma  
F. Quezada, J.C. Izquierdo, I. Ramirez, M.C. Ponte, B. Rubio, L.A. Cañola-Ramirez (Peru)
- P4.104** Risk factors of acute attack of primary angle closure glaucoma, their elimination  
A. Marchenko, E. Sorokin, O. Danilov (Russia)
- P4.105** Endoscopic laser cycloplasty in the treatment of patients with angle-closure glaucoma with plateau iris  
A. Markova, N. Pozdeyeva, N. Gorbunova (Russia)
- P4.106** The role of sclerotomies in cataract surgery for glaucoma associated with nanfotalmia  
A. Rosselló, I. Relimpio, M. Parrilla, M.J. Cano, A. Alcantara, B. Ponte (Spain)
- P4.107** Lensectomy vs deep sclerectomy for the treatment of the angle-closure glaucoma patients  
M. Pravosudova, E. Tomilova (Russia)
- P4.108** Two-year outcomes of phacoemulsification for primary angle-closure  
C.A. Cutolo, C. Bonzano, L. Negri, S. Olivari, C. Catti, C.E. Traverso (Italy)
- P4.109** Predictors of endothelial cell loss after phacoemulsification for primary angle-closure  
C. Bonzano, C.A. Cutolo, C. Catti, C.E. Traverso (Italy)
- P4.110** Anisometropia in the course of treatment of malignant glaucoma  
U. Łukasik, E. Kosior-Jarecka, D. Wróbel-Dudzinska, A. Wilkos-Kuc, T. Zarnowski (Poland)
- P4.111** Supraciliary microstent insertion in the management of primary angle-closure  
T. Yap, A. Porteous, S. Ameen, L. Crawley, P. Bloom, F. Ahmed (United Kingdom)

Tuesday, 22 May 2018

11.15 - 11.45 Poster Session 5

Poster Area

**Treatment glaucoma all types, Treatment pediatric glaucoma,  
Treatment secondary glaucomas**

Chairmen: **Luis Abegão Pinto** (Portugal), **Augusto Azuara-Blanco** (United Kingdom),  
**Andrei Brezhnev** (Russia)

- P5.001** The effect of prostaglandin analogues on central corneal thickness  
**G. Kaya** (Turkey)
- P5.002** Aurolab aqueous drainage implant (AADI) in refractory glaucoma - A short term (6 month) outcome study  
**G. Venkataraman** (India)
- P5.003** Non-penetrating deep-sclerotomy vs Ex-press shunt in open angle glaucoma  
**B. Puerto Hernandez, C. López Caballero, C. Sanchez Sanchez, I. Contreras, V. Blazquez** (Spain)
- P5.004** Combined phacoemulsification with non-penetrating deep-sclerotomy and combined phacoemulsification with Ex-press shunt device implantation in open angle glaucoma  
**C. López Caballero, B. Puerto, C. Sanchez Sanchez, I. Contreras, N. Oblanca** (Spain)
- P5.005** Efficacy, safety and predictability of Ex-press implant in 5 years follow-up  
**F. March de Ribot, A. Verdugo, J. Tarrús, T. Torrent, F. Escalada** (Spain)
- P5.006** Changes in factors that affect visual acuity after trabeculectomy  
**M. Radenkovic, J. Djordjevic Jocic, G. Stankovic Babic, P. Jovanovic, M. Zivkovic, G. Zlatanovic, S. Sreckovic, M. Trenkic Bozinovic, M. Petrovic** (Serbia)
- P5.007** Posterior subcapsular cataract formation after Laser iridotomy performed as a preparation for phakic IOL implantation in a high myopia patient  
**K.T. Ma, H.W. Bae, G.J. Seong, C.Y. Kim** (Republic of Korea)
- P5.008** Change in visual acuity after minimally invasive transscleral glaucoma gel microstent implantation with adjunctive mitomycin C  
**M. Lenzhofer, C. Strohmaier, M. Hohensinn, W. Hitzl, M. Gerner, V. Steiner, K. Motloch, H.A. Reitsamer** (Austria)
- P5.009** New surgical technique of combined Ahmed glaucoma valve implantation with trabeculectomy to reduce risk of hypertensive phase: 'double flap method'  
**A. Mukherjee, C. Kalamkar** (India)
- P5.010** Pseudoexfoliation glaucoma and cataract surgery complications  
**M. Janicijevic-Petrovic, T. Sarenac Vulovic, N. Petrovic, K. Janicijevic, S. Radevic, S. Radovanovic, S. Kocic** (Serbia)
- P5.011** A multi-centre interventional case series of 215 ab-interno Xen gel implants for glaucoma, with and without combined cataract surgery  
**A. Karimi, A. Turnbull, C. Dimitriou, B. Bhatia, P. Gouws, A. Hanifudin, N. Amerasinghe, A. Jacob, D. Lindfield** (United Kingdom)
- P5.012** Early outcomes of non-penetrating deep sclerectomy after trabeculectomy failure  
**S. Pachon, I. Rodriguez-Una, F. Perez-Bartolome, P. Rodriguez-Calvo** (Spain)
- P5.013** Prevalence of ocular surface disease in patients with healthy eyes and patients using topical intraocular pressure lowering therapy  
**R. Perez Grossman, G. Barreto-Fong** (Peru)
- P5.014** Xen-augmented Baerveldt tube vs. Ahmed valve implantation in glaucoma - A comparative study from a tertiary center  
**L. Abegão Pinto, D. Cordeiro Sousa, N. Martins Machado, A. Barata, C. Marques Neves** (Portugal)



**Tuesday, 22 May 2018**

- P5.015** Morphological change of corneal endothelial cells post instillation of rho-associated kinase inhibitor eye drops (cross sectional study)  
Y. Ikeda, Y. Maruyama, K. Mori, K. Yoshii, M. Uneno, Y. Yamamoto, K. Imai, H. Yoshikawa, C. Sotozono, S. Kinoshita (Japan)
- P5.016** Early outcomes of micropulse diode transscleral cyclophototherapy for treatment of mild to moderate glaucoma  
C.J. Goenadi, M.C. D'Aquino, M. Suwandono L, P.T.K. Chew (Singapore)
- P5.017** Assessing the effect of using Neukron Ofta on visual field rates of progression in patients with progressing glaucoma  
P. Impagliatelli, D. Kazakova (Bulgaria)
- P5.018** Selective laser trabeculoplasty in primary angle closure glaucoma and primary open angle glaucoma after laser peripheral iridotomy - Long term results  
C. Civriz, D. Kazakova (Bulgaria)
- P5.019** Palmberg suture for treatment of a trabeculectomy overfiltering bleb  
M.M. Suriano, J. Vila-Arteaga, I. Gregori Gisbert (Spain)
- P5.020** Treatment of the Ahmed valve tube extrusion with a patch from its own capsule  
J. Vila-Arteaga, M.M. Suriano, E. Vila-Mascarell (Spain)
- P5.021** Image study of the filtering blebs after implantation of the Ex-Press shunt with the use of the Triton optical coherence tomography  
R. de la Cruz Aguiló, P. Rochina Pérez, V. Pérez Torregrosa, Á. Olate Pérez, L. Manfreda Domínguez, R. Clemente Tomás, P. Neira Ibáñez, M.d.M. Schilt Catafal, I. Gil Hernández, A. Barreiro Rego, A. Duch Samper (Spain)
- P5.023** Comparative study of filtering surgeries with Ologen and mitomycin-C versus mitomycin-C alone  
N. Mendieta Rasós, J. Suárez Jáuregui, R. Herrero Cubero, B. Barrios Moreno, L. Flores de los Reyes, M. Guarro Miralles (Spain)
- P5.024** Transient ciliochoroidal detachment after 360-degree suture trabeculotomy ab interno for open-angle glaucoma: 1-year follow-up  
T. Sato, T. Kawaji (Japan)
- P5.025** Bleb morphology resulting from novel "conjunctival frill incision" in trabeculectomy  
K. Singh, M. Bhattacharyya, S. Kumar, N. Gotmare (India)
- P5.026** Merits of conjunctival frill incision in trabeculectomy-induced astigmatism & patient discomfort  
M. Bhattacharyya, K. Singh, S. Kumar, K. Wali, H. Aggarwal (India)
- P5.027** Results of Xen45 implantation in refractory glaucoma  
E. Baser (Turkey)
- P5.028** Effects of ripasudil (K-115), a Rho kinase inhibitor, on the chemotaxis of human monocytes  
A. Futakuchi, T. Inoue, U. Tsutsumi-Kuroda, H. Tanihara (Japan)
- P5.029** eyeWatch, an innovative adjustable GDD for the treatment of complicated glaucoma  
A. Villamarin, S. Roy, N. Stergiopoulos, A. Mermoud (Switzerland)
- P5.030** The (USA)ge of CsA 0.05% in management of drug-induced allergic blepharoconjunctivitis in glaucoma patients  
A. Loshkareva, D. Maychuk (Russia)
- P5.031** AS-OCT and aqueous humour drainage assessment in non penetrating deep sclerectomy with spurectomy  
C. Martinez Rubio, J. Vila Arteaga, P. Martinez-Lopez-Corell, R. Molina-Pallete, I.A. Placinta, A. Barreiro-Gonzalez (Spain)

## Tuesday, 22 May 2018

- P5.032** Evaluation of ab-interno XenGel implants in the control of intraocular pressures  
H. Ali, T. Kersey (United Kingdom)
- P5.034** Effectiveness of trabecular microbypass stent implantation (iStent) on intraocular pressure in moderate and severe glaucoma: one year results  
M. Ittarat, A.C. Fisher, K. Singh, R.T. Chang (USA)
- P5.035** Second Ahmed glaucoma valve implantation  
T. Imshenetskaya, G. Vashkevich, Y. Milasheuski, V. Yarmak (Belarus)
- P5.036** A prospective, randomized, multi-center phase 2 study evaluating travoprost intraocular implants compared to timolol: three-month interim results  
K. Singh, J. Berdahl (USA)
- P5.037** The effect of photobiomodulation on a rat acute ocular hypertension retinal ischemia/reperfusion model  
J.W.H. Shum, J. Lai (Hong Kong)
- P5.038** Establishing a glaucoma drainage device service in a district general hospital  
L.Y. Goh, A. Hustler (United Kingdom)
- P5.039** The impact of long term glaucoma medications on structure and function of meibomian glands  
A. Rousseau, B. Scemla, S. Andrieu, C. Lambotin, B. Rousseau, E. Barreau, M. Labetoulle (France)
- P5.040** Ocular complications of cosmetic iridian implants in 8 eyes  
I. Ramirez, J.C. Izquierdo, F. Quezada, M.C. Ponte, B. Rubio, L.A. Cañola-Ramirez (Peru)
- P5.041** Transscleral cyclophotocoagulation with diode laser for refractory glaucoma. Our experience  
B. Rodriguez Aguado, L. Almudi Cortes, I. Luengo Arroyo, M. Asaad (Spain)
- P5.042** Short-term safety and efficacy of carteolol/latanoprost fixed-combination ophthalmic solution in actual clinical setting  
K. Tada, Y. Ikeda, M. Ueno, K. Mori, S. Kinoshita, C. Sotozono (Japan)
- P5.043** Implantation of two first-generation trabecular micro-bypass stents as a standalone procedure combined with topical prostaglandin in subjects with OAG on 2 preoperative medications: five year outcomes  
J.I. Belda, L. Rial (Spain)
- P5.044** Method of surgical treatment of patients with resistant forms of glaucoma  
G. Malinovsky, N. Sidenko, A. Dvalishvili (Belarus)
- P5.045** Use of tissue adhesive in complex glaucoma surgery  
C. Romero Royo, A. Fernandez Garcia, S. Perucho Martinez, E. Martin Giral, C. Fernandez Escamez, F. Poyales Galan, R. Pérez Izquierdo, B. Poyales Villamor (Spain)
- P5.046** Additional tube shunt with Baerveldt implant after failed Ahmed glaucoma valve surgery and revisions  
R. Inoue (Japan)
- P5.047** Lifespan of endocyclophotocoagulation probes  
M. Syrimi, S. Lim (United Kingdom)
- P5.048** Early refractive effect of cataract surgery in medically controlled glaucoma  
E. Sen, D. Ozkoyuncu, U. Elgin (Turkey)
- P5.049** "Baerveldt valve flap-less implant": the Florentine experience  
T. Caporossi, F. Franco, L. Finocchio, R. Tartaro, S. Rizzo (Italy)
- P5.050** The efficacy and safety of the Xen gel implant in POAG and PXG patients  
R. Kasina, M.A. Economou (Sweden)



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- P5.051** Intraoperative rock-hard eye syndrome in combined glaucoma surgery  
J. Bueno Palacin, A. Fernandez Garcia, F. Poyales Galan, N. Garzon Jimenez, R. Perez Izquierdo, B. Poyales Villamor (Spain)
- P5.052** Femtosecond-laser usage in glaucoma patients  
A. Fernandez Garcia, N. Garzon Jimenez, F. Poyales Galan, B. Poyales Villamor, R. Perez Izquierdo, C. Poyales Galan (Spain)
- P5.053** Ahmed glaucoma valve (AGV) tube insertion technique (graft Sparing). Subhan's scleral tunnel technique  
I.A. Subhan (Saudi Arabia)
- P5.054** The effect of nocturnal continuous positive airway pressure (CPAP) therapy on the 24-hours intraocular pressure rhythm in patients with sleep apnea syndrome using a contact lens sensor  
J. Ezpeleta Campaña, M.J. Muniesa Royo, I. Benítez, M. Sánchez de la Torre, F. Barbé (Spain)
- P5.055** Influence of incision arc amount of trabecular meshwork on the short-term outcome of modified gonioscopy-assisted transluminal trabeculotomy/suture-trabeculotomy ab interno  
K. Mori, Y. Yamamoto, Y. Ikeda, M. Ueno, K. Imai, C. Sotozono (Japan)
- P5.056** Histological change after biodegradable collagen matrix application on Ahmed glaucoma valve in rabbits  
S. Lee, N. Han, S. Rho, J.W. Park (Republic of Korea)
- P5.057** Real world clinical experience for the CyPass micro-stent at a University Affiliated Medical Center in the United Kingdom  
I.E. Gabbay, S. Ruben (United Kingdom)
- P5.058** The study of knowledge and ocular tension in glaucoma patients of Chumphon Khet Udomsakdi Hospital  
A. Bhornmata (Thailand)
- P5.059** Evaluation effects of antiglaucomatous drugs on conjunctival thickness using anterior segment optical coherence tomography  
T. Yasar, S. Tekin, E. Seven (Turkey)
- P5.060** Evaluation of transscleral cyclophotocoagulation in Northern Sweden glaucoma patients  
E. Rasmuson, G. Jöhannesson, C. Lindén (Sweden)
- P5.061** XEN glaucoma implant with mitomycin C 6-months follow-up: results and complications  
J. Guzmán, C. Pizzamiglio, A. Bracamonte, P. Ortega, C. Fernández, C. Lázaro, T. Pérez (Spain)
- P5.062** Modified 360-degree suture trabeculotomy using two sutures  
Y. Shinmei, A. Shinkai, M. Kusajima, R. Kijima, T. Ohguchi, S. Chin, S. Ishida (Japan)
- P5.063** Surgical treatment in inflammatory glaucoma: non-penetrating deep sclerectomy  
A. Ichaso Ortueta Olartecoechea, J.C. Herranz Heras, J.L. Torres Peña, B. Alonso Martin, A. de Pablo Cabrera, E. Gutiérrez Díaz (Spain)
- P5.064** New design of surgical treatment of glaucoma  
A. Zhuravleva, E. Suleiman, O. Kiseleva, A. Bessmertny, K. Lugovkina (Russia)
- P5.065** Value of short-protocol office hour phasing in the management of glaucomas  
H. Ho, C. Ford, P. Campbell, I. Rodrigues, K.S. Lim (United Kingdom)
- P5.066** A prospective, randomized, multi-center pivotal study of second-generation trabecular micro-bypass stents implanted in combination with cataract surgery: two year data  
R. Lewis (USA)
- P5.067** Study of the hypertensive phase after glaucoma surgery with implantation of the Ahmed glaucoma valve  
A.S. Lopes, F. Trancoso Vaz, S. Henriques, M. Lisboa, C. Vendrell (Portugal)



## Tuesday, 22 May 2018

- P5.069** An *in vivo* confocal, prospective, masked, 36 months study on glaucoma patients medically treated with preservative-free or preserved monotherapy  
A.V. Mirabile, F. Bettio, E. Picasso, C. Lumini, G.M. Pasinetti, G. Milano, L. Scudeller, G.C. Rossi (Italy)
- P5.070** Alternatives in glaucoma surgery with damaged ocular surface  
I. Gesé Bordils, L. Guerrero Altares, E. Guzmán Almagro, R. Castro Florez, N. Alejandro Alba (Spain)
- P5.071** Longitudinal changes in choroidal thickness and IOP reduction after glaucoma surgery  
S. Cha, S.-H. Lim, I. Kim, A. Jeong (Republic of Korea)
- P5.072** SubCyclo laser: clinical and anatomical results in refractory glaucoma  
N. Benhatchi, L. Sauvan, D. Bensmail, M. Graber, O. Abitbol, E. Bluwol, M.N. Jeanteur, G. Kretz, M. Voigt, Y. Lachkar (France)
- P5.074** The “real world” management of the neuro-implementation in glaucoma treatment in Italian territorial clinics  
E. Mengoni, D. Mazzacane, P.F. Marino (Italy)
- P5.075** Surgical effects of 360-degree suture trabeculotomy ab externo for adult glaucoma patients  
T. Ono, D. Shiba, K. Yuki, S. Adachi, R. Ui, S. Hosoda, N. Ozeki, K. Tsubota (Japan)
- P5.076** Comparison of trabeculectomy and Ahmed valve implantation on axial length values  
D. Belov, V. Nikolaenko (Russia)
- P5.078** Effects of Y-27632 on scarring formation after glaucoma filtration surgery  
H. Okumichi<sup>1</sup>, J.-A. Ko<sup>1</sup>, W. Iwata<sup>1</sup>, D.G. Ibrahim<sup>2</sup>, Y. Kiuchi<sup>1</sup> (<sup>1</sup>Japan, <sup>2</sup>Indonesia)
- P5.079** XEN fracture after needling procedure  
S. Olivari, L. Negri, C.A. Cutolo, M. Iester, C.E. Traverso (Italy)
- P5.080** The role of the assessment of intraocular inflammation after ultrasound cyclo plasty: possible implication for a timely retreatment  
S. Sebastiani, G. Giannaccare, M. Pellegrini, E. Campos (Italy)
- P5.081** Ultrasound cyclo plasty for glaucoma: relationship between treatment efficacy and anatomical parameters  
M. Pellegrini, G. Giannaccare, S. Sebastiani, L. Urbini, L. Carmassi, E. Bulone, F. Bergamini, E. Campos (Italy)
- P5.082** Single surgeon evaluation of second-generation trabecular micro-bypass stents in patients with mild to severe glaucoma  
J. Lapointe, P. Harasymowycz (Canada)
- P5.083** Ocular surface in patients with chronic glaucoma treatment and different artificial tear substitutes  
M. Iester<sup>1</sup>, P. Fogagnolo<sup>1</sup>, F. Oddone<sup>1</sup>, M. Figus<sup>1</sup>, P. Frazzotti<sup>1</sup>, A. Ferreras<sup>2</sup> (Italy, <sup>2</sup>Spain)
- P5.084** Choroidal detachment after XEN gel stent filtering surgery  
L. Negri (Italy)
- P5.085** Evaluation of the effectiveness of trabectome surgery and combined trabectome-phaco surgery  
Y. Un<sup>1</sup>, C. Buyukavsar<sup>1</sup>, Y. Yildirim<sup>2</sup>, M. Sonmez<sup>1</sup> (<sup>1</sup>Turkey, <sup>2</sup>Azerbaijan)
- P5.086** Enrichment of a biodegradable glaucoma drainage with cyclosporine a in prevention of postoperative scarring  
E. Karlova, V. Germanova, A. Korigodskiy, A. Zolotarev (Russia)
- P5.087** Effect of blue light-filtered intraocular lens on contrast sensitivity of glaucoma patients  
N. Kitnarong, L. Udomwech, N. Chongthurakit (Thailand)
- P5.089** Management of thin-walled blebs. Our experience  
L. Almudi Cortes, B. Rodriguez Aguado, M. Asaad (Spain)



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- P5.090** It is never too late for surgery in end stage glaucoma: a prospective two-center case series  
G. Marchini, D. Berzagli, M. Giacomelli, F. Chemello, M. Marcigaglia, N. Ungaro, L. Varano, S.A. Gandolfi (Italy)
- P5.091** May MIGS and filtering surgery influence circadian aqueous humor fluctuation range?  
C. Posarelli<sup>1</sup>, P. Ortenzio<sup>1</sup>, A. Ferreras<sup>2</sup>, P. Lojudice<sup>1</sup>, A. Passani<sup>1</sup>, M.P. Bartolomei<sup>1</sup>, M. Nardi<sup>1</sup>, M. Figus<sup>1</sup> (<sup>1</sup>Italy, <sup>2</sup>Spain)
- P5.092** Safety and efficacy of CO<sub>2</sub> LASER-assisted sclerectomy versus trabeculectomy - One year results  
J. Cardoso, M. Marques, J. Providência, M. Oliveira, P. Faria, J.F. Silva, J. Moura Pereira, J. Murta (Portugal)
- P5.093** Late trabeculectomy-bleb needling with 5-FU: safety and efficacy  
C. Gizzi, J. Mohamed-Noriega, W. Nolan, D.F. Garway-Heath (United Kingdom)
- P5.094** Clinical characteristics of Posner-Schlossman syndrome in Korea  
S.H. Lee (Republic of Korea)
- P5.095** Amniotic membrane graft in the management of late bleb leakage after trabeculectomy with mitomycin C  
M. Moussalli, A. de Gainza (Argentina)
- P5.096** Recent trends for glaucoma operations in German hospitals  
C. Wolfram (Germany)
- P5.097** Management of an intraoperative suprachoroidal haemorrhage during a tube insertion in an aphakic patient  
D. Sinapis (Greece)
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