# TIMETABLE

## Thursday, February 6

<table>
<thead>
<tr>
<th>Time</th>
<th>Assembly Hall</th>
<th>Convocation Hall</th>
<th>Harvey Goodwin Suite</th>
<th>Robert Runcie Room</th>
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<tbody>
<tr>
<td>08.30</td>
<td>All you need to know about glaucoma</td>
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<td>12.00</td>
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<td><strong>12.00</strong></td>
<td>Opening and welcome</td>
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<td><strong>13.00</strong></td>
<td>Educational Partner Lunch Symposium</td>
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<tr>
<td>14.30</td>
<td>Course 1 Trabeculectomy</td>
<td>Course 2</td>
<td>Course 3</td>
<td>Wetlab 1</td>
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<td>15.30</td>
<td></td>
<td>Decision making when things fail</td>
<td>MIGS/Others outside the box, evidence-free</td>
<td>PRESERFLO MicroShunt</td>
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<td>15.30</td>
<td>Afternoon tea</td>
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<td><strong>16.00</strong></td>
<td>Course 4 New ciliary body surgery</td>
<td>Course 5 Tube surgery</td>
<td>Course 6 Schlemm’s canal stenting</td>
<td>Wetlab 2</td>
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<td>PRESERFLO MicroShunt</td>
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<td><strong>17.00</strong></td>
<td>Welcome Reception</td>
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## TIMETABLE

**Friday, February 7**

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<th>Harvey Goodwin Suite</th>
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<td>09.00</td>
<td>Session 1 Debate</td>
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<td>Course 7</td>
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<td>Old vs new surgery</td>
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<td>Session 2 What’s new</td>
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<td>Thom J. Zimmermann</td>
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<td>What have we learned</td>
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<td>Course 14 Free papers - Rapid fire</td>
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<td>Wetlab 10 MicroPulse Transscleral Laser Therapy</td>
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<td>Course 15 New filters (Xen-microshunt)</td>
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<td>Course 17 Serious complications</td>
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<td>Wetlab 11 MicroPulse Transscleral Laser Therapy</td>
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<td>Course 18 Surgical management of angle closure</td>
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<td>17.00</td>
<td>Closing Ceremony and Prizes</td>
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</table>
ALL YOU NEED TO KNOW ABOUT GLAUCOMA

Moderators: Leon Au (United Kingdom), Shamira Perera (Singapore)

08.30  Part 1

IOP assessment
Leon Au (United Kingdom)

Fundamentals of gonioscopy
Zeynep Aktas (Turkey)

Anterior segment imaging for the glaucoma surgeon
Shamira Perera (Singapore)

Laser for the glaucomatologist
Sylvia Groth (USA)

Perimetry essentials
Mohamed Elmalah (Egypt)

09.45  Tea break

10.15  Part 2

Trabeculectomy - step by step
Lineu Shiroma (Brazil)

All you need to know about tubes
Arvind Neelakantan (USA)

Major glaucoma clinical trials
Ziad Khoueir (Lebanon)

Optical coherence tomography in glaucoma
Colin Clement (Australia)

Decision making and clinical scenarios in Glaucoma
Yasmine El Sayed (Egypt)

How to get ahead in ophthalmology
Stephen Cook (South Africa)
OPENING AND WELCOME

Welcome to the 10th ICGS
Tarek Shaarawy (Switzerland) - President
Tanuj Dada (India) - Secretary General
Sheng Lim (United Kingdom) - Chair Scientific Committee

Welcome to London City
Roger Hitchings (United Kingdom)

12.30 Honorary President Keynote Lecture
Sir Peng Khaw (United Kingdom)

EDUCATIONAL PARTNER LUNCH SYMPOSIUM
(see page 41)

COURSE I
TRABECULECTOMY
Moderators: Colin Clement (Australia), Deborah Kamal (United Kingdom)

Arvind Neelakantan (USA)
Peter Shah (United Kingdom)
Julian Garcia-Feijoo (Spain)
Walid Tantawy (United Kingdom)
Convocation Hall

14.30       COURSE 2
15.30       DECISION MAKING WHEN THINGS FAIL
Moderators: Lineu Shiroma (Brazil), Jing Wang (Canada)

Akira Matsuda (Japan)

Mark Sherwood (USA)

Paul Sidoti (USA)

Nitin Anand (United Kingdom)

Harvey Goodwin Suite

14.30       COURSE 3
15.30       MIGS/OTHERS OUTSIDE THE BOX, EVIDENCE-FREE
Moderators: Sidi Mohammed Ezzouhairi (Morocco),
            George Spaeth (USA)

Microshunt in uveitic glaucoma
Nathan Kerr (Australia)

XEN/Baerveldt
Franz Grehn (Germany)

KDB as primary therapy
Tarek Shaarawy (Switzerland)

AGV in elderly POAG
Andrew Crichton (Canada)

Robert Runcie Room

14.30       WETLAB 1
15.30       PRESERFLO MicroShunt (Educational Partner - Santen)

15.30       Afternoon tea
16.00
**COURSE 4**  
**NEW CILIARY BODY SURGERY**  
Moderator: Philip A. Bloom (United Kingdom)

*Background*
Sheng Lim (United Kingdom)

*ECP*
Philip A. Bloom (United Kingdom)

*Micropulse*
Ziad Khoueir (Lebanon)

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**COURSE 5**  
**TUBE SURGERY**  
Moderators: Abdallah Hassouna (Egypt), Mark Sherwood (USA)

Paul Sidoti (USA)

Etsuo Chihara (Japan)

Xiulan Zhang (China)

Susana Duch (Spain)
London
February 6-8, 2020

Harvey Goodwin Suite

16.00 COURSE 6
17.00 SCHLEMM’S CANAL STENTING
Moderators: Esmail Eslah (Kuwait), Norbert Pfeiffer (Germany)

Overview
Randy Craven (USA)

iStent
Antonio Maria Fea (Italy)

iStent
Gokulan Ratnarajan (United Kingdom)

Hydrus
Imran Masood (United Kingdom)

Robert Runcie Room

16.00 WETLAB 2
17.00 PRESERFLO MicroShunt (Educational Partner - Santen)
09.00 SESSION 1
10.00 DEBATE
Moderators: Laura Crawley (United Kingdom), Mario Economou (Sweden)

Debate: Congenital glaucoma
Trab/trabeculotomy - John Brookes (United Kingdom)
Others - Joseph Panarelli (USA)

09.00 COURSE 7
10.00 DEBATE: OLD VS NEW SURGERY
Moderator: Henny Beckers (The Netherlands)

New stuff
Leon Au (United Kingdom)

Tube & trab
Louis Cantor (USA)

09.00 WETLAB 3
10.00 Xen (Educational Partner - Allergan)
10.00  SESSION 2
11.00  WHAT’S NEW
Moderator: Andrew Tatham (United Kingdom)

PGI
Victor Koh (Singapore)

iStar miniject
Philippe Denis (France)

PreserFlo - latest results from study
Tarek Shaarawy (Switzerland)

iStent
Gokulan Ratnarajan (United Kingdom)

Hydrus
Norbert Pfeiffer (Germany)

EyeWatch
Sheng Lim (United Kingdom)

10.00  WETLAB 4
11.00  Xen (Educational Partner - Allergan)

11.00  Morning tea
11.30

11.30  Thom J. Zimmerman Lecture
12.00  Intro: Mark Sherwood (USA)

Jeffrey Freedman (USA)
EXECUTIVE REVISION.
WHAT HAVE WE LEARNED FROM THE BIG TRIALS?
Moderators: Tanuj Dada (India), Anthony King (United Kingdom)

TVT
Leon Herndon (USA)

ABC/AVB
Yvonne Buys (Canada)

PTVT
Saurabh Goyal (United Kingdom)

Independent perspective on all 3 studies
Randy Craven (USA)

WETLAB 5
Masterclass Trabeculectomy

EDUCATIONAL PARTNER LUNCH SYMPOSIUM
(see page 42)

COURSE 8
CONGENITAL GLAUCOMA SURGERY
Moderators: Rolando Fernández (Peru), Sayeh Pourjavan (Belgium)

Zeynep Aktas (Turkey)
Albert Khouri (USA)
John Brookes (United Kingdom)
Tuba Atalay (Turkey)
**Convocation Hall**

14.30  **COURSE 9**  
15.30  **CANAL SURGERY CUTTING**  
Moderators: Julian Garcia-Feijoo (Spain), Abdulla Naqi (UAE)

Gatt  
Zeynep Aktas (Turkey)

KDB  
Saurabh Goyal (United Kingdom)

ABic  
Patrick Gooi (Canada)

Trabectome  
Arthur J. Sit (USA)

**Harvey Goodwin Suite**

14.30  **COURSE 10**  
15.30  **INNOVATIVE SURGERY FOR DEVELOPING WORLD**  
Moderator: William Sponsel (USA)

Application of new technologies to detect and treat glaucoma in the developing world  
William Sponsel (USA)

Stephen Cook (South Africa)

Seng Chee Loon (Singapore)

**Robert Runcie Room**

14.30  **WETLAB 6**  
15.30  ClearPath valveless device & Ahmed glaucoma valve (Educational Partner - New World Medical)

15.30  Afternoon tea
Assembly Hall

**COURSE 11**

**THE MONEY IN GLAUCOMA SURGERY**

Moderator: Yvonne Buys (Canada)

- Practicalities of starting a new venture
  - Cherry Khoo (Singapore)

- The last frontier in the business of surgery glaucoma
  - Greg Kunst (USA)
  - Omar Sadrudin (USA)
  - iKey: catching the silent thief
  - Kate Coleman (Ireland)

- Developing eyeWatch: current and future business perspectives
  - Nikolas Stergiopulos (Switzerland)

Convocation Hall

**COURSE 12**

**NON-PENETRATING SURGERY**

Moderator: Paul Harasymovicz (Canada)

- Tarek Shaarawy (Switzerland)

- Saleh Obeidan (Saudi Arabia)

- Karl Mercieca (United Kingdom)
16.00  COURSE 13
17.00  HOW TO READ A PAPER

Throw away p values: use thresholds
George Spaeth (USA)

Different content - different evaluation
Anthony King (United Kingdom)
Yoshiaki Kiuchi (Japan)

16.00  WETLAB 7
17.00  ClearPath valveless device & Ahmed glaucoma valve (Educational Partner - New World Medical)

17.00  Clive Migdal Lecture
17.30  Intro: Seng Chee Loon (Singapore)

“Making a new tube implant: does the design deliver?”
Paul Chew (Singapore)

19.00  Congress Social Dinner
Assembly Hall

09.00 SESSION 3
10.00 DEBATES
Moderator: Frances Meier-Gibbons (Switzerland)
Debate: Hypotony post surgery: to intervene or not
Yes - Jim Kirwan (United Kingdom)
No - Stephen Vernon (United Kingdom)
Debate: SLT primary treatment
Yes - Gus Gazzard (United Kingdom)
No - Catherine Birt (Canada)

Robert Runcie Room

09.00 WETLAB 8
10.00 iStent (Educational Partner: Glaukos)

Assembly Hall

10.00 SESSION 4
11.00 DEBATES
Moderators: Franz Grehn (Germany), Aung Tin (Singapore)
Debate: Glaucoma surgery - Early vs Late
Early - Anthony King (United Kingdom)
Late - Syril Dorairay (USA)
Debate: Primary tubes - For and Against
For - Leon Herndon (USA)
Against - Michael Coote (Australia)
**Robert Runcie Room**

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<td>11.30</td>
<td>Doug Johnson Lecture</td>
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<td>Intro: Franz Grehn (Germany)</td>
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<td>Norbert Pfeiffer (Germany)</td>
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**Assembly Hall**

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<td>London War Room - Combatting Complications</td>
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<td>Moderator: Stephen Vernon (United Kingdom)</td>
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<td>Shamira Perera (Singapore)</td>
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<td>Syril Dorairaj (USA)</td>
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<td>Sylvia Groth (USA)</td>
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<td>Vital Costa (Brazil)</td>
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**Assembly Hall**

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14.30 COURSE 14
FREE PAPERS - RAPID FIRE
Moderators: Michael Coote (Australia), Tina Wong (Singapore)

Mid-term clinical results of ab interno trabeculotomy using trabecular hooks with phacoemulsification in Japanese glaucoma patients
Takashi Omoto, Takashi Fujishiro, Kimiko Asano-Shimizu, Koichiro Sugimoto, Rei Sakata, Hiroshi Murata, Ryo Asaoka, Megumi Honjo, Makoto Aihara (Japan)

Two-year outcomes of ab interno trabeculectomy with the Trabectome for Chinese primary open angle glaucoma: a retrospective multi center study
Chun Zhang¹, Wanwei Dai¹, Ningli Wang¹, China Trabectome Study Group¹, Nils A. Loewen² (¹China, ²USA)

Prevalence of endophthalmitis after aqueous shunt implants and related procedures in an eye service
Fernanda N. Susanna¹, Renata Puertas², Suzanne Turner², Nadine Grant-McKenzie², Catherine Wagland², Maria Papadopoulos²
(¹Brazil, ²United Kingdom)

Combined 25-gauge (25G) endoscope-assisted pars plana Ahmed glaucoma valve placement and vitrectomy for advanced glaucoma with anterior segment abnormalities
Taisuke Matsuda, Sho Yokoyama, Takashi Kojima, Mitsunori Watanabe, Tatsushi Kaga, Kazuo Ichikawa (Japan)

Impact of preoperative topical difluprednate on trabeculectomy outcomes: a randomised controlled trial
Jyoti Shakrawal, Shahnaz Anjum, Rima Dada, Ramanjit Sihota, Tanuj Dada (India)

Intracameral bevacizumab versus mitomycin C as adjuncts to Trabeculectomy; 3-year results
Gerasimos Kopsinis¹, Dimitrios Tsoukanas¹, Dimitra Kopsini², Theodoros Filippopoulos¹ (¹Greece, ²United Kingdom)
14.30 COURSE 15
15.30 NEW FILTERS (XEN/MICROSHUNT) AND THEIR COMPLICATIONS
Moderator: Jaewan Choi (South Korea)

Xen
Dan Lindfield (United Kingdom)

MicroShunt
Evelien Vandewalle (Belgium)

Xen ab externo
Joseph Panarelli (USA)

Slit-lamp Xen implantation
Sebastien Gagné (Canada)
**Harvey Goodwin Suite**

**14.30**  
**COURSE 16**  
**COMBINED PROCEDURES**
Moderators: José Guajardo (Chile), Ali Hafez (Canada)

Paul Harasymovicz (Canada)
Ali Hafez (Canada)
Yasmine El Sayed (Egypt)
Susan Wakil (Canada)

**15.30**

**Robert Runcie Room**

**14.30**  
**WETLAB 10**

MicroPulse Transscleral Laser Therapy  
(Educational Partner - Iridex)

**15.30**  
Afternoon tea

**Assembly Hall**

**16.00**  
**SESSION 5**  
**THE FUTURE IN ALL ITS GLORY**
Moderator: Tarek Shaarawy (Switzerland)

Future of wound healing in glaucoma surgery  
**Tina Wong** (Singapore)

Big data in glaucoma surgery  
**Nathan Kerr** (Australia)

Future glaucoma trials that will change practice  
**Stefano Gandolfi** (Italy)

Future of devices and techniques in glaucoma surgery  
**Keith Barton** (United Kingdom)

Artificial Intelligence in glaucoma management
William Sponsel (USA)

Convocation Hall

16.00  COURSE 17
17.00  SERIOUS COMPLICATIONS
Moderators: Mark Sherwood (United Kingdom),
Ahmed el Karmouty (United Kingdom)

Suprachoroidal haemorrhage - Glaucoma specialist perspective
Keith Barton (United Kingdom)

Suprachoroidal haemorrhage - VR perspective
Gabriele Thumann (Switzerland)

Corneal decompensation - Corneal perspective
Zsolt Varga (Switzerland)

Tube erosion
Sheng Lim (United Kingdom)

Harvey Goodwin Suite

16.00  COURSE 18
17.00  SURGICAL MANAGEMENT OF ANGLE CLOSURE
Moderator: Paul Chew (Singapore)

Aung Tin (Singapore)

Gus Gazzard (United Kingdom)

Stefano Gandolfi (Italy)

Robert Runcie Room

16.00  WETLAB II
17.00  MicroPulse Transscleral Laser Therapy
(Educational Partner - Iridex)

Assembly Hall

17.00  Closing Ceremony & Prizes
17.30
# WETLAB SUMMARY - ROBERT RUNCIE ROOM

**Thursday, February 6 2020**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tr>
<td>14.30</td>
<td>WETLAB 1</td>
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<tr>
<td>15.30</td>
<td>PRESERFLO MicroShunt (Educational Partner - Santen)</td>
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<td>16.00</td>
<td>WETLAB 2</td>
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<td>17.00</td>
<td>PRESERFLO MicroShunt (Educational Partner - Santen)</td>
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**Friday, February 7 2020**

<table>
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<tr>
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<tr>
<td>09.00</td>
<td>WETLAB 3</td>
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<td>WETLAB 4</td>
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<td>11.00</td>
<td>Xen (Educational Partner - Allergan)</td>
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<td>12.00</td>
<td>WETLAB 5</td>
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<tr>
<td>13.00</td>
<td>Masterclass Trabeculectomy</td>
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<td>14.30</td>
<td>WETLAB 6</td>
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<td>15.30</td>
<td>ClearPath valveless device &amp; Ahmed glaucoma valve (Educational Partner - New World Medical)</td>
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<td>WETLAB 7</td>
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<tr>
<td>17.00</td>
<td>ClearPath valveless device &amp; Ahmed glaucoma valve (Educational Partner - New World Medical)</td>
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**Saturday, February 8 2020**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>09.00</td>
<td>WETLAB 8</td>
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<tr>
<td>10.00</td>
<td>iStent (Educational Partner: Glaukos)</td>
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<td>10.00</td>
<td>WETLAB 9</td>
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<tr>
<td>11.00</td>
<td>iStent (Educational Partner: Glaukos)</td>
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<td>14.30</td>
<td>WETLAB 10</td>
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<tr>
<td>15.30</td>
<td>MicroPulse Transscleral Laser Therapy (Educational Partner - Iridex)</td>
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<tr>
<td>16.00</td>
<td>WETLAB 11</td>
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<tr>
<td>17.00</td>
<td>MicroPulse Transscleral Laser Therapy (Educational Partner - Iridex)</td>
</tr>
</tbody>
</table>
VIDEO LOOP

V01 Real world consequence of angle closure in cataract surgery: overlook. At your own peril! 
Vanita Pathak Ray, Aashish Bansal, Abdul Rasheed, Varun Malhotra (India)

V02 Novel technique for combined treatment and evaluation of open-angle glaucoma: ab interno itrack canaloplasty combined with in vivo trypan blue venography 
Gavin Docherty, Matt Schlenker, Bryce Ford, Andrew Crichton, Ike Ahmed, Patrick Gooi (Canada)

V03 Hemi-gonioscopy-assisted transluminal trabeculotomy combined with direct ab-interno viscocanaloplasty: description and preliminary results 
Gavin Docherty, Bryce Ford, Andrew Crichton, Patrick Gooi (Canada)

V04 Use of the second fento laser in eye surgery with glaucoma 
Susana Perucho Martinez, Aitor Fernandez Garcia, Carlos Fernandez Escamez (Spain)

V05 Traumatic glaucoma with iridodialysis 
Esperanza Gutierrez Diaz, Maria Dolores Lago Llinas, Jose Luis Torres Peña, Beatriz De Lucas Viejo, Marta Montero Rodriguez (Spain)

V06 Dangerous eye: let’s take advantage of what we have 
Maria Dolores Lago Llinas, Esperanza Gutierrez Diaz (Spain)

V07 Different surgical techniques for tube revision 
Cynthia Yu-Wai-Man, Sheng Lim (United Kingdom)

V08 Management to trabeculectomy and hypotony 
Nurettin Akyol, Adem Türk (Turkey)

V09 Bleb rescue operations 
Jyoti Shakrawal, Talvir Sidhu, Ramanjit Sihota, Tanuj Dada (India)
V10  Acute fluid misdirection syndrome and different treatment methods
    Susana Perucho Martinez, Aitor Fernandez Garcia, Carlos Fernandez Escamez, Elena Martín Giral, Nicolas Toledano Fernandez (Spain)

V11  Managing tube migration following glaucoma implant surgery
    Surinder Pandav, Faisal Tattaruthodi, Madhuri Akela, Manpreet Kaur (India)

V12  Cypass trimming
    Jose Luis Torres Peña, Marta Montero Rodriguez, Maria Dolores Lago Llinas, Beatriz De Lucas Viejo, Esperanza Gutierrez Diaz (Spain)

V13  Goniotome; a new glaucoma surgery for the European market
    Vipul Ramjiani, Daniel Gosling, Graham Auger (United Kingdom)

V14  Semi-open subtenon ab interno XEN stent technique
    Yu Xiang George Kong (Australia)

V15  Primary needling in XEN45 gel stent in glaucoma surgery
    Susana Perucho Martinez, Elena Martín Giral, Aitor Fernandez García, Nicolas Toledano Fernandez, Carlos Fernandez Escamez (Spain)

V16  A novel application for the Preserflo microshunt in restoring drainage during surgical revision of a leaking avascular conjunctival bleb
    Paolo Meier, Tejal Magan, Avi Kulkarni (United Kingdom)

V17  Rescue microshunt rescued
    Marta Montero Rodriguez, Jose Luis Torres Peña, Maria Dolores Lago Llinas, Beatriz De Lucas Viejo, Esperanza Gutierrez Diaz (Spain)

V18  Ahmed drainage implantation in penetrating keratoplasty and anterior chamber reconstruction
    Tatiana Iureva, Nadezhda Senchenko (Russia)
V19 Tips and techniques for micropulse trans-scleral cyclophotocoagulation  
*Brinda Shah, Safaa Mahmoud, Apurva Goray, Paritosh Shah*  
(United Kingdom)

V20 Non penetrating deep sclerectomy: visco-dissection of the trabeculo-Descemet’s membrane and surgical maneuver to solve a post surgical incarceration of iris in the trabeculo-Descemet’s membrane  
*Maria Jesus Muniesa Royo* (Spain)

V21 Surgical treatment of glaucoma and cataract in a patient with iris coloboma  
*Maria Dolores Lago Llinas, Esperanza Gutierrez Diaz* (Spain)

V22 A surgery video of CO2 laser-assisted sclerectomy surgery and perioperative follow-up  
*Yangfan Yang* (China)

V23 Drainage of pre-descemetic hematoma after non-penetrating deep sclerectomy  
*Maria Dolores Lago Llinas, Beatriz de Lucas Viejo* (Spain)

V24 Non-penetrating glaucoma surgery (NPGC) with spurectomy and supraciliary implant  
*Alex Samir Fernández Santodomingo, Miriam Rahhal Ortuño, Emma Marín Payá, Jorge Vila Arteaga* (Spain)

V25 Deep sclerectomy combined with ologen implant and mitomycin-C application for treatment of primary open angle glaucoma  
*Mohamed Elmalah* (Egypt)

V26 Non-penetrating glaucoma surgery. Deep Sclerectomy with space maintainer implant  
*Ali Albeshri* (Saudi Arabia)

V27 Trabecular peeling technique for performing ab interno trabeculectomy - 1 year results  
*Ankush Mahajan, V.K. Mahajan* (India)
V28  The role of porous collagen in trabeculectomy without suturing scleral flap
Ahmed Elbably (United Kingdom)

V29  Suture less scleral tunnel trabeculectomy in management of patients with primary open angle glaucoma
Mohammad Arish (Iran)

V30  Combined keratoplasty, cataract with IOL and Ahmed valve implantation for congenital aniridia
Hani Nasr (Egypt)

V31  Tube in tube technique
Lina Osman, Peter Shah, Joseph Abbott (United Kingdom)

V32  Drainage device implantation in severe scleromalacia
Elena Milla, Marta Pazos, Mª Jesus Muniesa (Spain)

V33  Exact positioning of tube in posterior chamber during glaucoma drainage device (GDD) surgery
Jose Luis Torres Peña, Beatriz De Lucas Viejo, Maria Dolores Lago Llinas, Marta Montero Rodriguez, Esperanza Gutierrez Diaz (Spain)

V34  Baerveldt implant combined with vitrectomy in nanophthalmos
Esperanza Gutierrez Diaz, Marta Montero Rodriguez, Beatriz De Lucas Viejo, Jose Luis Torres Peña, Maria Dolores Lago Llinas (Spain)

V35  Glaucoma drainage implants: Learning from experience and tips for the beginners
Rashmi Krishnamurthy, Sirisha Senthil (India)

V36  Anterior vitrectomy plus phacoemulsification in treatment of malignant glaucoma
Fei Li, Xiulan Zhang (China)
**E-POSTERS**

**ANGLE CLOSURE GLAUCOMA**

P001  Acute angle closure in late pregnancy  
*Sana Hamid* (United Kingdom)

P002  24-month outcomes of excisional goniotomy with the Kahook Dual Blade in angle-closure glaucoma  
*Syril Dorairaj¹, Mai Dang Tam²* (¹USA, ²Viet Nam)

P003  Phacoemulsification with or without surgical iridectomy as a primary modality for management of chronic angle closure glaucoma with cataract: a ten years follow up study  
*Hazem Helmy* (Egypt)

**CATARACT AND GLAUCOMA SURGERY**

P004  Long-term evaluation of iStent surgery performed on Japanese patients  
*Kazuyoshi Kitamura, Kenji Kashiwagi* (Japan)

P005  Implementation of a pilot ophthalmic-focussed undergraduate microsurgical skills training programme  
*Daniel Wheeler, Filippos Papadopoulos, Mohsan Malik, Darshak Patel, Meena Arunakirinathan, Robert Petrarca* (United Kingdom)

P006  Association between morphological changes in filtering blebs and intraocular pressure increase after phacoemulsification  
*Akiko Narita, Tomoe Miyake, Kae Sugihara, Naruka Mitsui, Seido Okuda, Tomoko Ishikawa, Jiro Seguchi* (Japan)
P008  Outcomes of phacoemulsification combined with two iStent inject trabecular microbypass stents with and without endocyclophotocoagulation
Anca Pantalon, Andre Diogo Barata, Minas Georgopoulos, Gokulan Ratnarajan (United Kingdom)

P009  Three-year outcomes of combined iStent and cataract surgery
Gayane Oganova (Armenia)

P010  Goniosynechialysis with internal limiting membrane forceps - A novel method
Thomas Sherman, Andrew Swampillai, Salman Waqar (United Kingdom)

P011  Ahmed-valve glaucoma drainage device model FP7 combined with gonioscopy assisted transluminal trabeculotomy: a novel technique for advanced glaucoma
Gavin Docherty, Andrew Crichton (Canada)

P012  Outcomes of phacotrabeculectomy vs trabeculectomy in a single surgeon, single unit setting
Zaria Christine Ali, Vikas Shankar, Dawnn Khoo (United Kingdom)

P013  Laser and surgical combined technology in glaucoma and cataract treatment
Tatiana Sokolovskaya, Boris Malyugin, Valeriya Yashina (Russia)

P014  Benchmarking posterior capsule rupture rate in glaucoma patients before and after patient-surgeon risk match
Fernanda N. Susanna¹, Renata Puertas² (¹Brazil, ²United Kingdom)
CONGENITAL / PEDIATRIC GLAUCOMA

P016 A comparative study of three surgical techniques in management of primary congenital glaucoma
Kübra Gül Ölke, Elif Erdem, Inan Harbiyeli, Meltem Yagmur, Reha Ersöz (Turkey)

P017 Wavefront aberrometry and higher order aberrations in primary congenital glaucoma
Arjun Desai, Subodh Lakra, Viney Gupta, Shikha Gupta (India)

EPIDEMIOLOGY

P018 Locating the pathogenic gene for a pedigree with primary angle-closure glaucoma
Jin Yang, Tao Liu (China)

GLAUCOMA MEDICATIONS

P019 Risk stratification strategy of treating ocular hypertension (OHT) that is based on advanced ocular imaging technique
Poemen Pui-Man Chan, Gilda Lai, Vivian Chiu, Anita Chong, Christopher K.S. Leung (Hong Kong)

GLAUCOMA SURGICAL COMPLICATIONS

P020 Treatment of endophthalmitis after Baerveldt glaucoma implant surgery using immediate tube withdrawal and temporary subconjunctival tube placement
Mitsui Naruka, Akiko Narita, Kae Sugihara, Seido Okuda, Tomoko Ishikawa, Miki Nouso, Jiro Seguchi, Etsuo Chihara (Japan)

P021 Bleb compression sutures in management of overfiltration after antiglaucoma surgery
Ewa Kosior-Jarecka, Dominika Wróbel-Dudzińska, Tomasz Zarnowski (Poland)
P022 Recurrent conjunctival erosion after Ahmed valve: solutions  
Sara Mora Sáez, Mayerling Mercedes Suriano, Irene Gregori Gisbert, Mireia Mascarell Vidal, Enara Etxabe Agirre (Spain)

INTERNATIONAL OUTREACH

P023 Incidence of glaucoma surgeries related to Anti-VEGF injections  
Natalia Maes¹, John Liu², Gavin Docherty², Steven Schendel²  
(¹United Kingdom, ²Canada)

LASERS

P024 Micropulse transcleral cyclophotocoagulation in a 26-year old female with bilateral advanced glaucoma secondary to Sturge-Weber Syndrome  
Noriell Jonathan Mamaclay, Joel Aduan, Joseph Manuel Cruz (Philippines)

P025 Short-term outcomes of micro-pulse transscleral cyclophotocoagulation in Japanese refractory glaucoma  
Risako Yamamoto, Takashiro Fujishiro, Koichiro Sugimoto, Shotaro Asano, Kimiko Asano, Rei Sakata, Hiroshi Murata, Ryo Asaoka, Megumi Honjo, Makoto Aihara (Japan)

P026 Long-term results of success rate and factor analysis of success and failure on patterned laser trabeculoplasty in refractory glaucoma patients  
Min Jin Kim, Seung Joo Ha (South Korea)

P027 Clinical outcomes after micropulse transscleral cyclophotocoagulation in uncontrolled glaucoma patients: 2-years restrospective study  
Lasmida Ruth Simatupang, Astrianda Suryono (Indonesia)

P028 Efficacy of selective laser trabeculoplasty in primary angle closure glaucoma (PACG) with pseudophakia  
Jyoti Shakrawal, Arpit Sharma, Dewang Angmo, Ramanjit Sihota (India)
P029 Outcomes of micropulse diode laser cyclophotocoagulation in seeing eyes with moderate to severe glaucoma - An Indian experience
Rajalakshmi Murali Ariga, Pratheeba Nivean, Salu S, Murali Ariga, Sujatha Mohan, Niranjana Anand (India)

P030 Outcomes of selective laser trabeculoplasty in eyes with prior corneal graft
Christopher Jong, Helen Chan (Australia)

P031 Transscleral cyclophotocoagulation in refractory glaucoma in patients with good vision
Natalia Palarie, Tatiana Pasenco, Natalia Palii (Moldova)

P032 Smaller anterior chamber volume is associated with higher risk of intraocular pressure elevation after laser iridotomy: a 1-year follow up study
Fei Li, Xiulan Zhang (China)

P033 Micropulse transscleral cyclophotocoagulation
Rita Basto, Joana Roque, Susana Henriques, Fernando Trancoso Vaz (Portugal)

NEW GLAUCOMA DRAINAGE DEVICES

P034 Angiographic biomarkers of functional filtering blebs after XEN gel implantation for glaucoma
Lorenza Brescia, Luca Agnifili, Leonardo Mastropasqua (Italy)

P035 Goniotome first year outcomes
Daniel Gosling, Vipul Ramjiani, Graham Auger (United Kingdom)

P036 Early outcomes of semi-open subtenon ab interno XEN stent insertion compared to standard technique
Yu Xiang George Kong (Australia)

P037 Short-term outcomes and prognostic factors of iStent in South Korea
Jonghoon Shin (South Korea)
P038  Efficacy and safety of XEN gel stent as primary surgical procedure: early experience in Korea  
Jaewan Choi (South Korea)

P039  One-year results for iStent inject for glaucoma and ocular hypertension in a real-world NHS setting  
Harikesh Kaneshayogan, Sri Yamshi Merugamala, Adam Booth, Salman Waqar (United Kingdom)

P040  Five-year outcomes of trabecular micro-bypass stents (iStent inject) combined with travoprost in glaucoma eyes on 2 preoperative medications  
Albert Khouri (USA)

P042  18-month outcomes of the Optimised Xen Implantation (OXI technique): a single-surgeon interventional case series of 150 ab-interno Xen implants with and without combined phacoemulsification in glaucoma patients  
Tasneem Khatib, Symeon Nicolaou, Asad Zaheer, Zhiheng Lin, Twishaa Sheth, Mahmoud Radwan, Golden Ogbonna, Chrysostomos Dimitriou (United Kingdom)

P043  Early results of PreserFlo MicroShunt in patients with glaucoma  
Lauren Van Lancker, Paolo Meier, Mohammed Abu-Bakra, Avi Kulkarni (United Kingdom)

P044  2-year outcomes following 2nd generation trabecular micro-bypass (iStent inject) Implantation with cataract surgery: a multi-centre, multi-surgeon study  
Colin Clement, David Manning, Michael Shiu, Alex Ioannidis, Simon Skalicky, Todd Goodwin, Ridia Lim, Frank Howes (Australia)

P045  Early complications of XEN gel stent in Korean population  
Seungsoo Rho1,2 (1United Kingdom, 2South Korea)

P046  A systematic review and meta-analysis of outcome in minimally-invasive glaucoma surgeries  
Marion Luise Kvasnica (Germany)
P047  One-year treatment outcomes of a novel glaucoma tube shunt implant for refractory glaucoma
Victor Teck Koh¹², Cecilia Aquino¹, Giacinto Triolo², Henrietta Ho², Visanee Tantisivitnantisivit³, Prin Rojanapongpun³, Seng Kheong Fang⁴, Poemen Chan⁵, Clement Tham⁵, Sheng Lim², Paul Chew¹, Keith Barton² (¹Singapore, ²United Kingdom, ³Thailand, ⁴Malaysia, ⁵Hong Kong)

P048  2 year outcomes of the XEN implant with minimal bleb needling
Zaria Christine Ali, Nadeem Mohsin, Vikas Shankar (United Kingdom)

P049  Can we reduce needling after XEN implantation
Claudia Quijano, Shaista Giny, Dan Lindfield (United Kingdom)

P050  Evaluation of iStent inject in pseudophakic eyes with open angle glaucoma: preliminary results
Vishal Vohra, Indira Madgula, Bhavani Karri (United Kingdom)

P051  Effectiveness and safety of the implantation of trabecular microbypass device “iStent inject w” in comparison with “iStent inject” accompanied with phaco surgery
Abdelwahhab Azzawi (Germany)

P052  Two-year pooled safety outcomes from three studies following microshunt implantation in patients with primary open-angle glaucoma (POAG)
Henny Beckers¹, Juan Batlle², Julián García-Feijoó³, Isabelle Riss⁴ (¹The Netherlands, ²Dominican Republic, ³Spain, ⁴France)

P053  Xen® gel implant in a patient with Posner-Schlossman Syndrome. A case report
Enara Etxabe Agirre, Mayerling M. Suriano, Irene Gregori Gisbert, Mireia Mascarell Vidal, Sara Mora Sáez (Spain)
NEW TECHNOLOGY

P054 Heads-up glaucoma surgery using a 3D visualization system
Kazuhiko Mori, Yuji Yamamoto, Morio Ueno, Yoko Ikeda (Japan)

P055 Micropulse diode laser cyclophotocoagulation: initial results and safety profile
Brinda Shah, Apurva Goray, Safaa Mahmoud, Paritosh Shah (United Kingdom)

P056 The effect of glaucoma on driving performance
Fang Helen Mi, Boon Ang Lim, Wei Leon Leonard Yip (Singapore)

P057 Human limbal mesenchymal stem cells augmented trabeculectomy in high-risk glaucoma: a pilot study
Rashmi Krishnamurthy, Sirisha Senthil, Sayan Basu, Vivek Singh (India)

P058 Clinical observation of deep sclera and Descemet membrane incision for glaucoma
Xiuqin Zhao, Luhong Liu, Jinsong Zhang (China)

P059 High-intensity focused ultrasound treatment in moderate glaucoma patients: results of a 2-year prospective clinical trial
Yair Rubinstein, Ari Leshno, Alon Skaat, Reut Singer, Shlomo Melamed (Israel)

P060 Evaluation of endothelial cell density and loss following iTrack ab-interno canal based surgery
David Lubeck, Paul Singh, Robert Noecker (Australia)

NON-PENETRATING SURGERY

P061 Gonioscopy-assisted transluminal trabeculotomy (GATT): One year follow-up with evaluation of safety and efficacy
Natalia Maes¹, Gavin Docherty², Steven Schendel² (¹United Kingdom, ²Canada)
OCULAR IMAGING

P064  Macula microvasculature changes in patients with primary open angle and normal tension glaucoma; an OCTA study
Anna Dastiridou, Maria Samouilidou, Paraskevi Riga, Eleftherios Anastasopoulos, Sofia Androudi, Nikolaos Ziakas (Greece)

TRABECULECTOMY

P066  One year efficacy and safety of ab interno trabeculectomy with Kahook Dual Blade in Japanese glaucoma patients
Aya Suigiura, Takashi Fujishiro, Takashi Oomoto, Hiroshi Murata, Ryo Asaoka, Kouichirou Sugimoto, Rei Sakata, Megumi Honjo, Makoto Aihara (Japan)

P067  Management of bleb failure after trabeculectomy
Elif Erdem, Inan Harbiyeli, Anıl Uysal, Meltem Yagmur, Reha Ersoz (Turkey)

P068  New suturing technique in trabeculectomy
Mohsen Afroozifar, Mohammad Pakravan, Shahin Yazdani (Iran)

P069  The Tenon’s layer repositioning approach of trabeculectomy - A longitudinal case series of a mixed group of glaucoma patients
Liam Yin Nam Wong, Poemen P.M. Chan, Tommy C.Y. Chan, Gilda Lai, Nafees Baig (Hong Kong)

P070  Short-term results of combined phacoemulsification and ab interno trabeculectomy in the United Kingdom
Deva Loganathan, Ejaz Ansari (United Kingdom)

P071  Comparison of corneal endothelium analysis before and after surgery in patients undergoing trabeculectomy with mitomycin-C
Ibrahim Inan Harbiyeli, Oguzhan Oruz, Elif Erdem, Meltem Yagmur, T. Reha Ersöz (Turkey)
P072  Trabeculectomy failure rates between phakic and pseudophakic patients with open angle glaucoma
Sónia Torres-Costa¹, António Melo¹, Sérgio Estrela-Silva¹, Fernando Falcão-Reis¹, João Barbosa Breda¹,² (¹Portugal, ²Belgium)

P073  Visual field changes following trabeculectomy: a retrospective study
Mubashir Siddiqui, Tawfeeq Hakim, Pornjittra Rattanasirivilai, Vikas Shankar (United Kingdom)

P075  A decade of difference: a 10-year comparison of trabeculectomy surgery
Haaris Shiwani, Salman Naqvi, Cristina Cristian, Leon Au, Anne F. Spencer, Cecilia H. Fenerty, Karl J. Mercieca (United Kingdom)

P076  Comparative evaluation of trabeculectomy versus trabeculectomy combined with deep sclerectomy- a randomized control trial
Arpit Sharma, Ramanjit Sihota, Shikha Gupta, Dewang Angmo, Tanuj Dada (India)

P077  Can trabeculectomy restore the ocular surface?
Vanita Pathak Ray, Suharsha Paidmarri, Nagaraju Konda, Varun Malhotra (India)

P078  Long term outcomes of trabeculectomy in uncontrolled advanced open angle glaucoma patients
Anca Pantalon, Dorin Chisellita (Romania)

P079  Corneal biomechanical behavior after glaucoma surgery
Vassilios Kozompolis (Greece)

P080  Use of intracameral bevacizumab in trabeculectomy, advantage or not?
Maria Elisa Luís, Diogo Hipólito-Fernandes, Rita Serras-Pereira, Catarina Xavier, Nuno Moura-Coelho, Maria Reina, Joana Cardigos (Portugal)
TUBE SHUNTS

P081 Long-term changes of the corneal endothelial cell density after Ex-Press® drainage device implantation for Japanese glaucoma patients Yurika Aoyama, Rei Sakata, Takashi Fujishiro, Megumi Honjo, Shiroaki Shirato, Makoto Aihara (Japan)

P083 Effect of modified post-surgical care on outcomes of Ahmed glaucoma valve (AGV) and Baerveldt glaucoma implant (BGI) surgery for neovascular glaucoma (NVG) Mayumi Minami, Etsuo Chihara (Japan)

P084 Comparison of mitomycin-C use as an adjunctive therapy in Baerveldt tube surgery Anindyt Nagar, Lina Danieliute, Henrietta Ho, Ian Rodrigues (United Kingdom)

P085 Nasal Ahmed glaucoma valve implantation a final solution to superior temporal quadrant failure Carolina Madeira, Gonçalo Godinho, António Melo, Fernando Falcão-Reis, Sérgio Silva (Portugal)

P086 Intraluminal stent choice for the Baerveldt glaucoma implant Lina Danieliute, Anindyt Nagar, Henrietta Ho, Ian Rodrigues (United Kingdom)

P087 Outcomes of combined Baerveldt glaucoma implant and trabeculectomy with mitomycin C in patients with advanced glaucoma Henrietta Ho, Saurabh Goyal (United Kingdom)

P088 Outcomes and risk factor for failure after aqueous shunt implants - Annual review of one service results and benchmark Renata Puertas¹, Fernanda N. Susanna², Ameeet Shah¹, Fabiola Murta¹, Vaneeta Sood¹, Ashkan Khalili, Keith Barton¹ (¹United Kingdom, ²Brazil)
P089  Efficacy and safety of the ab-interno xen gel stent after failed shunt surgery in advanced glaucoma patients  
Eran Berkowitz, Beatrice Tiosano (Israel)

**WOUND HEALING MODULATION**

P090  Comprehensive bioinformatic event simulation studies on wound healing in trabeculectomy by utilizing functional gene association and cellular event analysis: a focus on gene modulation to improve surgical outcomes  
Rayees Sofi\(^1\), Anoop Sainulabdeen\(^2\), Muneeb A. Faiq\(^1,2\), Muzafar Pandit\(^1\) (\(^1\)India, \(^2\)USA)

P092  5-fluorouracil vs mytomicin-C in bleb revision  
Fernando Trancoso Vaz, Rita Basto, Joana Roque, Susana Henriques (Portugal)

P093  Prolongation of immunosuppressants delivery for wound healing modulation in glaucoma surgery: experimental in vitro study  
Viktoriia Germanova, Elena Karlova, Andrey Zolotarev, Aleksandr Korigodskiy (Russia)

P094  Rescue of a non-functioning Xen\(^\circledast\)  
Mireia Mascarell Vidal, Mayerling M. Suriano, Irene Gregori Gisbert, Enara Etxabe Agirre, Sara Mora Saez (Spain)

**OTHER**

P095  Effects of acupuncture on primary open angle glaucoma  
Siham M. Fahmy (Egypt)

P096  Clinical evaluation of blood-filling patterns in Schlemm’s canal for trabectome surgery  
Kae Sugihara, Akiko Narita, Naruka Mitsui, Seido Okuda, Tomoko Ishikawa, Miki Nos, Jiro Seguchi (Japan)
P097  A rare case of glaucoma in familial amyloidosis polyneuropathy due to transthyretin variant, p.Glu74Gly
Selina Khan, Rani Sebastian, Demetrios Manasses (United Kingdom)

P098  Burden and quality of life among primary caregivers of glaucoma patients
Deeksha Rani, Vivek Gupta, Arjun Desai, Tanuj Dada (India)

P099  Evaluation of retinal nerve fiber layer and canglion cell-inner plexiform layer loss in patients with primary open angle glaucoma
Asaad A. Ghanem (Egypt)

P100  Endothelin-1 and nitric oxide levels in patients with glaucoma
Asaad A. Ghanem (Egypt)
SPONSORED SYMPOSIUM

Assembly Hall

13.00  SANTEN EDUCATIONAL PARTNER LUNCH SYMPOSIUM

14.30  EVOLVING LANDSCAPE IN GLAUCOMA MANAGEMENT
Moderator: Keith Barton (United Kingdom)

13.30  Welcome and introduction
Keith Barton (United Kingdom)

13.35  Unmet need in an evolving glaucoma management landscape
Arvind Neelakantan (USA)

13.50  When does my patient want surgery?
Julian García-Feijoó (Spain)

14.05  The maximum potential of subconjunctival MIGS
Keith Barton (United Kingdom)

14.20  Panel discussion
Keith Barton (United Kingdom)

14.30  Meeting close
SPONSORED SYMPOSIUM

Assembly Hall

13.00 ALLERGAN EDUCATIONAL PARTNER LUNCH SYMPOSIUM
14.30 CURRENT TREATMENT AND FUTURE PERSPECTIVES IN GLAUCOMA THERAPY
Moderators: Keith Barton (United Kingdom), Michael Coote (Australia)

13.20 Welcome and introduction
Keith Barton (United Kingdom), Michael Coote (Australia)

13.25 Unmet needs in glaucoma therapy
Francisco Goñi (Spain)

13.33 Challenges of the patient journey
Anton Hommer (Austria)

13.41 Panel discussion with Q&A

13.49 Emerging therapies in glaucoma
Keith Martin (Australia)

14.01 Updates from advanced pipeline products
Andrew Tatham (United Kingdom)

14.13 Panel discussion with Q&A

14.25 Summary and symposium close
SPONSORED SYMPOSIUM

Assembly Hall

13.00  GLAUKOS EDUCATIONAL PARTNER LUNCH SYMPOSIUM

14.30  TRABECULAR MICRO-BYPASS FOR MILD-TO-MODERATE GLAUCOMA

Moderator: Imran Masood (United Kingdom)

Ocular surface disease

The glaucoma treatment algorithm

Why trabecular micro-bypass

Patient selection and management

Long-term data

Surgical technique and pearls

The value of trabecular micro-bypass

Speakers: Antonio Fea (Italy), Julian García-Feijoó (Spain), Paul Harasymowycz (Canada), Albert Khouri (USA)
ACKNOWLEDGEMENTS
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GLAUKOS Symposium
ICGS congress, London

Title: Trabecular Micro-Bypass for Mild-to-Moderate Glaucoma

Moderator: Mr Imran Masood (UK)

Date: Saturday, 8th February
Time: 1:00 pm to 2:30 pm
Location: Plenary Room, Assembly Hall

Speakers:
• Dr Antonio Fea (Italy)
• Prof Julian Garcia Feijoo (Spain)
• Dr Paul Harasymowycz (Canada)
• Dr Albert Khouri (USA)

Join Mr Imran Masood and colleagues for the latest on trabecular micro-bypass in patients who have mild-to-moderate glaucoma. These glaucoma thought-leaders will discuss:

- Ocular surface disease
- The glaucoma treatment algorithm
- Why trabecular micro-bypass
- Patient selection and management
- Long-term data
- Surgical technique and pearls
- The value of trabecular micro-bypass
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