

SCIENTIFIC PROGRAM

SCIENCE FOR BETTER GLAUCOMA CARE
ADVANCES THAT MAKE PATIENTS' LIFE BETTER

SUNDAY - JUNE 17, 2012

Tivoli Congress Center

17.30-19.00

Welcome Reception

June 17, 2012
Sunday

MONDAY - JUNE 18, 2012

June 18, 2012
Monday

8.30-8.50

WELCOME

Tivoli Congress Hall

C.E. Traverso (Italy) - EGS President

J. Thygesen (Denmark) - Local Organizing Committee Chair

F. Grehn (Germany) - WGA President

K. Singh (USA) - Past WGA EVP

8.50-10.00

Main Session I

Tivoli Congress Hall

EPIDEMIOLOGY AND RISK FACTORS

Chair: **S. Miglior** (Italy)

Facilitators: **A. Azuara Blanco** (United Kingdom), **F. Topouzis** (Greece)

Keynote Lecture

KL1

Incident glaucomas in the next decade in Europe and other continents

R.A. Hitchings (United Kingdom)

MSI.1 Certainties and controversies in risk factors: clinical implications
S. Miglior (Italy)

MSI.2 Ocular perfusion pressure: theoretical or promising concept
F. Topouzis (Greece)

MSI.3 Case finding: sense and no sense of screening
A. Tuulonen (Finland)

MSI.4 Strategies to decrease the risk of undiagnosed glaucoma
A. Coleman (USA)

10.00-10.30

E-Poster Area

Poster Discussion

• **EPIDEMIOLOGY, HEALTH ECONOMICS, QUALITY OF LIFE**

Poster facilitator: **A. Azuara Blanco** (United Kingdom)

• **BASIC SCIENCE, GENETICS, NEUROPROTECTION, BLOOD FLOW**

Poster facilitators: **K. Martin** (United Kingdom), **E. Tamm** (Germany)

• **GLAUCOMA PHENOTYPES**

Poster facilitators: **I. Stalmans** (Belgium), **J. Thygesen** (Denmark)

See pages 48-56 for details



SCIENTIFIC PROGRAM
MONDAY - JUNE 18, 2012

Tivoli Congress Hall

10.30-12.00

Main Session 2

GLAUCOMA BIOMECHANICS: FROM EXPERIMENTAL MODELS TO CLINICAL EVIDENCE AND RELEVANCE

Chair: **N. Pfeiffer** (Germany)

Facilitators: **J. García Feijoo** (Spain), **S. Orgül** (Switzerland)

Keynote Lectures

- KL2 The importance of mechanical pressure on ONH damage
H. Quigley (USA)
- KL3 Biomechanics of ONH
C. Burgoyne (USA)

- MS2.1 Intracranial pressure and glaucoma
J. Jonas (Germany)
- MS2.2 Plasticity of the meshwork
E. Tamm (Germany)
- MS2.3 Pro/Con: controversies on IOP fluctuations
A. Heijl (Sweden), **A.G.P. Konstas** (Greece)

12.00-12.25

NEW IDEAS I

Facilitator: **B. Cvenkel** (Slovenia)

Tivoli Congress Hall

- NII.1 Modulation of Trk B receptor activity by Shp-2 in retinal ganglion cells in glaucoma
S.L. Graham, V. Gupta, Y. You (Australia)
Discussant: **E. Tamm** (Germany)
- NII.2 Magnesium balance disorders in POAG: a motivation for treatment with magnesium-containing medication
L. Arutyunyan, E. Iomdina, O. Kiseleva, L. Vasilenkova, M. Arefyeva (Russia)
Discussant: **K. Martin** (United Kingdom)
- NII.3 Search for systemic biomarkers in POAG: the levels of circulating and functioning T-REG lymphocytes correlate with 5-year visual field rate of progression
S. Gandolfi, R. Aldigeri, N. Ungaro, D. Paoli, M. Tardini (Italy)
Discussant: **A.C. Viswanathan** (United Kingdom)



SCIENTIFIC PROGRAM
MONDAY - JUNE 18, 2012

Tivoli Congress Hall

12.30-14.00

**Educational Partner Lunchtime Symposium - ALLERGAN
OPTIMAL GLAUCOMA MANAGEMENT IN 2012**

Chairs: **F.J. Goñi** (*Spain*), **A. Heijl** (*Sweden*)

- SI.1 Introduction and Welcome
F.J. Goñi (*Spain*), **A. Heijl** (*Sweden*)
- SI.2 Progress II - The Spanish Study (PSS) or "Why it is important to measure progression in clinical practice"
F.J. Goñi (*Spain*)
- SI.3 Measuring structural progression in clinical practice
D. Garway Heath (*United Kingdom*)
- SI.4 Measuring functional rate of progression in clinical practice
A. Heijl (*Sweden*)
- SI.5 Can a change of management influence rate of progression?
B. Chauhan (*Canada*)
- SI.6 Rate of progression and decision making
L.M. Rossetti (*Italy*)
- SI.7 Optimal management of glaucoma - Is it preservative free?
D. Day (*USA*)
- SI.8 Q&A - Optimal glaucoma management
A. Heijl (*Sweden*)
Panel: **B. Chauhan** (*Canada*), **D. Garway Heath** (*United Kingdom*), **F.J. Goñi** (*Spain*),
L.M. Rossetti (*Italy*)
- SI.9 Close and sum up
F.J. Goñi (*Spain*), **A. Heijl** (*Sweden*)

June 18, 2012
Monday



SCIENTIFIC PROGRAM
MONDAY - JUNE 18, 2012

14.15-15.15

INSTRUCTIONAL COURSES I (8 parallel)

Room Carstensen

- CI.1 **THE VISUAL FIELD IN GLAUCOMA I** (advanced)
F.J. Goñi (*Spain*), P. Brusini (*Italy*), D. Garway Heath (*United Kingdom*)

Room Lumbye

- CI.2 **GONIOSCOPY** (basic)
Y. Lachkar (*France*)

Room Harlekin

- CI.3 **GLAUCOMA SURGERY** (basic/intermediate)
F. Grehn (*Germany*), P.T. Khaw (*United Kingdom*)

Room Columbine

- CI.4 **ANGLE CLOSURE** (basic)
J. Thygesen (*Denmark*), G. Gazzard (*United Kingdom*), P. Rojanapongpun (*Thailand*)

Room Pjerrot

- CI.5 **HRT IN DAILY PRACTICE** (intermediate)
T. Zeyen (*Belgium*), R. Burk (*Germany*), B. Chauhan (*Canada*)

Room Dansetten

- CI.6 **AQUEOUS TUBE IMPLANTATION** (intermediate/advanced)
K. Barton (*United Kingdom*)

Room Paafuglen

- CI.7 **GENERICS OF OPHTHALMIC PRODUCTS - A GAP BETWEEN SCIENCE AND LEGISLATION**
A. Harris (*USA*), M. Diestelhorst (*Germany*), I. Januleviciene (*Lithuania*)

Room Kastanjen

- CI.8 **NEURO-OPHTHALMOLOGY DIFFERENTIAL DIAGNOSIS OF GLAUCOMA** (intermediate)
M. Moster (*USA*), M.I. Moster (*USA*)

15.15-15.45 Break



SCIENTIFIC PROGRAM
MONDAY - JUNE 18, 2012

15.45-16.45

INSTRUCTIONAL COURSES 2 (8 parallel)

Room Carstensen

- C2.1 **THE VISUAL FIELD IN GLAUCOMA II** (advanced)
F.J. Goñi (*Spain*), P. Brusini (*Italy*), D. Garway Heath (*United Kingdom*)

Room Lumbye

- C2.2 **SAFE TRABECULECTOMY** (advanced)
T. Zeyen (*Belgium*), P.T. Khaw (*United Kingdom*)

Room Harlekin

- C2.3 **ANGLE SURGERY I: NEW BLEBLESS GLAUCOMA SURGERIES** (basic/intermediate)
S. Gandolfi (*Italy*), R. Lewis (*USA*)

Room Columbine

- C2.4 **IS THERE AN ACCURATE MEASURING DEVICE? WHICH ONE CAN WE TRUST AND WHEN? HOW MUCH DOES CORNEAL THICKNESS MATTER?**
M. Iliev (*Switzerland*), F. Meier-Gibbons (*Switzerland*), A. Mermoud (*Switzerland*),
J. Stürmer (*Switzerland*), G. Sunaric Megevand (*Switzerland*)

Room Pjerrot

- C2.5 **CATARACT SURGERY IN GLAUCOMA PATIENTS**
C.E. Traverso (*Italy*), J. Garcia Feijoo (*Spain*), A. Bagnis (*Italy*)

Room Dansetten

- C2.6 **TRABECULAR MESHWORK CHANGES IN POAG** (basic/intermediate)
I. Grierson (*United Kingdom*), E. Tamm (*Germany*)

Room Paafuglen

- C2.7 **HOW TO UNDERSTAND AND INTERPRET THE RESULTS OF CLINICAL TRIALS**
L. Schmetterer (*Austria*), P. Founti (*Greece*), G. Garhöfer (*Austria*)

Room Kastanjen

- C2.8 **RATES OF PROGRESSION IN GLAUCOMA** (basic/intermediate)
A. Heijl (*Sweden*), B. Chauhan (*Canada*)

June 18, 2012
Monday



SCIENTIFIC PROGRAM
TUESDAY - JUNE 19, 2012

Tivoli Congress Hall

8.30-10.00

Main Session 3

GLAUCOMA BEYOND IOP

Chair: **S. Orgül** (Switzerland)

Facilitators: **I. Januleviciene** (Lithuania), **K. Martin** (United Kingdom)

Keynote Lecture

- KL4 Neurodegeneration seen from a non-ophthalmic standpoint
L. Schmetterer (Austria)

- MS3.1 Glaucoma as a neurodegenerative disease, viewed from the glaucoma side
N. Osborne (United Kingdom)
- MS3.2 Glaucoma as a neurodegenerative disease, viewed from the neuroscience side
H. Wässle (Germany)
- MS3.3 Glaucoma as a genetic disease: relevance of phenotyping
A.C. Viswanathan (United Kingdom)
- MS3.4 Low-grade inflammation and glaucoma
J.C. Tsai (USA)
- MS3.5 Practical approach beyond IOP
I. Stalmans (Belgium)

10.00-10.30

Poster Discussion

• **IMAGING, PSYCHOPHYSICS, INTRAOCULAR PRESSURE, BIOMECHANICS**

Poster facilitators: **M. Iester** (Italy), **I. Januleviciene** (Lithuania), **A.C. Viswanathan** (United Kingdom)
See pages 57-66 for details

E-Poster Area

10.30-12.00

Main Session 4

**IMAGING AND VISUAL FIELD FOR INITIAL GLAUCOMA DIAGNOSIS:
A CONTROVERSY?**

Chair: **R.A. Hitchings** (United Kingdom)

Facilitators: **D. Garway Heath** (United Kingdom), **A. Heijl** (Sweden)

Tivoli Congress Hall

Keynote Lecture

- KL5 Pathways that lead to accurate diagnosis in glaucoma
G.L. Spaeth (USA)

- MS4.1 Imaging as a primary diagnostic tool
H. Lemij (The Netherlands)
- MS4.2 VF as a primary diagnostic tool
B. Bengtsson (Sweden)
- MS4.3 Assessment of the optic nerve head: time for a paradigm change?
B. Chauhan (Canada)

Panel discussion

- MS4.4 Value of the different imaging technologies
Facilitator: **M. Iester** (Italy)
Panelists: **D. Garway Heath** (United Kingdom), **G. Holló** (Hungary),
M. Iliev (Switzerland), **H. Lemij** (The Netherlands)

SCIENTIFIC PROGRAM
TUESDAY - JUNE 19, 2012

12.00-12.25
NEW IDEAS 2

Facilitator: **F. Topouzis** (Greece)

Tivoli Congress Hall

- NI2.1 Involvement of RhoA/Rho-associated kinase signal transduction pathway in the dexamethasone-induced alterations in aqueous outflow
T. Fujimoto, T. Inoue, M. Inoue-Mochita, T. Kameda, N. Kasaoka, H. Tanihara (*Japan*)
Discussant: **L. Schmetterer** (Austria)
- NI2.2 The effect of monocyte chemoattractant protein-1/CC chemokine ligand 2 on the aqueous humor outflow facility
N. Tsuboi, T. Inoue, T. Fujimoto, M. Inoue-Mochita, N. Kasaoka, M. Kawai, K. Shobayashi, A. Yoshida, H. Tanihara (*Japan*)
Discussant: **I. Stalmans** (Belgium)
- NI2.3 Visual pathway damage in glaucoma revealed by diffusion tensor MRI and correlation analysis with clinical severity
Z. Chen, F. Lin, Z. Li, J. Wang, H. Dai, K. Mu, J. Ge, H. Zhang (*China*)
Discussant: **M. Iester** (Italy)

12.30-14.00

Educational Partner Lunchtime Symposium - ALCON

OPTIMISING MEDICAL AND SURGICAL OUTCOMES IN GLAUCOMA CARE

Chairs: **J. Thygesen** (Denmark), **F. Topouzis** (Greece)

Tivoli Congress Hall

- S2.1 Managing open-angle glaucoma as a 24-hour disease for a lifetime
H. Dubiner (USA)
- S2.2 Going beyond IOP control in glaucoma care
N. Pfeiffer (Germany)
- S2.3 Chronic use of preservatives - What we know today?
A. Labbé (France)
- S2.4 Preservatives and ocular surgery outcomes
E. Messmer (Germany)
- S2.5 New advances in managing complexities in glaucoma surgery
T. Shaarawy (Switzerland)

June 19, 2012
Tuesday



SCIENTIFIC PROGRAM
TUESDAY - JUNE 19, 2012

14.15-15.15
INSTRUCTIONAL COURSES 3 (8 parallel)

Room Carstensen

- C3.1 **GLAUCOMA SURGERY: POSTOPERATIVE MANAGEMENT AND COMPLICATIONS I. MORE ON FILTERS THAN ON TUBES**
(intermediate)
C.E.Traverso (*Italy*), F. Grehn (*Germany*), M. Papadia (*Italy*)

Room Lumbye

- C3.2 **GLAUCOMA CARE IN DEVELOPING COUNTRIES**
K. Singh (*USA*), K. Barton (*United Kingdom*), T. Shaarawy (*Switzerland*)

Room Harlekin

- C3.3 **ANGLE SURGERY II: NEW BLEBLESS GLAUCOMA SURGERIES** (basic/intermediate)
S. Gandolfi (*Italy*), J. García Feijoo (*Spain*)

Room Columbine

- C3.4 **DISC PHOTOGRAPHS FOR DIAGNOSIS** (intermediate/advanced)
J. Morgan (*United Kingdom*)

Room Pjerrot

- C3.5 **INTERPRETATION OF VISUAL FIELDS** (basic/intermediate)
P. Brusini (*Italy*), F.J. Goñi (*Spain*)

Room Dansetten

- C3.6 **MEDICAL MANAGEMENT OF POAG/EGS FLOW CHARTS** (basic/intermediate)
J. Thygesen (*Denmark*), A. Hommer (*Austria*)

Room Paafuglen

- C3.7 **DISABILITY FOR GLAUCOMA** (intermediate)
A.C.Viswanathan (*United Kingdom*)

Room Kastanjen

- C3.8 **HOW TO IMPROVE COMPLIANCE?**
F. Meier-Gibbons (*Switzerland*), M. Iliev (*Switzerland*), T. Shaarawy (*Switzerland*)

15.15-15.45 Break

SCIENTIFIC PROGRAM
TUESDAY - JUNE 19, 2012

15.45-16.45

INSTRUCTIONAL COURSES 4 (8 parallel)

Room Carstensen

- C4.1 **GLAUCOMA SURGERY: POSTOPERATIVE MANAGEMENT AND COMPLICATIONS II. MORE ON FILTERS THAN ON TUBES**

(intermediate)

C.E.Traverso (*Italy*), K. Barton (*United Kingdom*), M. Papadia (*Italy*)

Room Lumbye

- C4.2 **IOP: A SCIENTIFIC LOOK AT THE UPS AND DOWNS** (intermediate)

L.E. Pillunat (*Germany*), A.G.P. Konstas (*Greece*)

Room Harlekin

- C4.3 **IDENTIFYING GLAUCOMATOUS VISUAL FIELD PROGRESSION IN CLINICAL PRACTICE** (basic/intermediate)

A. Anton Lopez (*Spain*), F.J. Goñi (*Spain*)

Room Columbine

- C4.4 **ANGLE CLOSURE** (advanced)

J. Thygesen (*Denmark*), G. Gazzard (*United Kingdom*),
P. Rojanapongpun (*Thailand*)

Room Pjerrot

- C4.5 **TRICKS ON HOW TO IMPROVE GLAUCOMA SURGERY**

A. Mermoud (*Switzerland*), R. Burk (*Germany*), M. Iliev (*Switzerland*), T. Shaarawy (*Switzerland*),
I. Stalmans (*Belgium*), J. Stürmer (*Switzerland*), G. Sunaric Megevand (*Switzerland*)

Room Dansetten

- C4.6 **SECONDARY GLAUCOMAS** (basic/intermediate)

S. Gandolfi (*Italy*), K. Barton (*United Kingdom*)

Room Paafuglen

- C4.7 **GENETICS OF OAG** (advanced)

F. Topouzis (*Greece*), S. Duch (*Spain*), P. Founti (*Greece*), E. Milla (*Spain*),
A.C. Viswanathan (*United Kingdom*)

Room Kastanjen

- C4.8 **HEALTH ECONOMICS IN GLAUCOMA CARE** (basic/intermediate)

A. Azuara Blanco (*United Kingdom*), J. Burr (*United Kingdom*), R. De Natale (*Italy*),
A. Tuulonen (*Finland*)



SCIENTIFIC PROGRAM
TUESDAY - JUNE 19, 2012

SIGs – SPECIAL INTEREST GROUP MEETINGS

SG1 17.00-18.00
GLAUCOGENE
Chairs: **A.C.Viswanathan** (*United Kingdom*), **F.Topouzis** (*Greece*)

Room Paafuglen

SG2 17.00-18.30
HEALTH ECONOMICS
Chair: **A.Tuulonen** (*Finland*)

Room Kastanjen

17.00-18.30
DANISH GLAUCOMA SOCIETY SYMPOSIUM

Room Columbine

Danish posters will be discussed on June 19 from 10.00 to 10.30 - E-poster Area, screen 20

P4.123 The Danish multi-clinic glaucoma study. An ongoing clinical-epidemiological examination
L. Loumann Knudsen, J. Skov, J. Vad (*Denmark*)

P4.124 The pupillary light response in monolateral high tension glaucoma
C. Nissen, H. Lund-Andersen, B. Sander, M. Kolko, D. Milea (*Denmark, France*)



SCIENTIFIC PROGRAM
WEDNESDAY - JUNE 20, 2012

8.00-8.30
EGS GENERAL ASSEMBLY
For EGS Members only

Room Carstensen

8.30-10.00

Tivoli Congress Hall

Main Session 5

ISSUES IN THE DIAGNOSIS AND MANAGEMENT IN PRIMARY ANGLE CLOSURE

Chair: J. Thygesen (Denmark)

Facilitators: G. Gazzard (United Kingdom), J. Salmon (United Kingdom)

Keynote Lecture

KL6 Are there differences between ACG in Asia and Europe?
P. Chew (Singapore)

MS5.1 The role of imaging and gonioscopy
P. Foster (United Kingdom)

MS5.2 Iridotomy, iridoplasty
P. Denis (France)

MS5.3 Lens extraction, why and how
A. Azuara Blanco (United Kingdom)

MS5.4 Aqueous misdirection as a complication of ACG
G. Marchini (Italy)

10.00-10.30

Poster Discussion

• MEDICAL AND SURGICAL MANAGEMENT

Poster facilitators: J. Garcia Feijoo (Spain), J. Salmon (United Kingdom),
G. Sunaric Megevand (Switzerland)

See pages 67-76 for details

E-Poster Area

10.30-12.00

Tivoli Congress Hall

Main Session 6

MEDICAL THERAPY AND QUALITY OF LIFE

Chair: A. Hommer (Austria)

Facilitators: A. Bron (France), G. Sunaric Megevand (Switzerland)

Keynote Lecture

KL7 Medical therapy: making choices
N. Pfeiffer (Germany)

MS6.1 How to evaluate side effects
A. Bron (France)

MS6.2 Allergy versus toxicity
C. Baudouin (France)

MS6.3 How to evaluate efficacy of medical therapy - Uniocular versus binocular trial
A. King (United Kingdom)

MS6.4 Quality of generic drugs
G. Novack (USA)

MS6.5 Compliance with medical therapy: what did we learn from electronic monitoring?
M. Diestelhorst (Germany)

June 20, 2012
Wednesday

SCIENTIFIC PROGRAM

WEDNESDAY - JUNE 20, 2012

12.00-12.25

NEW IDEAS 3

Facilitator: **T. Zeyen** (Belgium)

Tivoli Congress Hall

- NI3.1 Comparative study between trabeculectomy with photodynamic therapy (BCECF-AM) and trabeculectomy with antimetabolite (MMC) in the treatment of primary open angle glaucoma
A.M. Saeed (Egypt)
Discussant: **G. Sunaric Megevand** (Switzerland)
- NI3.2 Systematized stenting of Baerveldt shunts: techniques to reduce early post-operative hypotony
J. D. Oleszczuk, C. Bergin, C. Bela, S. Andrei, L. Franscini, E. Sharkawi (Switzerland)
Discussant: **A. Azuara Blanco** (United Kingdom)
- NI3.3 The effectiveness of early lens extraction with intraocular lens implantation for the treatment of primary angle-closure glaucoma (EAGLE): baseline characteristics of enrolled participants
C. Cochran on behalf of the EAGLE Study Group (United Kingdom)
Discussant: **J. Salmon** (United Kingdom)

12.30-14.00

Tivoli Congress Hall

Educational Partner Lunchtime Symposium - MERCK SHARP & DOHME

EFFECTIVENESS IN GLAUCOMA TREATMENT: THE BALANCE OF POWERFUL IOP EFFICACY WITH REAL WORLD PATIENT TOLERABILITY

- S3.1 Opening remarks
R.A. Hitchings (United Kingdom)
- S3.2 Could preservatives impact on the trabecular meshwork and aqueous outflow
C. Baudouin (France)
- S3.3 The impact of side effects and adherence on outcomes
P. Denis (France)
- S3.4 Treating glaucoma – Preservative free
N. Pfeiffer (Germany)
- S3.5 New perspectives on 24-hour IOP management
A.G.P. Konstas (Greece)
- Q&A
- S3.6 Closing remarks
R.A. Hitchings (United Kingdom)

SCIENTIFIC PROGRAM
WEDNESDAY - JUNE 20, 2012

14.15-15.15

INSTRUCTIONAL COURSES 5 (7 parallel)

Room Carstensen

- C5.1 **CURRENT APPROACHES TO SURGERY OF ANGLE CLOSURE GLAUCOMA**
(intermediate/advanced)
A. Azuara Blanco (*United Kingdom*), P. Chew (*Singapore*), P. Foster (*United Kingdom*),
G. Gazzard (*United Kingdom*), J. Salmon (*United Kingdom*)

Room Lumbye

- C5.2 **PREVALENCE/INCIDENCE OF GLAUCOMA** (basic/intermediate)
F. Topouzis (*Greece*), E. Anastasopoulos (*Greece*), A. Tuulonen (*Finland*)

Room Harlekin

- C5.3 **OCULAR BLOOD FLOW AND GLAUCOMA**
A. Harris (*USA*), I. Januleviciene (*Lithuania*)

Room Columbine

- C5.4 **UVEITIC GLAUCOMA: PATHOGENESIS AND MANAGEMENT**
B. Teuchner (*Austria*), F. Meier-Gibbons (*Switzerland*), G. Sunaric Megevand (*Switzerland*)

Room Pjerrot

- C5.5 **GONIOSCOPY WORKSHOP**
A. Hommer (*Austria*), K. Rigal (*Austria*), T. Zeyen (*Belgium*)

Room Dansetten

- C5.6 **VISUAL FIELD AND STRUCTURAL MEASUREMENT FOR GLAUCOMA IN CLINICAL PRACTICE** (basic/intermediate)
I. Stalmans (*Belgium*), F.J. Goñi (*Spain*)

Room Kastanjen

- C5.7 **MODERN DEVELOPMENTS IN TONOMETRY** (intermediate/advanced)
A. Böhm (*Germany*)

15.15-15.45 Break

SCIENTIFIC PROGRAM

WEDNESDAY - JUNE 20, 2012

15.45-16.45

INSTRUCTIONAL COURSES 6 (6 parallel)

Room Carstensen

- C6.1 **NON PENETRATING GLAUCOMA SURGERY** (basic)
T. Shaarawy (*Switzerland*)

Room Lumbye

- C6.2 **RETINA SUCCESS, GLAUCOMA STRESS!** (intermediate)
L.E. Sararols Ramsay (*Spain*), F.J. Goñi (*Spain*), J. Suarez (*Spain*)

Room Harlekin

- C6.3 **PIGMENT DISPERSION-PIGMENTARY GLAUCOMA: "WHAT-TO-DO?"** (basic)
J. Salmon (*United Kingdom*), S. Gandolfi (*Italy*)

Room Columbine

- C6.4 **COURSE BY THE EUROPEAN VISION AND EYE RESEARCH ORGANIZATION: BASIC RESEARCH IN OPHTHALMOLOGY: THE JOURNEY FROM BENCH TO BEDSIDE**
L. Schmetterer (*Austria*), F. Cordeiro (*United Kingdom*), G. Garhöfer (*Austria*),
I. Stalmans (*Belgium*)

Room Pjerrot

- C6.5 **TARGET PRESSURE AND TARGET FUNCTION IN LONG-TERM GLAUCOMA MANAGEMENT** (intermediate)
G.L. Spaeth (*USA*), R.A. Hitchings (*United Kingdom*), T. Zeyen (*Belgium*)

Room Dansetten

- C6.6 **EGS GUIDELINES**
J. Thygesen (*Denmark*)

SCIENTIFIC PROGRAM
WEDNESDAY - JUNE 20, 2012

17.00-18.00

Room Dansetten

Portuguese Glaucoma Society Symposium

GLAUCOMA SURGERY IN THE ADULT - THE PORTUGUESE EXPERIENCE

Chairs: **M. Carvalho** (Portugal), **A. Figueiredo** (Portugal)

- GSI.1 Trabeculectomy
F. Trancoso Vaz (Portugal)
- GSI.2 Stainless steel filtration surgery implant
A. Futre Coelho (Portugal)
- GSI.3 Non penetrating surgery / Deep sclerectomy
T. Gomes (Portugal)
- GSI.4 Non penetrating surgery / Canaloplasty
I. Lopes Cardoso (Portugal)
- GSI.5 Gonioscopy surgery - transtrabecular micro implant
A. Figueiredo (Portugal)
- GSI.6 Posterior drainage devices
M. Carvalho (Portugal)
- GSI.7 Glaucoma and refractive surgery
M. da Luz Freitas (Portugal)

June 20, 2012
Wednesday

EGS SOCIAL DINNER

Wednesday, June 20, 2012 - h. 19.30

Wallmans Circusbuilding

(Reservations only)

SCIENTIFIC PROGRAM
THURSDAY - JUNE 21, 2012

Tivoli Congress Hall

8.30-10.00

Round Table I

NEW AND OLD SURGERIES: THE CONFLICT BETWEEN EFFICACY, SIDE EFFECTS, AND HALF-LIFE. THE PRESENT STATE

Chair: **R.A. Hitchings** (*United Kingdom*)

Facilitators: **F. Grehn** (*Germany*), **T. Shaarawy** (*Switzerland*)

Keynote Lecture

KL8 Mechanisms of glaucoma surgeries
R.N. Weinreb (*USA*)

RT1.1 Trabeculectomy

T. Zeyen (*Belgium*)

RT1.2 Non-penetrating surgery

A. Mermoud (*Switzerland*)

RT1.3 Angle surgeries

M. Grieshaber (*Switzerland*)

RT1.4 Tubes as primary surgery

K. Barton (*United Kingdom*)

RT1.5 Other implants as primary surgery

J. García Feijoo (*Spain*)

10.00-10.30 Break

10.30-12.25

Main Session 7

REAL LIFE AND MANAGEMENT PEARLS

Chair: **C.E. Traverso** (*Italy*)

Facilitators: **F. Grehn** (*Germany*), **A.C. Viswanathan** (*United Kingdom*)

Tivoli Congress Hall

MS7.1 Secondary glaucomas: the diagnoses that we miss most

J. Salmon (*United Kingdom*)

MS7.2 Medical management of secondary glaucomas

M. Misiuk-Hojlo (*Poland*)

MS7.3 Surgery in secondary glaucoma

R. Carassa (*Italy*)

MS7.4 Long-term post surgical management

T. Klink (*Germany*)

MS7.5 Visual results after glaucoma surgeries

T. Shaarawy (*Switzerland*)

Panel discussion

SCIENTIFIC PROGRAM
THURSDAY - JUNE 21, 2012

10.30-12.25

Main Session 7 (cont.)

REAL LIFE AND MANAGEMENT PEARLS

Tivoli Congress Hall

- MS7.6 Cost and benefit of preservative free medical treatment
F. Meier-Gibbons (*Switzerland*)
- MS7.7 How does glaucoma look? Patient perception of visual field defects
D. Crabb (*United Kingdom*)
- MS7.8 How to improve adherence
G. Manni (*Italy*)
- MS7.9 Patient related outcomes - Surrogate outcome versus real life
A.C. Viswanathan (*United Kingdom*)

Panel discussion

12.30-14.00

Educational Partner Lunchtime Symposium - SANTEN

CAN WE OPTIMIZE THE MEDICAL THERAPY OF GLAUCOMA?

Chair: **C.E. Traverso** (*Italy*)

Tivoli Congress Hall

- S4.1 Managing treatment side effects of glaucoma medications
C. Baudouin (*France*)
- S4.2 What can confocal microscopy tell us about our glaucoma patients?
H. Uusitalo (*Finland*)
- S4.3 When to use preservative-free formulations?
C. Erb (*Germany*)
- S4.4 Diurnal IOP control - Impact on glaucoma treatment
L.E. Pillunat (*Germany*)

June 21, 2012
Thursday

SCIENTIFIC PROGRAM
THURSDAY - JUNE 21, 2012

14.15-15.15
INSTRUCTIONAL COURSES 7 (8 parallel)

Room Carstensen

- C7.1 **GLAUCOMA SURGERY** (advanced)
F. Grehn (*Germany*)

Room Lumbye

- C7.2 **NON PENETRATING GLAUCOMA SURGERY** (advanced)
T. Shaarawy (*Switzerland*)

Room Harlekin

- C7.3 **POSTERIOR SEGMENT IMAGING TECHNOLOGY I** (basic/intermediate)
M. Iester (*Italy*), D. Garway Heath (*United Kingdom*), H. Lemij (*The Netherlands*)

Room Columbine

- C7.4 **FOCUS ON THE FILTERING BLEB: SIGNS AND PROCEDURES**
D. Grigera (*Argentina*), A. Bagnis (*Italy*), F. Grehn (*Germany*), M. Papadia (*Italy*)

Room Pjerrot

- C7.5 **EXFOLIATION** (basic/intermediate)
A.G.P. Konstas (*Greece*), G. Holló (*Hungary*), M. Irkeç (*Turkey*), D. Mikropoulos (*Greece*)

Room Dansetten

- C7.6 **ANTERIOR SEGMENT IMAGING TECHNOLOGY** (intermediate)
I. Stalmans (*Belgium*), M. Papadia (*Italy*)

Room Paafuglen

- C7.7 **SIMPLIFYING GLAUCOMA MANAGEMENT**
R. Susanna (*Brazil*), M. Hatanaka (*Brazil*)

Room Kastanjen

- C7.8 **REGENERATION IN GLAUCOMA**
F. Cordeiro (*United Kingdom*), D. Fischer (*Germany*), M. Clements (*United Kingdom*)

15.15-15.45 Break

SCIENTIFIC PROGRAM
THURSDAY - JUNE 21, 2012

15.45-16.45

INSTRUCTIONAL COURSES 8 (5 parallel)

Room Carstensen

- C8.1 **INNOVATION IN PAEDIATRIC GLAUCOMA SURGERY** (advanced)
J. Brookes (*United Kingdom*), J. García Fejoo (*Spain*), F. Grehn (*Germany*)

Room Lumbye

- C8.2 **LASER PROCEDURES IN GLAUCOMA** (basic/intermediate)
J. Thygesen (*Denmark*)

Room Harlekin

- C8.3 **POSTERIOR SEGMENT IMAGING TECHNOLOGY II** (basic/intermediate)
M. Iester (*Italy*), D. Garway Heath (*United Kingdom*), H. Lemij (*The Netherlands*)

Room Columbine

- C8.4 **LOW GRADE INFLAMMATION IN THE PATHOGENESIS OF GLAUCOMA**
M. Kolko (*Denmark*), F. Cordeiro (*United Kingdom*), F. Grus (*Germany*), I. Stalmans (*Belgium*)

Room Pjerrot

- C8.5 **REFRACTIVE SURGERY IN THE GLAUCOMA PATIENT** (basic/intermediate)
L.E. Pillunat (*Germany*), S. Kaminski (*Austria*)

16.45-17.45

Main Session 8

IOP MEASUREMENT

Chair: T. Zeyen (*Belgium*)

Facilitator: A. Tuulonen (*Finland*)

Room Carstensen

- MS8.1 Should we adjust Goldmann tonometry values based on CCT?
D. Garway Heath (*United Kingdom*)
- MS8.2 Alternative to Goldmann tonometry methods for IOP measurement.
What is the value in clinical practice?
A. Kotecha (*United Kingdom*)
- MS8.3 Developments in home tonometry
T. Zeyen (*Belgium*)
- MS8.3 IOP monitoring: where do we stand with telemetric readings?
M. Iliev (*Switzerland*)

Panel discussion

June 21, 2012
Thursday

FAREWELL RECEPTION

Tivoli Congress Center

h. 18.00



SCIENTIFIC PROGRAM

FRIDAY - JUNE 22, 2012

SIGs – SPECIAL INTEREST GROUP MEETINGS

- | | | |
|-------|---|-----------------------|
| SG3 | 9.30-10.30
PAEDIATRIC GLAUCOMA
Chair: F. Grehn (<i>Germany</i>) | Room Kastanjen |
| SG4 | 9.30-10.30
NEUROPROTECTION
ROUND TABLE DISCUSSION ON “WHERE ARE WE NOW IN NEUROPROTECTION ?”
Chair: F. Cordeiro (<i>United Kingdom</i>)
Discussants: F.J. Goñi (<i>Spain</i>), I. Stalmans (<i>Belgium</i>), G. Sunaric Megevand (<i>Switzerland</i>) | Room Dansetten |
| SG5 | 10.45-11.45
OCULAR BLOOD FLOW
Chair: I. Stalmans (<i>Belgium</i>) | Room Kastanjen |
| SG5.1 | From retinal venous pressure to intra-cranial pressure in glaucoma
J. Jonas (<i>Germany</i>) | |
| SG5.2 | Lack of spontaneous venous pulsation: a risk factor in NTG?
L. Pinto (<i>Portugal</i>) | |
| SG5.3 | Endothelin and retinal veins: a good target for glaucoma therapy?
L. Schmetterer (<i>Austria</i>) | |
| SG6 | 10.45-11.45
ANGLE CLOSURE
“Case Discussion and cases from hell”
Chair: G. Gazzard (<i>United Kingdom</i>) | Room Dansetten |

SCIENTIFIC PROGRAM

FRIDAY - JUNE 22, 2012

SIGs – SPECIAL INTEREST GROUP MEETINGS

12.00-13.00

Room Dansetten

SG7

EXFOLIATION GLAUCOMA

Chairs: **G. Holló** (*Hungary*), **A.G.P. Konstas** (*Greece*)

Welcome and presentation of the 2nd edition of the XFS/XFG book
G. Holló (*Hungary*), **A.G.P. Konstas** (*Greece*)

Scanning laser polarimetry in exfoliative glaucoma: useful to detect early cases?
A. Katsanos (*Greece*)

Short-term and long-term fluctuation of intraocular pressure in patients with pseudoexfoliation syndrome from the Erlangen Glaucoma Registry
C. Huchzermeyer (*Germany*)

Referral of exfoliative glaucoma patients to the first filtering surgery: too late action
G. Holló (*Hungary*)

Discussion

How can we improve the diagnosis and management of XFG?

INDUSTRY SPONSORED MINI-SYMPOSIA

MONDAY JUNE 18, 2012

17.00-18.00
SENSIMED
EXPLORING 24-H IOP MONITORING

Room Harlekin

17.00-18.00
HEIDELBERG ENGINEERING
PARADIGM CHANGE IN ONH RIM ASSESSMENT WITH SD-OCT

Room Columbine

TUESDAY JUNE 19, 2012

7.30-8.30
AEON ASTRON EUROPE
NOVEL GLAUCOMA SURGERY WITHOUT MMC - OLOGEN® COLLAGEN MATRIX
FOR TISSUE REPAIR

Room Harlekin

17.00-18.30
THÉA
EFFICACY AND TOLERANCE IN MEDICAL GLAUCOMA TREATMENT: UNMET NEEDS
AND NEW PERSPECTIVE

Room Harlekin

17.00-18.00
EYETECHCARE
UC³, ONE GIANT STEP IN GLAUCOMA - AN UPDATE

Room Dansetten

WEDNESDAY JUNE 20, 2012

17.00-18.00
ALCON
THE EVOLUTION IN GLAUCOMA SURGERY - LATEST ADVANCEMENTS IN
FILTRATION SURGERY

Room Carstensen

10th EGS Congress - Copenhagen
June 17-22, 2012

E-POSTERS



E-POSTERS

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EPIDEMIOLOGY, HEALTH ECONOMICS, QUALITY OF LIFE

SCREEN 1

- PI.1 Being a glaucoma patient in the Slovak or Czech Republic: is there a difference?
P. Vyborny, P. Dohnalova, S. Sicakova (*Czech Republic*)
- PI.2 Ocular biometric and anterior segment optical coherence tomography comparison between Japanese and Chinese
T. Mizoguchi, M.E. Nongpiur, M. Ozaki, T. Aung (*Japan, Singapore*)
- PI.3 Follow-up of optic disc haemorrhages referrals from DRSS (Diabetic Retinopathy Screening Service) to glaucoma clinics
S. Boukouvala, M. Raja, C. Goldsmith, S. Mukherji (*United Kingdom*)
- PI.4 Correlation between optic nerve head retinal nerve fibre layer thickness and posterior pole retinal thickness in Asians
D. Su, H. Htoon, R. Husain, M. Rosman, D. Goh, A. How, T. Aung (*Singapore*)
- PI.5 Frequency of glaucoma among patients referred to a Brazilian university hospital
M.d.L. Veronese Rodrigues, T.G. Biberg-Salum, P.A. Arruda Mello, A.D. Costa Passos, R. Souza Carvalho, H. Tavares-Gradvohl, M. Jordao, N. Kara-Jose, J. Silva Paula (*Brazil*)
- PI.6 Risk factors and glaucoma
O. Vitovska, S. Rykov, N. Obukhova, S. Zbitneva, I. Deryapa (*Ukraine*)

SCREEN 2

- PI.7 Ocular biometry in the adult population in rural central China. A population-based, cross-sectional study
J.M. Wang, X.F. Sun, Z.Q. Chen, J.W. He, K. Qiao, Y.W. Song, W. Chen, J.M. Guo, R. Xia, X.F. Yu, H. Zhang (*China*)
- PI.8 Validation of non-mydriatic fundus photography for the detection of glaucoma in diabetic patients
F.J. Munoz-Negrete, I. Contreras, G. Rebolleda, N.O. Llamazares (*Spain*)
- PI.9 Effect of oxidative stress and no intake of solanum aethiopicum vegetables in the development of open angle glaucoma (OAG) among black Central Africans
M. Mvitu Muaka, B. Longo-Mbenza, D. Kibokela Ndembe, D. Tulomba Mona (*Congo, South Africa*)
- PI.10 Sclera thickness in human globes and its relations to age, axial length and glaucoma
S. Panda-Jonas, S. Vurgese, J. Jonas (*Germany*)
- PI.11 Neuroretinal rim area and body mass index
J. Jonas, L. Xu, Y. Wang, S. Wang (*Germany, China*)
- PI.12 Congenital glaucoma in Denmark 1977-2006
N. Zibrandtsen, D. Bach-Holm, L. Sandfeld Nielsen (*Denmark*)

SCREEN 3

- PI.13 Association of the metabolic syndrome with ocular hypertension and open-angle glaucoma: the Alienor Study
E. Bardet, C. Schweitzer, F. Malet, A. Cougnard-Grégoire, M.-N. Delyfer, J.-F. Korobelnik, M.-B. Rougier, J.-F. Dartigues, C. Delcourt J. Colin (*France*)
- PI.14 Using neural networks to detect glaucoma suspects in a community-based screening Program
P.B.M. Thomas, A.J.R. White, J. Keenan, K.R. Martin (*United Kingdom*)



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EPIDEMIOLOGY, HEALTH ECONOMICS, QUALITY OF LIFE

SCREEN 3 (cont.)

- PI.15 Comparison of corneal biomechanics between glaucomatous, hypertensive and normal eyes in a population aged 75 and more
L. Agbessi, C. Schweitzer, F. Malet, M. Le-Goff, M.-N. Delyfer, M.-B. Rougier, J.-F. Korobelnik, J.-F. Dartigues, C. Delcourt, J. Colin (*France*)
- PI.16 Outcomes of glaucoma referrals from a diabetic eye screening Program
A. Kadyan, S. Yadav (*United Kingdom*)
- PI.17 Age-related morphological change of the anterior chamber in healthy Japanese subjects
K. Tada, Y. Ikeda, K. Mori, M. Ueno, K. Imai, Y. Maruyama, H. Yoshikawa, S. Kinoshita (*Japan*)
- PI.18 Preoperative characteristics of glaucoma surgery patients in Eye Clinic of Medical Academy of Lithuanian University of Health Sciences
L. Kuzmiene, R. Gromnickaite, L. Grybauskiene, R. Paulauskaite (*Lithuania*)

SCREEN 4

- PI.19 There is a trend for the diagnosis of glaucoma to be made at an earlier stage in 2010 compared to 2001 in Oxford, United Kingdom
Y. Riaz, S. De Silva, R. Purbrick, J. Salmon (*United Kingdom*)
- PI.20 Glaucoma in Mozambique: present situation
O. Pujol, A. Puntí, J. Torres, J. Prat, A. Valera (*Spain*)
- PI.21 Correlations of intraocular pressure, corneal thickness and peripapillary retinal thickness determined by OCT in a German working population
A.K. Schuster, J.E. Fischer, U. Vossmerbaeumer (*Germany*)
- PI.22 Family screening of primary open angle and primary angle closure glaucoma patients: the help of family glaucoma screening project
D. Maheshwari, R. Ramakrishnan, M. Abdul Kader (*India*)
- PI.23 Optimising the care pathway for patients suspected by primary care to have glaucoma in terms of effectiveness of referral refinement
G. Ratnarajan, S. Vernon, D. Henson, C. Fenerty, F. Spencer, Y. Wang, A. McNaught, W. Newsom, L. Collins, D. Garway Heath, R. Bourne (*United Kingdom*)
- PI.24 Glaucoma Optometrist Gwent Service (GOGS). Experiences of a group of hospital based glaucoma accredited optometrists to refine glaucoma referrals
S. Ch'ng, D. O'Duffy, A. Feyi-Waboso (*United Kingdom*)

SCREEN 5

- PI.25 Optometric referrals of glaucoma suspects in the United Kingdom: do the National Guidelines have an impact?
T.Q. Kwong, R.X. Lim, O. Kamel, S. Goyal (*United Kingdom*)
- PI.26 Screening open angle glaucoma in type diabetes
L. Figueiredo, D. Meira, A.C. Braga, J. Sequeira, L. Agrelos (*Portugal*)



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EPIDEMIOLOGY, HEALTH ECONOMICS, QUALITY OF LIFE

SCREEN 5 (cont.)

- PI.27 Glaucoma in Portugal. The first economic evaluation
A. Miguel, L. Azevedo, F. Henriques, N. Lopes, R. Andr s, F. Rito, J. Silva (*Portugal*)
- PI.28 The cost effectiveness and duration of effectiveness of SLT as primary and secondary therapy relative to medications in the treatment of primary open angle glaucoma
A. Porta, E. Golez, T. Shazly, F. Ferentini, M. Latina (*USA*)
- PI.29 Service evaluation of a hospital-based triage initiative for new glaucoma referrals
A.M. Gruener, M.F.P. Griffiths (*United Kingdom*)
- PI.30 Visual field defects, type A personality, anxiety and coping styles in patients with primary open angle glaucoma
R. Morreale Bubella, D. Morreale Bubella, L. Ferraro, R. Rizzo, D. La Barbera, S. Cillino (*Italy*)

SCREEN 6

- PI.31 Ophthalmologists' quality of life
M. Iester, C.E. Traverso, R.A. Hitchings, A. Kotecha (*Italy, United Kingdom*)
- PI.32 Lifetime risk for blindness in eyes with open-angle glaucoma
D. Peters, B. Bengtsson, A. Heijl (*Sweden*)
- PI.33 Quality of life in glaucoma surgery - Canaloplasty versus trabeculectomy
J.P. Salgado, J. Sauer, N. K rber, F.J. Grehn, T. Klink (*Germany*)
- PI.34 Evaluation of preoperative anxiety in patients requiring glaucoma filtration surgery
S. Lema tre, E. Blumen-Ohana, J. Akesbi, O. Laplace, J.P. Nordmann (*France*)
- PI.35 A clinical method to assess the effect of visual loss on the ability to perform daily living activities in glaucoma patients
H. Wei, G.L. Spaeth (*China, USA*)
- PI.36 Comparison of quality of life in different degrees of glaucoma patients and normal subjects
O. Pujol, A. Anton, K. Sotelo, M. Ferrer (*Spain*)

SCREEN 7

- PI.37 Quality of life and primary open angle glaucoma
W. Ammari, R. Messaoud, S. Jenzri, R. Attia, M. Oueld Saleck, N. Lahmer, S. Zina, S. Attia, M. Khairallah (*Tunisia*)

BASIC SCIENCE, GENETICS, NEUROPROTECTION, BLOOD FLOW

SCREEN 7

- P2.1 The factors that affect retinal nerve fiber layer distribution
H.J. Chung (*Korea*)
- P2.2 The scar formation mechanisms in conjunctiva after experimental glaucoma implant surgery may differ from those after filtering surgery
Y. Kiuchi, M. Shibasaki, K. Jia, J. Takenaka, T. Chikama (*Japan*)



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BASIC SCIENCE, GENETICS, NEUROPROTECTION, BLOOD FLOW

SCREEN 7 (cont.)

- P2.3 Are biomechanical properties of the sclera and eye hydrodynamics related? An experimental study
E. Iomdina, O. Kiseleva, L. Nazarenko, N. Ignatieva (*Russia*)
- P2.4 Evaluation of human Tenon's fibroblast and endothelium cell responses against single and combined use of current antifibrotics: in vitro study
K.N. Engin, B. Yemisci, S. Erdem Kuruca, G. Özcan Arican, E. Gürel, K. Akgün Dar, U. Serbes, S. Karadenizli, M. Taskapili (*Turkey*)
- P2.5 Pro ANP (atrial natriuretic peptide) concentration differences in aqueous humor and plasma in open-angle glaucoma (OAG) patients compare with cataract patients (CP)
K. Baumanė, G. Laganovska, R. Ranka (*Latvia*)

SCREEN 8

- P2.6 Change in measured intraocular pressure before and after intracameral air injection in an in vitro porcine eye model
G. Jóhannesson, P. Hallberg, C. Lindén, A. Behndig (*Sweden*)
- P2.7 Chemokine receptor as a new therapeutic target for ocular hypertension and related retinal degeneration in a rat model of glaucoma
A. Denoyer, D. Godefroy, J. Frugier, F. Baudouin, A. Labbé, W. Rostène, C. Baudouin (*France*)
- P2.8 Lipid peroxidation in aqueous humor obtained from primary open angle glaucoma patients and pseudoexfoliative glaucoma patients
H. Yoshikawa, Y. Ikeda, K. Mori, M. Ueno, Y. Maruyama, S. Kinoshita (*Japan*)
- P2.10 Biological drainage - Xenoplast in glaucoma surgery (experimental and 10-years of clinical follow-up)
S. Anisimova, S. Anisimov, E. Larionov (*Russia*)
- P2.11 Glaucoma and alpha lipoic acid in diabetic retinopathy
S. Pavljašević (*Bosnia and Herzegovina*)

SCREEN 9

- P2.13 Histopathology of the aqueous outflow pathways in primary open-angle glaucoma (clinical case)
D. Paulaviciute-Baikstiene, N. Pauziene, D.H. Pauza, I. Januleviciene (*Lithuania*)
- P2.14 Evaluation of LOXLI polymorphism in pseudoexfoliation syndrome in the Korean population
D.-Y. Park, C. Kee (*Korea*)
- P2.15 Last results of the Spanish Multicenter Genetic Glaucoma Group
E. Milla, S. Duch, M. Carballo, M.J. Gamundi, Spanish Multicenter Genetic Glaucoma Group EMEIGG (*Spain*)
- P2.16 Association between glaucoma heritability and genetic variants associated with normal tension glaucoma
F. Mabuchi, Y. Sakurada, K. Kashiwagi, Z. Yamagata, H. Iijima, S. Tsukahara (*Japan*)
- P2.17 Morphological changes in the mitochondria of cells of trabecular zone in patients with primary open-angle glaucoma
I. Gazizova, V. Alekseev (*Russia*)



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BASIC SCIENCE, GENETICS, NEUROPROTECTION, BLOOD FLOW

SCREEN 10

- P2.18 Association of risk alleles of glaucoma marker SNPs with morphological characters of the optic disc
Y. Ikeda, K. Mori, M. Ueno, K. Imai, M. Nakano, M. Fuwa, K. Yoshii, Y. Tokuda, T. Yagi, K. Tashiro, S. Kinoshita (*Japan*)
- P2.19 Polymorphism of endothelial nitric oxide synthase Glu298Asp in patients with normal tension glaucoma and primary open angle glaucoma
E. Kosior-Jarecka, U. Łukasik, D. Wróbel-Dudzinska, T. Zarnowski (*Poland*)
- P2.20 Effect of gross saponins from tribulus terrestris L (GSTT) on the concentration of glutamic acid in the retinal in rabbits with chronic high intraocular pressure (IOP)
L. Huang, P. Zeng, N. Li (*China*)
- P2.21 Intercellular interactions in neurites outgrowth of retinal ganglion cells
S. Hong, Y. Iizuka, C.Y. Kim, G.J. Seong (*Seoul*)
- P2.22 Correlation of glaucomatous neurodegeneration between eye and visual pathways: structural and functional evaluation with 1,5T MRI
K.N. Engin, B. Yemisci, S. Bayramoglu, N. Turan Güner, O. Özyurt, E. Karahan (*Turkey*)
- P2.23 Effect of combined neuroprotective therapy of glaucomatous optic neuropathy on structural characteristics of visual analyser in patients with primary open-angle glaucoma
A. Dzhumova, L. Marchenko, M. Dzhumova (*Belarus*)
- P2.24 Surgical neuroprotection by changing the biomechanical properties of sclera in the perineural area in glaucoma
S. Anisimova, S. Anisimov, N. Tchigovanina, L. Arutyunyan (*Russia*)

SCREEN 11

- P2.25 An association of forskolin and rutin improves the pERG signal of POAG patients
D. Sisto, N. Lavermicocca, D. Errico (*Italy*)
- P2.26 Neuroprotective effect of riluzole and resveratrol administration in experimental glaucoma model
D. Pirhan, N. Yüksel, E. Emre, A. Cengiz, Y. Çağlar, I. Özöver, D.K. Yildiz (*Turkey*)
- P2.27 Neuroprotective effects of intravitreally transplanted adipose tissue- and bone marrow-derived mesenchymal stem cells in an experimental glaucoma model
E. Emre, N. Yüksel, D. Pirhan, Y. Çağlar, C. Subasi, G. Duruksu, K. Yildiz, G. Erman, E. Karaöz (*Turkey*)
- P2.28 The loss of retinal nerve fiber layer (RNFL) thickness in glaucoma patients treated with brimonidine
A. Smedowski, A. Fitowska, J. Lewin-Kowalik, E. Wylegala (*Poland*)
- P2.30 Antiaging therapy, new valuable paradigm on ocular blood flow enhancement in glaucoma
E.A. Skoufis, I. Segos, G. Neos (*Greece*)

SCREEN 12

- P2.32 Ocular pulse amplitude in patients with graves orbitopathy and healthy subjects
B. Marija, M. Knezevic, P. Hentova-Sencanic, V. Markovic, I. Marjanovic, V. Babic (*Serbia*)
- P2.33 Hemodynamic parameters in the retrobulbar arteries after decreasing of the elevated intraocular pressure in POAG patients
I. Marjanovic, D. Kontic, P. Hentova-Sencanic, V. Markovic, M. Bozic, V. Babic (*Serbia*)



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BASIC SCIENCE, GENETICS, NEUROPROTECTION, BLOOD FLOW

SCREEN 12 (cont.)

- P2.34 Blood flow parameters in retrobulbar and internal carotid artery in patients with glaucoma and pseudoexfoliation syndrome
M. Zielinski, M. Misiuk-Hojlo, A. Turno-Krecicka, K. Kiszka (Poland)
- P2.35 Retrobulbar adipose tissue and intraocular pressure in obesity
O. Stojanov, E. Stokic, O. Sveljo, N. Naumovic (Serbia)
- P2.36 ERG responses and blood flow correlations in glaucoma
N. Kuryшева, N. Hodak, T. Kiseleva, E. Irtegovа (Russia)
- P2.37 Lack of spontaneous venous pulsation as a possible risk factor in normal tension glaucoma
L. Abegão Pinto, E. Vandewalle, I. Stalmans (Portugal, Belgium)

SCREEN 13

- P2.38 Evaluation of optic nerve parameters according to intraocular blood flow in POAG
N. Zavgorodnya, O. Bezugla, M. Bezugly (Ukraine)
- P2.39 Ocular pulse amplitude measured by Pascal dynamic contour tonometry in multiple sclerosis patients
B. Terelak-Borys, I. Jankowska-Lech, J. Wasyluk, A. Piekarniak-Wozniak, I. Grabska-Liberek, W. Palasik (Poland)
- P2.40 Efficiency of neuroretinoprotection in the low-pressure glaucoma patients with arterial hypertension
Z. Veselovskaya, N. Veselovskaya, I. Jerebko (Ukraine)
- P2.41 Ocular perfusion pressure and blood flow fluctuations during dorzolamide versus timolol add-on therapy in prostaglandin analogue treated glaucoma subjects
L. Siaudvytyte, R. Barsauskaite, V. Diliene, D. Paulaviciute-Baikstiene, I. Januleviciene, B. Siesky, A. Harris (Lithuania, USA)
- P2.42 The effect of a penetration enhancer in nebulized mist and liquid drop forms on retrobulbar blood flow in healthy volunteers
I. Januleviciene, L. Siaudvytyte, R. Barsauskaite, B. Siesky, A. Harris (Lithuania, USA)
- P2.43 Correlation between ocular pulse amplitude (OPA) and systemic blood pressure parameters in wide ocular pulse pressure (WOPP) NTG patients
S.J. Ha (Korea)

SCREEN 14

- P2.44 Oximetry in glaucoma: correlation with structural and functional damage
E. Vandewalle, L. Abegão Pinto, Ó. Birna Olafsdottir, P. Stalmans, J. Van Calster, T. Zeyen, E. Stefánsson, I. Stalmans (Belgium, Portugal, Iceland)
- P2.45 Risk factors for defective optic nerve head blood flow in open angle glaucoma and ocular hypertension
A. Hafez, R. Ajlan (Canada)
- P2.46 Nailfold capillaroscopic examination and endothelial nitric oxide synthase (eNOS) Glu298Asp polymorphism (G894T) in normal tension glaucoma patients. A pilot study
U. Łukasik, J. Bartosinska, E. Kosior-Jarecka, T. Zarnowski, G. Chodorowska (Poland)



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GLAUCOMA PHENOTYPES

SCREEN 14 (cont.)

- P3.1 Effect of latanoprost on central corneal thickness in unilateral normal-tension glaucoma
J.Y. You, B.J. Cho (Korea)
- P3.2 Evaluation of the visual function in obstructive sleep apnea syndrome patients and normal-tension glaucoma by means of the multifocal visual evoked potentials
C. Pérez-Rico, E. Gutiérrez-Díaz, A. Moreno-Salgueiro, M.J. de Atauri, E. Mencía-Gutiérrez, R. Blanco (Spain)
- P3.3 ORA waveform analysis of biomechanical properties of the cornea in normal tension glaucoma
A. Grise-Dulac, A. Saad, D. Gatinel (France)
- P3.4 The effect of lateral decubitus position on intraocular pressure in patients with untreated normal-tension glaucoma
C. Yoo, J.Y. Lee, Y.Y. Kim (Korea)

SCREEN 15

- P3.5 Nail bed hemorrhage: a clinical marker of optic disc hemorrhage in patients with glaucoma
C.K. Park, H.-Y. Park (Korea)
- P3.6 Retrobulbar hemodynamics and structure of the optic nerve and retina in normal tension glaucoma
J. Wierzbowska, K. Gwiazda, K. Wojtas, J. Sierdzinski (Poland)
- P3.7 Normal tension glaucoma: long-term results of medical and laser treatment instead of intended trabeculectomy
D. Bach-Holm, P.K. Jensen, S.V. Kessing (Denmark)
- P3.8 Diurnal ocular perfusion pressure in normal tension glaucoma
T. Hara (Japan)
- P3.10 Secondary angle-closure glaucoma associated with pseudophakic pupillary block due to pre-existing laser iridotomy occlusion after cataract surgery
J.W. Park (Korea)
- P3.11 Anatomic topographic features structures of iridocilliary zone in patients with primary angle-closure glaucoma in cases of progressive cataract
U. Fayzieva, E. Egorova (Uzbekistan, Russia)
- P3.12 Management of long-lasting IOP elevation due to the prolonged angle closure. What can we do?
M. Fichtl, E. Růžicková, L. Kondrová (Czech Republic)

SCREEN 16

- P3.13 Anterior segment effects of laser peripheral iridoplasty in acute & non-acute primary angle closure eyes
M.C. Aquino, C. Sng, X. Li, S.C. Loon, P. Chew (Singapore)
- P3.14 Acute angle closure glaucoma induced by duloxetine
A.d.L. Duarte, S. Estrela Silva, A. Melo, J. Silva Cotta, F. Falcão Reis (Portugal)
- P3.15 Demographic evolution of acute primary angle closure between 2001-2003 and 2008- 2010: impact of the modern cataract surgery
G. Boulanger, I. Orignac, M. Weber (France)
- P3.16 Incidence of acute primary angle-closure in a Danish population
J.M. Mehlsen, T. Bek, S. Krag (Denmark)



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GLAUCOMA PHENOTYPES

SCREEN 16 (cont.)

- P3.17 Acute angle closure in a pseudophakic eye: a diagnostic challenge
A. Suryono, B. Tan, M.C. Aquino, P. Chew (*Singapore*)
- P3.18 The role of phacoemulsification in the management of medically uncontrolled primary chronic angle closure glaucoma
M. Abu-Bakra, A. Shaikh (*United Kingdom*)
- P3.19 Prognostic factors for poor visual outcome in acute primary angle closure
W. Andreatta, I. Elaroud, M. Nessim (*United Kingdom*)

SCREEN 17

- P3.20 Secondary glaucoma with ciliary body tumor in a pseudophakic eye. Malignant transformation of a ciliary body melanocytoma? Report of a case
S.C. Lee, S.J. Lee (*Korea*)
- P3.21 Severe ocular hypertension secondary to steroid treatment in a child with nephrotic syndrome
P. Brito, S. Silva, J. Cotta, F. Falcão-Reis (*Portugal*)
- P3.22 Correlation between silicone oil in the anterior chamber and intraocular pressure in vitrectomized eyes
M. Zoric Geber, G. Bencic, Z. Vatavuk, R. Ivekovic (*Croatia*)
- P3.23 Surgical treatment of patients ill with secondary phacomorphous glaucoma combined with organic block of anterior chamber angle
A. Postupaev, A. Egorova, N. Postupaeva (*Russia*)
- P3.24 The graduated iridodialysis with the plasty of iris in the surgery of secondary phacomorphous glaucoma
A. Egorova, A. Postupaev, N. Postupaeva (*Russia*)
- P3.25 Argon laser peripheral iridoplasty (ALPI) versus systemic intraocular pressure lowering medications as the immediate management for phacomorphic angle closure
J.W.Y. Lee, J.S.M. Lai, D.W.F. Yick, C.Y.F. Yuen (*Hong Kong*)
- P3.26 Outcomes of glaucoma surgery in eyes with iridocorneal endothelial syndrome following keratoplasty
D. Quek, S.B. Han, D. Tan, J. Mehta, T. Wong (*Singapore, Korea*)

SCREEN 18

- P3.27 Intraocular pressure elevation after Descemet's stripping endothelial keratoplasty in eyes with glaucoma
N. Ozeki, K. Yuki, D. Shiba, S. Shimmura, M. Dogur, K. Tsubota (*Japan*)
- P3.28 Anti-VEGF in preoperative preparation of the patients with neovascular glaucoma
O. Plevachuk, T. Smal (*Ukraine*)
- P3.29 Glaucoma in patients with uveitis
M. Terahi, Z. Merad, M. Tiar (*Algeria*)
- P3.30 Ocular hypertension and glaucoma in patient with viral anterior uveitis from Tunisia
R. Kahloun, S. Attia, J. Sayadi, S. Khochtali, S. Zaouali, S. Ben Yahia, M. Khairallah (*Tunisia*)



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GLAUCOMA PHENOTYPES

SCREEN 18 (cont.)

- P3.31 Bilateral angle-closure glaucoma secondary to uveal effusion associated with human Herpes virus infection
R. Hage, C. Schweitzer, M.-O. Vareil, O. Chatoux, C. Andrébe, J. Colin (France)
- P3.32 Angle closure after Boston keratoprosthesis
M. Banitt, J. Panarelli, A. Ko, J. Garcia, P. Sidoti (USA)
- P3.34 Congenital ectropion uveae and glaucoma
V. Markovic, P. Hentova-Sencanic, M. Bozic, I. Marjanovic, V. Babic (Serbia)

SCREEN 19

- P3.35 Newly diagnosed cases with Axenfeld-Rieger syndrome in a family
S.J. Kim, G.N. Kim, S.W. Seo, J.W. Lee (Korea)
- P3.36 Relation of anterior segment and optic disk morphology in congenital and childhood glaucomas
I. Oberacher-Velten, A. Jünemann, R. Greslechner, C. Klotz, T. Wortmann, D. Spiegel, H. Helbig (Germany)
- P3.37 Long-term follow up of patients with primary congenital glaucoma: demographic and clinical characteristics
H. Amini, Y. Eslami, R. Zarei, G. Fakhraei, S. Moghimi, M. Mohammadi, A. Akrami, N. Zandvakil, V. Samarei, N. Amini (Iran)
- P3.38 Management of childhood glaucoma associated with Sturge-Weber syndrome
R. Greslechner, H. Helbig, I. Oberacher-Velten (Germany)
- P3.39 Surgical management of Peters' anomaly using Ahmed glaucoma valve and penetrating keratoplasty
M.A. Afrit, Y. Falfoul, H. Mazlout, M. Hamdouni, A. Kraiem (Tunisia)
- P3.40 Surgical outcome of trabeculotomy in aniridic glaucoma
D. Shiba, S. Hosoda, N. Ozeki, K. Yuki, K. Tsubota (Japan)
- P3.41 Reversibility of early optic disc cupping in congenital glaucomas after trabeculotomy within the first year of life
J. Thygesen, H.C. Fledelius, H. Jensen, S.V. Kessing (Denmark)

SCREEN 20

- P3.42 Outcomes of trabeculotomy for primary congenital glaucoma in a Tunisian population
I. Malek, S. Attia, I. Khairallah, M. Baba, L. Nacef, H. Bouguila, S. Ayed (Tunisia)
- P3.43 Laser technologies in treatment of pseudoexfoliative glaucoma (PEG)
T. Sokolovskaya, D. Magaramov, Y. Kochetkova, E. Usoltseva (Russia)
- P3.44 Evaluation of serum vitamin D levels in exfoliation syndrome
M.C. Mocan, S. Kocabeyoglu, M. Irkeç, A. Pinar, B. Bozkurt, M. Orhan (Turkey)
- P3.45 Assessments of anterior chamber aqueous flare in patients with pseudoexfoliation syndrome
S. Attia, I. Malek, I. Ksaa, R. Kahloun, W. Ammari, B. Jelliti, R. Messaoud, M. Khairallah (Tunisia)
- P3.48 Improving visual prognosis of glaucoma patients during the past 30 years based on the data of the Finnish Register of Visual Impairment
H. Uusitalo, A. Siitonen, M. Ojamo (Finland)



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IMAGING, PSYCHOPHYSICS, INTRAOCULAR PRESSURE, BIOMECHANICS

SCREEN 1

- P4.1 A comparison of retinal nerve fiber layer thickness to visual field sensitivity in patients with glaucoma
V. Andreic, N. Babic, A. Miljkovic (*Serbia*)
- P4.2 Relationship among photopic negative response, retinal nerve fiber layer thickness, and visual field between normal and POAG eyes
L.N. Huang, X.L. Shen, F. Ning (*China*)
- P4.3 Quantitative analysis of retinal nerve fiber layer defects imaged by red-free photography and spectral domain optical coherence tomography
K.B. Uhm, J.W. Shin (*Korea*)
- P4.4 The relationship between retinal nerve fibre layer thickness and peak retinal nerve fibre layer position in Japanese normal eyes
T. Yamashita, R. Asaoka, Y. Kii, M. Tanaka, K. Nakao, T. Sakamoto (*Japan*)
- P4.5 The clinical validity of macular ganglion cell complex by spectrum-domain OCT in advanced glaucoma
S.-W. Park, J.-W. Park (*Korea*)
- P4.6 Quantitative analysis of retinal nerve fiber layer thickness in healthy Korean by spectralis SD-OCT
L. Seung Hyen, B.J. Cho (*Korea*)

SCREEN 2

- P4.7 Comparison of three-dimensional and cirrus spectral domain optical coherence tomography to detect localized retinal nerve fiber layer defects
S.J. Ahn, D.M. Kim, K.H. Park, T.W. Kim, S.H. Kim, K.E. Kim (*Korea*)
- P4.8 Relationship of CCT and RNFL characteristics in primary open-angle glaucoma
A. Kuroyedov, V. Ogorodnikova, V. Gorodnichiy, A. Alexandrov, S. Diordichuk, N. Solnov, Z. Kushim, K. Kuznetsov (*Russia*)
- P4.9 Clinical characteristics of glaucomatous eyes with progression as determined by spectral domain optical coherence tomography
J.H. Na, J.W. Cho, Y.H. Sohn, H.K. Kim, K.R. Sung (*Korea*)
- P4.10 Spectral domain OCT imaging to diagnose and monitor hypotony maculopathy
M. Raja, S. Boukavala, S. Mukherjee (*United Kingdom*)
- P4.12 Comparing characteristics of the optic nerve head assessed with HRT II between children and adults
V. Babic, P. Hentova-Sencanic, V. Markovic, V. Krstic, M. Bozic, I. Marjanovic, J. Djurovic (*Serbia*)
- P4.13 Assessing the learning curve of an inexperienced observer in plotting optic disc contours: a Heidelberg retinal tomography study
V. Koh, M. Lim, S.C. Loon, T.Y. Wong, T. Aung (*Singapore*)



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IMAGING, PSYCHOPHYSICS, INTRAOCULAR PRESSURE, BIOMECHANICS

SCREEN 3

- P4.14 Determinants of quantitative optic nerve measurements using Heidelberg retinal tomography in a population-based sample of non-glaucomatous Asian subjects
S.C. Loon, V. Koh, M. Lim, T.Y. Wong, T. Aung (*Singapore*)
- P4.15 Retinal nerve fiber layer and macular measurement in glaucoma patients; an optical coherence tomography study
S. Popovic Suic, S. Jandrokovic, B. Cerovski, M. Barisic Kutija, M. Ekert (*Croatia*)
- P4.16 Structural functional relationship between computerized perimetry and imaging technology - Optical coherence tomography and scanning laser ophthalmoscopy
Ž. Jojic Savicevic, K. Savic, V. Suvajac (*Serbia*)
- P4.17 Comparative study of new imaging technologies for the diagnosis of glaucoma (GATE): design and conduct of a multicentre diagnostic study
K. Banister, J. Cook, C. Ramsay, J. Burr, R. Hernandez, K. McCormack, R. Bourne, M. Batterbury, D. Garway Heath, A. Azuara Blanco (*United Kingdom*)
- P4.18 Evaluation of choroidal thickness changes accompanied by acute intraocular pressure drops in patients with glaucoma surgery using enhanced depth imaging optical coherence tomography
K. Mori, Y. Ishida, H. Yoshikawa, K. Tada, Y. Maruyama, H. Koizumi, Y. Ikeda, M. Ueno, N. Koizumi, S. Kinoshita (*Japan*)
- P4.19 Comparison of retinal nerve fiber layer measured by time domain and spectral domain optical coherence tomography in glaucoma patients and healthy individuals
D. Chiselita, A. Cantemir, M. Andronache (*Romania*)

SCREEN 4

- P4.20 Choroidal thickness in glaucoma patients and glaucoma suspects measured by spectral-domain optical coherence tomography
A. Bron, A. Francoz, F. Nicot, S. Aho, C. Creuzot-Garcher (*France*)
- P4.21 Defects in macular-retinal layer analysis of glaucoma patients compared to normative database
S. Holzer, I. Pereira, H. Resch, B. Kiss, U. Schmidt-Erfurth, C. Vass (*Austria*)
- P4.22 Reproducibility of optic nerve head parameters measured by spectral-domain optical coherence tomography
P. Calvo, N. Güerri, L. Gil-Arribas, A. Ferreras, M. Ara, A. Valverde (*Spain*)
- P4.23 The effect of cataract on retinal nerve fiber layer thickness measurements taken with spectral-domain optical coherence tomography
G. Arikan, R. Yildirim, D. Cam, U. Gunenc (*Turkey*)
- P4.24 The effect of pupillary dilation on retinal nerve fiber layer thickness measurements taken with spectral-domain optical coherence tomography
R. Yildirim, G. Arikan, D. Cam, U. Gunenc (*Turkey*)
- P4.25 Long-term follow-up with imaging in open angle glaucoma
C. Sandberg Melin, E. Nuija, A. Alm (*Sweden*)

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SCREEN 5

- P4.26 Optic nerve head analysis via optical coherence tomography, at healthy patient groups with macrodiscs vs normodiscs
B. Satana, C. Altan, F.E. Aksoy, B. Basarir, Y. Kucuksumer, A. Demirok (Turkey)
- P4.27 OCT-GPA versus visual field GPA - A prospective comparison of structural and functional progression analysis in glaucoma
D. Chiselita, C. Danieleescu (Romania)
- P4.28 Appraisal of HD-OCT guided progression analysis parameters detecting glaucomatous progression
S. Banegas-Argota, A. Antón-Lopez, A. Morilla-Grasa, M. Bogado, J. Moreno-Montañes (Spain)
- P4.29 Relationship between standard automated perimetry and spectral-domain optical coherence tomography
B. Monsalve, A. Ferreras, K. Pachkoria, P. Calvo, J.L. Urcelay, L.E. Pablo (Spain)
- P4.30 Combination of optic disc rim area and retinal nerve fiber layer thickness for early glaucoma detection by using spectral domain OCT
M.H. Suh, K.H. Park, D.M. Kim, S.H. Kim (Korea)
- P4.31 Comparison of peripapillary retinal thickness in normal eyes, eyes with ocular hypertension and glaucomatous eyes using spectral domain OCT
U. Vossmerbaeumer, A.K. Schuster, J.E. Fischer (Germany)

SCREEN 6

- P4.32 Correlations of refraction and peripapillary retinal thickness determined by spectral domain OCT
A.K. Schuster, J.E. Fischer, U. Vossmerbaeumer (Germany)
- P4.33 The use of GDx staging system in the glaucoma management system software
D. Paoli, P. Brusini, C.E. Traverso (Italy)
- P4.34 Reproducibility in central macular thickness and peripapillary retinal nerve fiber layer (RNFL) thickness measurements with Spectralis OCT and Cirrus HD-OCT
R. Martinez Chico, J.M. Martinez De La Casa, P. Toro Utrera, C.D. Mendez, F. Saenz-Frances San Baldomero, M. Sanchez Pulgarin, J. Garcia Feijoo (Spain)
- P4.35 Differential inner macular thinning in glaucoma with hemifield visual loss: Fourier-domain optical coherence tomography study
E. Mesa-Toledo, J.C. Mesa-Gutierrez (Spain)
- P4.36 Correlation between the ganglion cell complex and structural measures of the optic disc and retinal nerve fiber layer in glaucoma patients and suspects
E. Bresciani-Battilana, N. Kasahara, I.C. Teixeira, D. Queiroz, C. Caixeta-Umbelino, M. Paolera (Brazil)
- P4.37 Correlation between the ganglion cell complex and functional measures in glaucoma patients and suspects
I.C. Teixeira, N. Kasahara, E. Bresciani-Battilana, D. Queiroz, C. Caixeta-Umbelino, M. Paolera (Brazil)



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SCREEN 7

- P4.38 Superior segmental optic hypoplasia (SSOH)-like changes of the optic disc induced by transient ocular hypertension
M. Ueno, M. Sasaki, K. Maruyama, Y. Ikeda, K. Mori, S. Kinoshita (*Japan*)
- P4.39 Diagnostic ability of optic nerve head parameters for glaucoma
L. Gil-Arribas, A. Ferreras, B. Ferrandez, P. Calvo, N. Güerri (*Spain*)
- P4.40 Correlation of disc and cup area between glaucoma patients and their offsprings measured with Heidelberg retina tomography
M.A. Leal, J. Guzman, P. Beneyto, M.A. Teus, R. Jimenez (*Spain*)
- P4.41 Influence of optic disc size in the evaluation of the retinal nerve fiber layer and optic nerve head
N. Guerri, L. Gil, A. Ferreras, B. Ferrández, P. Calvo, J.M. Larrosa, V. Polo, L.E. Pablo (*Spain*)
- P4.42 Scanning laser polarimetry and correlation with automated perimetry in glaucoma diagnosis
G. Milano, A. Chandra, V. Vercellin, S. Lanteri, S. Lombardo, M. Raimondi, L. Bossolesi (*Italy*)
- P4.43 Anatomical and functional glaucoma evaluation 6 and 12 months after glaucoma filtration surgery
T. Gracner, D. Pahor (*Slovenia*)

SCREEN 8

- P4.44 Implications of the ocular pulse amplitude in ocular hypertension and different types of glaucoma with respect to morphological and functional parameters
G. Milioti, U. Loew, S. Moussa, A. Langenbacher, B. Seitz (*Germany*)
- P4.46 Correlation between glaucoma stage and structural parameters of optic nerve head as determined by SOCT Copernicus (OPTOPOL Technology S.A.) optical coherence tomography
S. Jandrovic, S. Popovic Suic, M. Barišic, I. Škegro, B. Cerovski, M. Ekert (*Croatia*)
- P4.47 Early detection of open-angle glaucoma progression: structure vs function
I. Coman, A. Popa Cherecheanu, A.M. Dascalu, D. Stana, C. Alexandrescu, A. Panca, R. Pascu, R. Ciuluvica, D. Serban, L.M. Voinea (*Romania*)
- P4.48 Peripapillary atrophy and displacement of the lamina cribrosa in open angle glaucoma and ocular hypertension
A. Hafez, A. Ann (*Canada*)
- P4.49 Macular and peripapillary nerve fiber layer thickness in eyes with macrodisc
B. Basarir, C. Altan, B. Satana, F.E. Aksoy, Y. Kucuksumer, A. Demirok (*Turkey*)

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- P4.50 Accuracy of optic nerve head parameters to detect perimetric glaucoma
A. Ferreras, B. Ferrandez, P. Calvo, N. Güerri, L. Gil-Arribas, M. Pilar Bambo, B. Monsalve, L.E. Pablo (*Spain*)
- P4.51 Iuxtapapillary microperimetry in ocular hypertension
G. Macri, M. Savastano (*Italy*)
- P4.52 Comparison of fixation target stability for RareBit and Humphrey Visual Field Tests
R. Chang, S. Lin, I. Lai, S. Dutta, K. Singh (*USA*)
- P4.53 Risk factors and rate of progression diagnosed with VFI in patients with focal glaucoma
J. Gros, M. Teus, J. Paz, G. Bolivar, M. Castejón, A. Moreno (*Spain*)
- P4.54 Validation of methods to assess glaucomatous visual field progression
P. Ernest, J. Schouten, H. Beckers, F. Hendrikse, M. Prins, C. Webers (*The Netherlands*)
- P4.55 Importance of local perimetric changes for glaucomatous process severity evaluation
N. Zavgorodnya, O. Bezugla (*Ukraine*)

SCREEN 10

- P4.56 Comparison of retinal nerve fiber layer defect and visual field characteristics between a central visual field defect group and a peripheral visual field defect group in normal-tension glaucoma patients
J.L. Kim, C.W. Kee (*Korea*)
- P4.57 Microperimetry in early diagnostics of glaucoma
N. Gorbunova, A. Pavlova, J. Zotova, O. Shlenskaya (*Russia*)
- P4.58 Visual field assessment for glaucoma. A comparison between a trained artificial neural network and clinicians
S. Andersson, A. Heijl, D. Bizios, B. Bengtsson (*Sweden*)
- P4.59 Using unsupervised machine learning to identify patterns of glaucomatous visual field defects in Frequency Doubling Technology (FDT) perimetry data
C. Bowd, M. Balasubramanian, M. Goldbaum, I. Lee, L. Zangwill, C. Girkin, J. Liebmann, P. Sample, R. Weinreb (*USA*)
- P4.60 Topographic correlation between multifocal pattern electroretinogram and achromatic visual field in glaucomatous eyes
M.L.S. Jordão, V.F. Costa, K. Messias, A. Messias, J.S. Paula (*Brazil*)
- P4.61 Perimetric and retinal nerve fiber layer findings in patients with Parkinson's disease
A. Dastiridou, A. Katsanos, E. Dardiotis, S. Veliki, G. Patramani, F. Zacharaki, S. Ralli, G. Hadjigeorgiou, E. Tsironi (*Greece*)



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- P4.62 Progression of patterns using non-negative matrix factorization and iso-severity clustering of glaucoma patterns improves detection of glaucoma progression
M. Goldbaum, C. Bowd, I. Lee, M. Balasubramanian, F. Medeiros, L. Zangwill, J. Liebmann, C. Girkin, P. Sample, R. Weinreb (USA)
- P4.63 Changes of iridocorneal angle after Nd:YAG laser peripheral iridotomy
C. Pisano, M. Savastano (Italy)
- P4.64 Anterior segment OCT in glaucoma filtering blebs management
M. Savastano (Italy)
- P4.65 Comparison of the anterior chamber angle measurements using Artemis and ultrasound biomicroscopy
H. Alfarhan, R. Al-Mutairi (Saudi Arabia)
- P4.66 Anterior segment optical coherence tomography in management of Descemet's membrane detachment after deep sclerectomy
G. Rebolleda, F.J. Muñoz-Negrete, P. Casas, R. Fernandez Buenaga (Spain)
- P4.67 Capacity of anterior segment morphometry to predict primary open-angle glaucoma
M. Sierra-Rodríguez, F. Saenz-Frances, L. Borrego-Sanz, J.M. Martinez-de-la-Casa, E. Santos-Bueso, J. Garcia-Feijoo (Spain)

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- P4.68 Imaging of trabeculectomy blebs with visante anterior segment optical coherence tomography after digital ocular compression
M.D. Ahn (Korea)
- P4.69 Analysis of bleb morphology after trabeculectomy with MMC 0.02% with anterior segment spectralis domain optical coherence tomography (SD-OCT)
K. Pillunat, O. Furashova, E. Spoerl, L.E. Pillunat (Germany)
- P4.70 Quantitative evaluation of anterior chamber parameters using anterior segment optical coherence tomography in primary angle closure mechanisms
P. Chew, M.C. Aquino, N. Shabana (Singapore)
- P4.71 Peripheral laser iridoplasty opens angle in plateau iris angle closure by thinning the cross sectional iris as imaged by anterior segment spectral domain optic coherence tomography (SD-OCT)
D. Belyea, J. Liu, T. Lamba (USA)
- P4.72 Evaluation of early glaucoma filtering blebs using 3-dimentional anterior-segment optical coherence tomography
A. Narita, J. Seguchi (Japan)
- P4.73 AS-OCT - a non contact tool to select cases for bleb modulation in failing trabeculectomies
U. Yadava, P. Thacker, K. Jai Singh, S. Gupta (India)



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- P4.74 Crisis of angle-closure glaucoma and plateau iris configuration secondary of numerous irido-ciliary cysts
A. Alami, K. Reda, R. Messaoudi, Y. Bennouk, K. Chergui, N. Aigbé, S. Hamichi, H. Moumen, F. el Asri, A. Oubaaz (*Morocco*)
- P4.75 Filtration bleb-associated tear film sign demonstrated by three dimensional anterior segment optical coherence tomography (3D AS-OCT)
S. Kojima, T. Inoue, T. Kawaji, H. Tanihara (*Japan*)
- P4.76 Anterior segment parameter changes using Tomey anterior segment analyzer and its relation to intraocular pressure after uneventful phacoemulsification
K. Nabil, A.H. Abdallah, M.H. Elhabrouk, H.F. Elgoweini (*Egypt*)
- P4.77 Using 3-dimensional anterior segment optical coherence tomography (AS-OCT) to evaluate the effect of argon laser peripheral iridoplasty (ALPI) on the anterior chamber angle in patients remaining in angle closure following YAG laser peripheral iridotomy (PI) for non-acute angle closure. The Investigating Management of Angle Closure and Treatment (IMPACT) study
L. Sanchez Parra, R. Buckley, A. Langenbucher, T. Eppig, S. Pardhan, R. Bourne (*United Kingdom, Germany*)
- P4.78 Objectively documented anterior chamber depth variation as early sign of filtering bleb encapsulation and correlation with intraocular pressure
A. Diagourtas (*Greece*)

SCREEN 14

- P4.80 Correlation between intraocular pressure, central corneal thickness, radius of the corneal curvature, and axial length in a normal population
J. Martinez Garcia, C. Martinez Bello, F. Huste Gerones (*Barcelona*)
- P4.81 Comparing the capacity of two corneal thickness models to detect primary open-angle glaucoma
F. Saenz-Frances, L. Borrego-Sanz, J.M. Martinez-de-la-Casa, E. Gonzalez-Pastor, E. Santos-Bueso, A. Fernandez-Vidal, C. Mendez-Hernandez, J. Garcia-Sanchez, J. Garcia-Feijoo (*Spain*)
- P4.82 Diurnal variability of intraocular pressure in healthy subjects: comparison of Goldmann, Pascal and non-contact tonometry in relation to central corneal thickness
C. Gountis, D. Kourkoutas, N. Klados, P. Xanthopoulou, I. Anestis, N. Karamaounas (*Greece*)
- P4.83 The discrepancy of non-contact tonometer and Goldmann applanation tonometer in the fluid accumulation of corneal epithelium or stroma
J.L. Kim, C.W. Kee (*Korea*)
- P4.84 Corneal biomechanics changes after trabeculectomy, phaco-trabeculectomy, Ahmed glaucoma valve implantation, and phacoemulsification
M. Pakravan, M. Afroozifar, S. Yazdani (*Iran*)
- P4.85 Central corneal thickness in postmenopausal patients with trichomatous dry eye
M. Guzey, S. Karaman (*Turkey*)



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SCREEN 15

- P4.86 A study for the reproducibility and accuracy of tonopen tonometry
X. Chen, F. Fu (*China*)
- P4.87 Analysis of the influence of anterior segment morphometry on Goldmann applanation tonometry and on dynamic contour tonometry
L. Borrego Sanz, F. Saénz-Francés San Baldomero, J.M. Martínez de la Casa, E. González Pastor, E. Santos Bueso, C.D. Méndez Hernández, A. Fernández Vidal, J. García Sánchez, J. Garcia Feijóo (*Spain*)
- P4.88 The differences between intraocular pressure measurements by Icare, Tonopen, ocular response analyzer, Pascal, Airpuff, Goldmann applanation tonometer according to the central corneal thickness
D. Marangoz, M.C. Kohen, M. Altunsoy, B.I. Yalvaç (*Turkey*)
- P4.89 Corneal biomechanical properties of normal tension glaucoma in young patients
K.R. Choi, J.Y. Rhew, J.H. Lee, S.M. Hyung (*Korea*)
- P4.90 Effects of treatment with prostaglandin analogues on corneal hysteresis
G. Bolivar, M. Castejon, J. Paz Moreno-Arrones, J. Gros, C. Gutierrez-Ortiz, Y. Gomez-San Gil, E. Arranz-Marquez, M. Teus (*Spain*)
- P4.91 Evaluation of biomechanical properties of the cornea between different groups of glaucomatous and non-glaucomatous eyes
C. Schweitzer, F. Cabot, A. Mahmoud, C. Roberts, F. Malet, J. Colin (*USA*)

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- P4.92 Corneal hysteresis and its relationship with intraocular pressure in primary open angle glaucoma, low tension glaucoma and ocular hypertension
U. Gunenc, H. Aslankara, G. Arikani (*Turkey*)
- P4.93 Short-term effect of standard automated perimetry testing on the intraocular pressure measurements using rebound tonometer
Y.C. Yoo, C.M. Lee (*Korea*)
- P4.94 Changes in biomechanical properties of the cornea and intraocular pressure following corneal wavefront-guided laser in situ keratomileusis using IntraLase femtosecond laser for flap creation and Schwind ESIRIS excimer laser ablation
E.A. Kim, S.J. Park, T.W. Kim, S.J. Kim, J.W. Lee (*Korea*)
- P4.95 Comparison of the Goldmann-applanation, Schiottz-impression & noncontact tonometers in different glaucoma patients & the effect of central corneal thickness
V. Bhatia, H. Kumar (*India*)
- P4.96 Intraocular pressure (IOP) measuring devices. From the past to the future
F. Meier-Gibbons (*Switzerland*)
- P4.97 Measurement of intraocular pressure in patients undergoing intralase and LASEK using Goldmann applanation tonometry and dynamic contour tonometry
G. Shemesh, U. Soiberman, S. Kurtz (*Israel*)



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IMAGING, PSYCHOPHYSICS, INTRAOCULAR PRESSURE, BIOMECHANICS

SCREEN 17

- P4.98 Corneal biomechanical properties of eyes with large optic disc area
F.E. Aksoy, B. Satana, C. Altan, I. Pasaoglu, E. Bozkurt, A. Demirok (*Turkey*)
- P4.99 Effects of long-term topical prostaglandin therapy on central corneal thickness
Y. Maruyama, K. Mori, H. Yoshikawa, Y. Ikeda, M. Ueno, K. Tada, S. Kinoshita (*Japan*)
- P4.100 Comparison of intraocular pressure measurement using Goldmann, Iopon and iCare tonometers in patients with penetrating keratoplasty
P. Toro Utrera, C. Méndez Hernández, A. Fernández Vidal, R. Martínez Chico, S. Pérez Trigo, C. Fernández, F. Sáenz-Francés, D. Díaz Valle, J.M. Martínez de la Casa, J.M. Benítez del Castillo, J. García Feijoo (*Spain*)
- P4.101 Dynamic contour tonometry (Pascal) compared with Goldmann applanation tonometry (GAT) in intraocular pressure measurement in patients with penetrating keratoplasty
C. Méndez Hernández, P. Toro, S. Pérez Trigo, F. Sáenz Francés, J.M. Martínez de la Casa, E. Santos Bueso, A. Fernández Vidal, D. Díaz Valle, J.M. Benítez del Castillo, J. García Feijoo (*Spain*)
- P4.102 Corneal hysteresis (CH): a breakthrough in the study of corneal biomechanics
V. Bhatia, A. Sharma (*India*)
- P4.103 Glistening in glaucomatous eyes: a retrospective analyse
C. Olivier, C. Schweitzer, O. Isabelle, J. Colin (*France*)

SCREEN 18

- P4.104 Tears osmolarity in healthy controls and glaucoma patients
G. Kopsinis, K. Moschonas, A. Charonis, K. Platari, D. Tsoukanas, T. Filippopoulos (*Greece*)
- P4.105 Use of GlaucoChart (Medisoft®) in the identification of stable ocular hypertensive and glaucoma suspect patients
A. Porteous, R. Patel, S. Jungkim, F. Ahmed, N. Shumsky, D. Johnston, P. Bloom, F. Cordeiro, C. Migdal (*United Kingdom*)
- P4.106 Changes of intraocular pressure in patients after Descemet stripping automated endothelial keratoplasty: a retrospective analysis
L. Müller, F. Bochmann, L.M. Bachmann, M.A. Thiel (*Switzerland*)
- P4.107 Intraocular pressure (IOP) management in patients with ocular hypertension and glaucoma following intravitreal injections of anti-VEGF agents
E. Ansari (*United Kingdom*)
- P4.108 Early effects of pars plana vitrectomy combined with intravitreal gas tamponade on intraocular pressure and corneal biomechanics
U. Elgin, M.Y. Teke, E. Sen, P. Ozdal, F. Ozturk (*Turkey*)
- P4.109 Monitoring of glaucoma after the implantation of a keratoprosthesis
M. Papadia, R. Scotto, A. Bagnis, C.E. Traverso (*Italy*)



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IMAGING, PSYCHOPHYSICS, INTRAOCULAR PRESSURE, BIOMECHANICS

SCREEN 19

- P4.I10 Masked open angle glaucoma
D. Kazakova (*Bulgaria*)
- P4.I11 Glaucoma during pregnancy and puerperium
P. Naranjo Bonilla, R. Giménez Gómez, J.M. Gallardo Galera (*Spain*)
- P4.I12 Study of retinal nerve fiber layer in obstructive sleep apnea syndrome patients
B. Ferrandez, P. Calvo, N. Güerri, L. Gil-Arribas, A. Ferreras (*Spain*)
- P4.I13 Fundus autofluorescence in the diagnosis of glaucoma
Z. El Sanabary (*Egypt*)
- P4.I14 Goniosynechiaes and glaucoma following posterior lamellar keratoplasty
L. Thederan, K. Lodde, F. Grehn, G. Geerling, T. Klink (*Germany*)
- P4.I15 Is there a general rule for management of glaucoma in pregnancy and lactation? Reflections around two case reports
J. Suarez Jauregui, J.L. Macaya Pascual, V. Mas Tur, M. Guarro Miralles, F.J. Goñi Foncillas (*Spain*)

SCREEN 20

- P4.I16 Correlation between retinal vessel thickness and circumpapillary RNFL profiles
I. Pereira, S. Weber, S. Holzer, H. Resch, B. Kiss, G. Fischer, C. Vass (*Austria*)
- P4.I17 Can trans-sphenoidal operation of hypophisial cystic macroadenoma be the cure for open angle glaucoma? Case report
A. Miljkovic, V. Andreic, N. Babic (*Serbia*)
- P4.I18 Patient with glaucoma and pituitary macroadenoma - Signs and symptoms
V. Poposki, D. Poposka, X. Vazquez, E. Barnola, J. Cano (*Spain*)
- P4.I19 The effect of erythropoietin treatment on retinal nerve fiber layer parameters in patients with chronic renal failure undergoing peritoneal dialysis
Z. Aktas, M. Ünlü, K. Uludag, Y. Ertan, B. Hasanreisoglu (*Turkey*)
- P4.I20 Evaluation of ocular surface temperature in patients with glaucoma
S. Moussa, U. Löw, G. Milioti, T. Eppig, A. Langenbucher, B. Seitz (*Germany*)
- P4.I21 Angular lesions secondary to closed globe injury
S. Prieto Briceño, M. Castany Aregall, A. Dou Saenz De Vizmanos, A. Carceller Guillamet, J. García-Arumí (*Spain*)
- P4.I22 Abnormal tonography pattern in a healthy subject with high glaucoma risk. Can Sensimed Trigerfish ocular tonography be used for screening and early diagnosis of glaucoma?
R. Wasilewicz, P. Wasilewicz, P. Tabaczewski, A. Radziemski, R. Goedkoop, J. Kociecki (*Poland, USA, Switzerland*)



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MEDICAL AND SURGICAL MANAGEMENT

SCREEN 1

- P5.1 Irrigation ab interno trabeculotomy in primary open-angle glaucoma treatment (technique and results)
D. Ivanov (*Russia*)
- P5.2 Intrasceral diathermostomy. A novel method of microinvasive surgery for primary glaucoma treatment
E. Balakireva, O. Kiseleva, A. Bessmertny, O. Filippova (*Russia*)
- P5.3 IOP and medication reduction following implantation of a trabecular micro-bypass stent in combination with cataract surgery in patients with primary open angle glaucoma
E. Besancon, M. Mercie, M. Boissonnot, P. Ingrand, M. Chabin (*France*)
- P5.4 Short-term evaluation of trabectome in Japanese patients
N. Shoji, M. Takahashi, M. Kasahara, T. Morita, K. Shimizu (*Japan*)
- P5.5 Micro-invasive glaucoma surgery (MIGS) in the treatment of open-angle glaucoma
K. Schargel Palacios, J. Belda Sanchis (*Spain*)
- P5.6 Six-month results of an intracanalicular nickel-titanium scaffold for IOP reduction in open angle glaucoma
N. Pfeiffer, K. Lorenz, M. Tetz, G. Scharioth, S. Grisanti, C. Vass, M. Ramirez, T. Samuelson (*Germany, Austria, Mexico, USA*)

SCREEN 2

- P5.7 The trabectome - First European results and subgroup analysis
J.F. Jordan, T. Wecker, C. van Oterendorp, D. Boehringer, T. Reinhard, M. Neuburger (*Germany*)
- P5.8 iStent glaucoma device: experience at CHUM
S. Gagné, H. Singh (*Canada*)
- P5.9 Trabectome outcomes in glaucoma patients
S. Longstaff (*United Kingdom*)
- P5.10 Secondary subconjunctival implantation of biodegradable porous collagen matrix for treating ocular hypotony following trabeculectomy with mitomycin C
T. Dietlein, A. Rosentreter (*Germany*)
- P5.11 Postoperative outcome after trabeculectomy in patients with initial intraocular pressure < 3 mmHg
T. Wortmann, C. Klotz, I. Oberacher-Velten, H. Helbig (*Germany*)
- P5.12 A comparative study between crosslinked sodium hyaluronate (Healaflo) and sodium hyaluronate 2.3 (Healon 5) as subconjunctival spacers injected into failed filtration blebs during needling with MMC
B. Foscari, C. Bergin, E. Sharkawi (*Switzerland*)

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MEDICAL AND SURGICAL MANAGEMENT

SCREEN 3

- P5.13 Postoperative subconjunctival bevacizumab injection as an adjunct to 5-fluorouracil in the management of scarring after trabeculectomy
F.J. Freiberg, S. Karl, J. Matlach, F. Grehn, T. Klink (*Germany*)
- P5.14 First results of using proteolytic enzyme to reduce scarring after glaucoma filtration surgery
L. Nazarenko, O. Kiseleva, E. Iomdina, O. Kalinina (*Russia*)
- P5.15 Results of amniotic membrane use in patients with different risk of trabeculectomy failure in more than year follow-up
G. Vashkevich, T. Imshenetskaya, H. Sitnik (*Belarus*)
- P5.16 Sulfated glycosaminoglycan (sGAG) mixture. A new anti-scarring agent for glaucoma surgery
S.V. Novikov, A.V. Shatskikh, E.K. Takhchidi, K.S. Gorbunova (*Russia*)
- P5.17 Trabeculectomy versus Ex-Press glaucoma filtration device in ocular hypertension after pars plana vitrectomy and silicone oil emulsification
D. Errico, F. Scrimieri, G. Iarossi, R. Fedeli (*Italy*)
- P5.18 Comparison between limbal based and fornix based conjunctival flaps in cases of tabeculectomy with MMC
A. Harby (*Saudi Arabia*)

SCREEN 4

- P5.19 Postoperative outcome after trabeculectomy in patients with a preoperative intraocular pressure higher than 3 mmHg
C. Klotz, T. Wortmann, H. Helbig, I. Oberacher-Velten (*Germany*)
- P5.20 Comparison of two different intraoperative delivery methods of mitomycin C during trabeculectomy
J. Matlach, E. Panidou, T. Klink, F. Grehn (*Germany*)
- P5.21 Pinpoint identification of filtration opening on the scleral flap margins created by trabeculectomy
T. Inoue, R. Matsumura, U. Kuroda, K.-I. Nakashima, T. Kawaji, H. Tanihara (*Japan*)
- P5.22 Ologen implants as an adjuvant for revision surgery after failed trabeculectomy
P. Kouros, C.C. Loesche, Z. Sbeity, P.-M. Palmiero (*Germany, USA*)
- P5.23 Outcome of repeat trabeculectomy with mitomycin-C
S. Rajendrababu, S. Patil, G. Puthuran, R. Krishnadas (*India*)
- P5.24 Comparison of AS OCT with gonioscopy in evaluating ostium patency in patients with failing trabeculectomy surgery
P. Thacker, U. Yadava, K. Jai Singh, S. Gupta (*India*)

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MEDICAL AND SURGICAL MANAGEMENT

SCREEN 5

- P5.25 Trabeculectomy with or without a peripheral iridectomy
B. Koucheqi, Z. Vahediamoli, M. Mehrabanfar (*Iran*)
- P5.26 Preliminary results of trabeculectomy with suprachoroidal derivation
R. Perez Grossmann, D. Grigera, A. Wenger (*Argentina*)
- P5.27 The changing practice of trabeculectomy surgery in a UK tertiary referral centre, 1991-2008
K. Mercieca, J. Brady, M.I. Khan, L. Au, C. Fenerty, A.F. Spencer (*United Kingdom*)
- P5.28 Efficacy of intraocular pressure guided suture tension adjustment during trabeculectomy: a randomized controlled trial
Y.B. Liang, S. Rong, Y. Huang, R. Thomas, H. Meng, S. Fan, R. Wang, H.Y. Cui, N. Wang (*China, Australia*)
- P5.29 Clinical evaluation and blebs tomographic filtration after routine use of mitomycin C during filtering surgery. About 49 cases
N. Yani, M. Mercie, B. Idriss, J.-J. Gicquel, M. Boissonnot (*France*)
- P5.30 Scleral tunnel mini-trabeculectomy in glaucomatous eyes with dry eye
M. Guzey (*Turkey*)

SCREEN 6

- P5.31 Combined anterior approach and posterior approach for the management of post-trabeculectomy hypotony with hypotony maculopathy
M. Elbasty (*Egypt*)
- P5.32 Risk factors for corneal decompensation following glaucoma surgery
S.-C. Cha, T.-Y. Lee, J.-Y. Lee, K.-W. Lee (*Korea*)
- P5.33 Long-term outcomes following the surgical repair of traumatic cyclodialysis clefts
P. Agrawal, F. Sii, R. Tailor, P. Shah (*United Kingdom*)
- P5.34 About a case of wipe out phenomenon: a surprising explanation
I. Orignac, M. Weber (*France*)
- P5.35 Clinical profile, investigation and management of 87 eyes diagnosed with malignant glaucoma
S. Balekudaru, P. Rewri, V. Lingam, P. Bhende (*India*)
- P5.36 Risk factors for decompression retinopathy after glaucoma surgery
K.I. Jung, C.K. Park (*Korea*)
- P5.37 Management of an uveal effusion in nanophthalmos, a case report
C. Andrébe, C. Schweitzer, O. Chatoux, F. Malet, J. Colin (*France*)

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SCREEN 7

- P5.38 Cyclodialysis cleft treatment with a minimally invasive technique
J. Pinheiro-Costa, A. Melo, J. Silva-Cotta, J.P. Macedo, A.M. Carneiro, F. Falcão-Reis (*Portugal*)
- P5.39 Outcome of bleb revision using scleral patch graft for complications following trabeculectomy
G. Venkataraman, J. Jaho, S. Patil, K. Dhume, S. Deshmukh, S. Parthasarathi (*India*)
- P5.40 Primary deep sclerectomy augmented with bevacizumab: a comparative case control study
J.C. Mesa-Gutierrez (*Spain*)
- P5.41 Laser reconstruction of anterior chamber angle as a method of hypertension elimination after non-penetrating deep sclerectomy
T. Sokolovskaya, D. Magaramov, E. Usoltseva, Y. Kochetkova (*Russia*)
- P5.42 Surgical results of minimally invasive revision ab interno for iris incarceration following nonpenetrating filtering surgery
N. Toyokawa, S. Kuroda, H. Kimura, M. Matsumura (*Japan*)
- P5.43 Prognostic factors for the efficacy of deep sclerectomy with T-Flux NV or SKGEL implants in primary open-angle glaucoma and exfoliative glaucoma: a five-year study
B. Giambene, F. Galassi (*Italy*)
- P5.44 Deep sclerectomy augmented with suprachoroidal gold micro-shunt: month results
P. Harasymowycz (*Canada*)

SCREEN 8

- P5.45 Prospective analysis of non penetrating deep sclerectomy filtering bleb by anterior segment optical coherence tomography
J.A. Urcola, C. Dalmaso, A. Gómez, A. Larrauri, E. Miranda (*Spain*)
- P5.46 Combined viscocanalostomy-trabeculectomy (Visco-Trab) operation: a dual filtration pathway for management of advanced to end-stage glaucoma
T. Eid, E.E. Ibrahim (*Egypt*)
- P5.48 The circular probing of Schlemm's canal in glaucoma surgery
N. Postupaeva, A. Egorova, A. Postupaev (*Russia*)
- P5.49 Four-year experience with canaloplasty in open-angle glaucoma
P. Brusini, C. Tosoni (*Italy*)
- P5.50 Visante OCT in non-penetrating deep sclerectomy with intraoperative antimetabolites and no implant: long-term results
C. Gutierrez-Ortiz, A. Moreno-Salgueiro, C. Pérez-Rico, A. González-Mesa, J. Gros-Otero, M.A. Teus-Guezala (*Spain*)
- P5.51 Correlation between intrascleral bleb height measured by anterior segment OCT and IOP in deep sclerectomy with three kind of implants
R. Fernández Buenaga, G. Rebolleda, P. Casas Llera, F.J. Muñoz Negrete, M. Pérez López (*Spain*)
- P5.52 Choice of additional intervention in failed microinvasive nonpenetrating deep sclerectomy (MNPDS)
E.K. Takhchidi, N. Kozlova (*Russia*)

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- P5.53 Canaloasty for primary open angle glaucoma in Caucasians. Two year results from a tertiary referral centre in The Netherlands
T. Theelen, R. Bakker, C.A. Eggink (*The Netherlands*)
- P5.54 Comparative study between Esnoper and T-flux as device for deep esclerectomy surgery after one year of follow-up
S. Copete Piqueras, N. Puerto Amorós, A. Moreno Valladares, I. Flores Moreno, I. Pérez González (*Spain*)
- P5.55 Trabeculectomy versus deep sclerectomy with viscocanalostomy in primary open-angle glaucoma
P. Tein (*Estonia*)
- P5.56 Phacoemulsification versus combined phacotrabeculectomy in closed-angle patients with re-elevated intraocular pressure after peripheral iridotomy
S. Hyung, S. Bae, J.H. Lee, K.R. Choi, K.W. Lee (*Korea*)
- P5.57 Comparison of filtering bleb survival and intraocular pressure between combined phacotrabeculectomy and trabeculectomy in primary open-angle glaucoma and primary angle-closure glaucoma
C. Kim, K. Kim, D. Heo (*Korea*)
- P5.58 A long-term evaluation of iStent implantation in combination with cataract surgery in patients with coexistent cataract and mild-moderate open angle glaucoma uncontrolled on medications
J.M. Martínez-de-la-Casa, J. Garcia-Feijoo, P. Arriola-Villalobos, F. Saenz-Frances, L. Morales, C. Mendez, E. Santos (*Spain*)
- P5.59 EX-PRESS® P50 glaucoma device implantation combined with phacoemulsification
A. Ozcan, F. Simsek (*Turkey*)

SCREEN 10

- P5.60 Combined phacoemulsification, endoscopic ciliary process photocoagulation, and intraocular lens implantation in refractory glaucoma management
S. Avramovic, Z. Kuljaca, Z. Ignjatovic (*Serbia*)
- P5.61 Goniosynechialysis combined with phacoemulsification in patients with uncontrolled acute primary angle closure and primary angle-closure glaucoma
J.W. Lee, E.A. Kim, S.J. Kim (*Korea*)
- P5.62 Ovality of the anterior capsular opening after cataract surgery in patients with primary angle-closure disease
Y.Y. Kim, C. Yoo, C. Yun (*Korea*)
- P5.63 Endotrabeculectomy and phacoemulsification for combined glaucoma and cataract surgery
I. Novytskyy, M. Novytskyy (*Ukraine*)
- P5.64 Micro incision cataract surgery combined with EX-PRESS (P-50) implant under scleral flap and reticulate hyaluronic acid injection
R. Altafini, S. Morselli (*Italy*)
- P5.65 Trabeculectomy in phakic, in pseudophakic eyes vs phacotrabeculectomy with mitomycin C
S. Hosoda, D. Shiba, T. Ono, N. Ozeki, K. Yuki, K. Tshbota (*Japan*)
- P5.66 Clinical outcome of the combination of phacoemulsification and trabeculotomy
U. Loew, C.-P. Jonescu-Cuypers, S. Moussa, G. Milioti, A. Langenbucher, B. Seitz (*Germany*)

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SCREEN 11

- P5.67 The IOL of choice for combined cataract and glaucoma filtration surgery: three year experience with MI60
S. Morselli, R. Altafini (*Italy*)
- P5.68 Control of ocular hypertension in nanophthalmic eyes with implant Minishunt-EXPRESS®
A. Oleñik Memmel, C. Rodríguez-Bermejo, M.A. De la Fuente, B. Sandoval (*Spain*)
- P5.69 Mini Xpress valve for the surgical management of complex glaucomas
E. Ansari (*United Kingdom*)
- P5.70 New surgical technique of repositioning malpositioned tube tips after Ahmed valve implantation
K.T. Ma, S.S. Rho, S. Hong, G.J. Seong, J.H. Kim, C.Y. Kim (*Korea*)
- P5.71 Comparison of the outcome of silicone Ahmed glaucoma valve implantation with a surface area between 96 mm² and 184 mm²
Y.-H. Sohn, Y.C. Jeong, S. Young Jin (*Korea*)
- P5.72 Preoperative assessment of opening and closing pressure of silicone Ahmed glaucoma valves
F. Bochmann, A. Kipfer, L. Müller, L.M. Bachmann, M.A. Thiel (*Switzerland*)
- P5.73 Miniature EX-PRESS 200 glaucoma device implantation (retrospective case series)
M. Corsani (*Italy*)

SCREEN 12

- P5.74 Ahmed glaucoma valve implantation in refractory glaucoma
G. Vashkevich, T. Imshenetskaya (*Belarus*)
- P5.75 Viscosurgery-assisted glaucoma minishunt implantation
V. Trubilin, A. Trubilin (*Russia*)
- P5.76 Surgical outcomes of Baerveldt aqueous shunt implantation versus combined phacoemulsification and Baerveldt aqueous shunt implantation
F. Achache (*Switzerland*)
- P5.77 Encapsulated bleb removal following Ahmed glaucoma valve implantation
J. Rosbach, L. Choritz, G. Renieri, N. Pfeiffer, H. Thieme (*Germany*)
- P5.78 Evaluation of the incidence of severe hypotony and lost AC in cases of valvular GDDs (AGV) implantation
H. Ahmed (*Saudi Arabia*)
- P5.79 Baerveldt tube position in relation to corneal endothelial cell loss
A.N. Tan, T.T.J.M. Berendschot, C.A.B. Webers, J. de Brabander, P.M. de Witte, R.M.M.A. Nuijts, J.S.A.G. Schouten, H.J.M. Beckers (*The Netherlands*)
- P5.80 Outcomes of primary tube shunt surgery versus trabeculectomy with mitomycin C
J. Panarelli, M. Banitt, S. Gedde, J. Schiffman (*USA*)

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- P5.81 Surgical outcomes of deep sclerectomy versus Baerveldt aqueous shunt implantation following initial failed deep sclerectomy
E. Sharkawi, A. Petrovic, A. Mermoud, E. Ravinet, C. Schnyder, F. Achache, C. Bergin (*Switzerland*)
- P5.82 Baerveldt aqueous shunt implantation into the ciliary sulcus: a novel surgical technique
C. Bergin, S. Andrei, F. Achache, E. Sharkawi (*Switzerland*)
- P5.83 Comparison of filtering blebs of trabeculectomy and tube shunts using conjunctival impression cytology
S. Ugurlu, M. Erdogan, S. Aktas, D. Egrilmez (*Turkey*)
- P5.84 NSAID's versus steroids: which is best for postsurgical management of glaucoma Ahmed valve implant? A pilot study
C. Esponda Lammoglia, O. Albis Donado, J. Jimenez Roman (*Mexico*)
- P5.85 Intracameral tying-off of glaucoma drainage device tubes as a management of hypotony following GDD implant surgery
P. Cikatricis, T. Parmar, N. Mavranakas, V. Sung (*United Kingdom*)
- P5.86 Special surgical considerations in the case of combined surgery for glaucoma tube insertion and Boston type keratoprosthesis implantation
C. Pallás, H. Pallás (*Spain*)
- P5.87 Application of collagen impregnated polyester grafts as drainage devices in different types of glaucoma surgery
N. Palarie, T. Pasenco (*Moldova*)

SCREEN 14

- P5.88 Characteristics of diurnal and nocturnal peaks IOP using continuous 24-hour IOP monitoring
K. Mansouri, F. Medeiros, R. Weinreb (*USA*)
- P5.89 Relationship between long-term intraocular pressure variability and structural and functional parameters in glaucoma
T. Realini, R. Weinreb (*USA*)
- P5.90 Pattern of intraocular pressure fluctuation between currently-treated primary angle closure and primary open angle glaucoma
Y. Tangseepha, A. Manassakorn (*Thailand*)
- P5.91 Variations of intraocular pressure before and after visual field examination in various glaucoma patients
J.H. Yim, J.K. Min, K.S. Park, S.J. Lee, S.W. Kim, J.M. Woo (*Korea*)
- P5.92 24-hour wear of a contact lens sensor for continuous intraocular monitoring is well tolerated
F. Medeiros, N. Pfeiffer, A. Mermoud, K. Lorenz, K. Mansouri, J. Lindell, R.J. Goedkoop, R.N. Weinreb (*USA, Germany, Switzerland*)
- P5.93 Effect of phacoemulsification on IOP level
M. Janicijevic Petrovic, T. Sarenac-Vulovic, K. Janicijevic, N. Petrovic, S. Sreckovic, S. Paunovic, D. Vulovic, M. Petrovic (*Serbia*)
- P5.94 Relationship between intravitreal antivascular endothelial growth factor injection and intraocular pressure for the treatment of neovascular age related macular degeneration
N. Ariturk, G. Kazaz (*Turkey*)

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MEDICAL AND SURGICAL MANAGEMENT

SCREEN 15

- P5.95 Wake/sleep transition-related IOP fluctuation recorded during contact lens-based 24-hour continuous IOP monitoring in healthy and glaucoma subjects
K. Lorenz, M.M. Keilani, C. Korb, N. Herzog, J. Wasielica-Poslednik, H. Elflein, N. Pfeiffer (*Germany*)
- P5.96 In-hospital continuous 24-hour IOP monitoring in the habitual position with a contact lens device
M. Kolko, D. Bach-Holm, V. Kvaraciejute, J. Thygesen (*Denmark*)
- P5.97 A 6-month, observational trial investigating with electronic monitoring the level of adherence and ocular surface health with latanoprost/timolol fixed versus latanoprost and timolol unfixed therapy in glaucoma
A.G.P. Konstas, K.G. Boboridis, V. Toumanidou, A.T. Dimopoulos, D.G. Mikropoulos, A.B. Haidich, G. Mourtzis, T. Giannopoulos, I.C. Voudouragaki, E. Paschalinou, E.S. Panagiotou, M. Kahook, A.L. Robin (*USA*)
- P5.98 Oral antioxidant supplementation in primary open-angle glaucoma
J.J. Garcia-Medina, M. Garcia-Medina, V. Zanon-Moreno, C. Garcia-Maturana, S. Pons-Vazquez, S. Perez-Pardo, M.D. Pinazo-Duran (*Spain*)
- P5.99 Macular edema and prostaglandins treatment
J. Paz Moreno-Arrones, G. Bolívar De Miguel, J. Gros Otero, C. Gutierrez Ortiz, M.A. Castejon Cervero, M.A. Teus Guezala (*Spain*)
- P5.100 Clinical development of AR-12286: assessing safety and ocular hypotensive efficacy in patients with elevated intraocular pressure and in normotensive volunteers
T. van Haarlem, C. Kopczynski, G. Novack (*USA*)

SCREEN 16

- P5.102 Ocular surface alteration and topical antiglaucomatous therapy: symptoms vs clinical signs
T. Rolle, D. Curto, E. Isaia, F. Damiani, P. Lanzafame, A. Actis (*Italy*)
- P5.103 Syndrome of dry eye of the patients with primary glaucoma
O. Andrushkova (*Ukraine*)
- P5.104 Granulomatous conjunctivitis associated with the use of brimonidine
M. Carrasco, J. Zarate (*Argentina*)
- P5.105 Prospective follow-up study regarding refill adherence and polypharmacy among patients with open angle glaucoma or ocular hypertension
H.C.S. Römken, C.A.B. Webers, J.S.A.G. Schouten, H.J.M. Beckers (*The Netherlands*)
- P5.106 Bimatoprost 0.03% preservative-free ophthalmic solution versus lumigan 0.03% ophthalmic solution for glaucoma or ocular hypertension: a 12-week, double-masked trial
D. Day, T. Walters, G. Schwartz, T.K. Mundorf, M. Bejanian, C. Liu, R. Schiffman (*USA*)
- P5.107 A prospective study of GANfort® treatment for patients with primary open angle glaucoma (POAG) or ocular hypertension (OHT)
A. Diagourtas, S. Talias, E. Karmiris, C. Koutsandrea, G. Georgopoulos, D. Papaconstantinou (*Greece*)
- P5.108 Cytotoxicity on human conjunctival cell cultures of bimatoprost 0.03% and bimatoprost 0.01%
J.F. Ramos Lopez, E. Rodrigo-Morales, F. Perez-Roca, M.A. Martin-Piedra (*Spain*)

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MEDICAL AND SURGICAL MANAGEMENT

SCREEN 17

- P5.109 PAP (prostaglandins-associated periorbitopathy)
C. Seabra, M. Bicho (*Portugal*)
- P5.110 Tear clearance and ocular symptoms in patients treated with prostaglandins without preservatives
R. Giménez-Gómez, R. García-Catalán (*Spain*)
- P5.111 Ocular surface tolerability of prostaglandin analogs in patients with glaucoma or ocular hypertension
J. Williams, S. Vold, A. Crichton, D.A. Hollander (*Canada*)
- P5.112 Distribution of adherence to intraocular pressure lowering agents among glaucoma patients is bimodal and robust to operational definitions of glaucoma and adherence
J. Jones, D. Fong, E. Fang, C. Mesirov, R. Wang, V. Patel (*USA*)
- P5.113 Factors contributing to adherence with topical glaucoma treatments
J. Jones, D. Fong, E. Fang, C. Mesirov, R. Wang (*USA*)
- P5.114 Continuous IOP monitoring in glaucoma patients treated with tafluprost
A. Aref, S. Bhartiya, K. Mansouri, T. Shaarawy (*Switzerland*)
- P5.115 The relationship between sub basal nerve morphology and corneal sensation in patients treated for glaucoma
A. Labbé, H. Alalwani, C. Van Went, E. Brasnu, A. Denoyer, C. Baudouin (*France*)

SCREEN 18

- P5.116 Correlation between the use of prostaglandin analogues and the development of macular edema after phacoemulsification surgery
M. Figus, C. Posarelli, S. Lazzeri, L. Martini, M. Nardi (*Italy*)
- P5.117 Citotoxicity on human conjunctival cell cultures of BAK preserved travoprost and travoprost with Polyquad®
F. Perez-Roca, E. Rodrigo-Morales, J.F. Ramos Lopez, M.A. Martin-Piedra (*Spain*)
- P5.118 Effect of a new audible and visual reminder device on adherence with topical latanoprost for glaucoma
M. Hermann, A. Bron, C. Creuzot-Garcher, M. Diestelhorst (*Germany, France*)
- P5.119 Initial treatment in glaucoma suspects and ocular hypertension subjects: a decision tree based analysis
C.S. Fernandez Escamez, E. Martin Giral, S. Perucho Martinez, J.A. Reche Sainz, N. Toledano Fernandez (*Spain*)
- P5.120 Ocular pseudophakia after topical multidrug administration and anterior segment surgery in chronic glaucoma
S. Troisi, V. Turco, P. Turco (*Italy*)
- P5.121 Intraocular pressure reduction by tafluprost and latanoprost with every other day administration
A. Ando, K. Minamino, M. Matsuoka, K. Matsuyama, H. Mori, C. Takagi, A. Kuwahara, T. Nishimura, K. Takahashi (*Japan*)
- P5.122 An examination of the improvement in ocular surface disease (OSD) in glaucoma patients following months of treatment with Catioprost®, a preservative-free latanoprost 0.005% cationic emulsion, in two multi-center studies
R. Buggage, M. Amrane, D. Ismail, J.-P. Pisella, C. Baudouin (*France*)

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MEDICAL AND SURGICAL MANAGEMENT

SCREEN 19

- P5.123 Effect of non-steroidal anti-inflammatory ophthalmic solution on intraocular pressure reduction by prostaglandin analog in patients with glaucoma
C. Altan, B. Satana, F.E. Aksoy, Y. Kucuksumer, D. Alp, A. Cinal, A. Demirok (*Turkey*)
- P5.124 Evaluation of ocular surface disease associated with glaucoma patients
N. Yüksel, R. Osmanoglu Cinik, B. Cucen, O. Altintas (*Turkey*)
- P5.125 A comparison of efficacy and safety between superior 180 and inferior 180 degree selective laser trabeculoplasty in open angle glaucoma
J.W. Lee, K.W. Lee, E.J. Kim, J.H. Kim (*Korea*)
- P5.126 Efficacy and safety of selective laser trabeculoplasty (SLT): results of this procedure for open angle glaucoma (OAG) over a 8 & 1/2 - year period
F. Ferentini, A. Porta (*Italy*)
- P5.128 Acute reversible corneal endothelial changes associated with selective laser trabeculoplasty
A. White, A. Mukherjee, H. Shahid, I. Hanspal, N. Sarkies, M. Rajan, K. Martin, P. Shah (*United Kingdom*)
- P5.130 Long-term visual outcomes of glaucoma patients following a single episode of trans-scleral cyclodiode laser treatment
H. Shahid, I. Zekhov, N. Sarkies, K. Martin, A. White, R. Janjua (*United Kingdom*)

SCREEN 20

- P5.132 High-intensity focused ultrasound cyclocoagulation: a twelve-month follow-up pilot study
F. Aptel, T. Charrel, C. Lafon, F. Romano, J.-Y. Chapelon, E. Blumen-Ohana, J.-P. Nordmann, P. Denis (*France*)
- P5.134 Experience and 3-year results of diode laser cycloablation in adult glaucoma
G. Ansari, A.M. Gruener, C.L.J. Page, M.F.P. Griffiths (*United Kingdom*)
- P5.136 Effectiveness of selective laser trabeculoplasty on pigmentary glaucoma
C. Scemama Timsit, E. Blumen Ohana, J. Akesbi, E. Bluwol, A. Labbe, O. Laplace, J.P. Nordmann (*France*)
- P5.137 Comparison of diode laser with selective laser trabeculoplasty in patients with open angle glaucoma
J.J. Molina Fernández, E. Millá Griñó, C. Larena Gómez, N. Sabater Cruz (*Spain*)
- P5.138 Prognostic criteria of development reactive hypertension after selective laser activation of trabecula in patients with primary open angle glaucoma
T. Lyubimova, E. Ivanova, N. Tumanyan, E. Subkhangulova (*Russia*)
- P5.139 Endocyclophotocoagulation: experience at CHUM
H. Singh, K. Biernacki, S. Gagné (*Canada*)
- P5.141 Pascal laser trabeculoplasty versus argon laser trabeculoplasty in open-angle glaucoma
M. Castany Aregall, A. Carceller, C. Pujadas, A. Dou, J. García-Arumí (*Spain*)