



European Society of Cornea and
Ocular Surface Disease Specialists

6th EuCornea Congress BARCELONA

4–5 September 2015

Programme



Friday 4 September

Room 3

08.00 – 09.00

Free Paper Session 3

Recent Developments in Cornea

Moderators: T. Fuchsluger *GERMANY*
G. Kymionis *GREECE*

- 08.00 J. Holopainen, A. Robciuc, R. Arvola *FINLAND*
Matrix regeneration therapy: RGTA in-vitro wound healing assessment
- 08.06 E. Ghazaryan *ARMENIA*
Effect of transplanted mesenchymal stem cells on corneal neovascularization: comparison of different application routs
- 08.12 F. Soria Arellano, C. Lachaud, N. Escacena, E. Quesada-Hernnandez, A. Hmadcha, B. Soria, J.L. Alió *SPAIN*
Mesothelial cells: a cellular surrogate for tissue engineering of corneal endothelium
- 08.18 D. Ma, H. Chen, K. Ma, J. Lai *TAIWAN*
Preservation of human limbal epithelial progenitor cells on the basement membrane of cross-linked amniotic membrane via integrin-linked Kinase-mediated Wnt activation
- 08.24 A. Hammer, S. Kling, M. Boldi, O. Richoz, D. Tabibian, F. Hafezi *SWITZERLAND*
Establishing corneal cross-linking in mice: biomechanical analysis
- 08.30 B. Byström, F. Jonsson, P. Danielson, I. Golovleva *SWEDEN*
Bothnia corneal dystrophy: mutation in collagen type XVII (COL17A): a novel cause of epithelial recurrent erosion dystrophy (ERED) in northern Sweden
- 08.36 J. Moore, D. Courtney, A. Nesbit, S. Atkinson, E. Maurizi, T. Moore *UK*
Developing mutant allele-specific CRISPR/Cas9 gene editing for dominant-negative genetic eye disease
- 08.42 D. Koch, E. Barragan, A. Chayet, A. Lang *USA*
Mechanism of action and clinical implications of profocal cornea created by transparent hydrogel corneal inlay
- 08.48 Discussion
- 09.00 End of Session

Room 1

09.00 – 10.30

Focus Session 1

Dry Eye Diagnosis & Management

Moderators: B. Cochener *FRANCE*
J. Duran *SPAIN*

- 09.00 J. Benítez del Castillo Sánchez *SPAIN*
Inflammation and dry eye
- 09.12 M. Rolando *ITALY*
The importance of tear clearance in the ocular surface health
- 09.24 F. Grus *GERMANY*
New biomarkers
- 09.36 B. Cochener *FRANCE*
New exploration
- 09.42 M. Nubile *ITALY*
In-vivo confocal microscopy in limbal stem cell deficiency
- 09.48 S. Doan *FRANCE*
Advances in dry eye treatment
- 10.00 L. Schmetttrr *AUSTRIA*
Changes in tear film thickness after administration of topical lubricants in dry eye patients
- 10.06 M.Y. Sayed Saif *EGYPT*
Effect of hormonal contraception on eye dryness
- 10.12 Discussion
- 10.30 End of session

Friday 4 September

Room 2

09.00 – 10.30

Focus Session 2

Anterior Lamellar Keratoplasty

Moderators: L. Fontana *ITALY*
J. Hjortdal *DENMARK*

- 09.00 **S. Hannush** *USA*
DAVK as alternative to PK for keratoconus: evidence from the literature
- 09.12 **H. Dua** *UK*
The relevance of graft-host interface on the visual outcomes after DALK
- 09.24 **D. Tan** *USA*
DAVK after DSEK
- 09.36 **S. Yoo** *USA*
Present and future role of femtosecond technology for ALK
- 09.48 **R. Cobian** *SPAIN*
Crescentic lamellar keratoplasty in pellucid marginal degeneration: Surgical technique and preliminary results
- 09.54 **J. van der Hoek** *UK*
DAVK and PKP in a remote eye clinic in Cameroon
- 10.00 **M. Busin** *ITALY*
Microkeratome-assisted ALK for superficial and mid-stromal opacities
- 10.14 Discussion
- 10.30 End of session

Room 1

11.00 – 12.30

Focus Session 3

Recent Developments in Cornea

Moderators: H. Dua *UK*
T. Fuchsluger *GERMANY*

- 11.00 **F. Hafezi** *SWITZERLAND*
Corneal cross-linking (PACK-CXL) as a first line treatment for small ulcers: first results of the Swiss prospective randomized multicenter trial
- 11.10 **D.G. Said** *EGYPT*
Collagen cross-linking as treatment for infectious keratitis
- 11.20 **H. Dua** *UK*
Pre-Descemet's endothelial keratoplasty
- 11.30 **J. Hjortdal** *DENMARK*
Arhus: Functional testing of diseased and grafted corneal endothelium
- 11.40 **T. Fuchsluger** *GERMANY*
Endothelial keratoplasty: Update from lab and clinic
- 11.50 **S. Kinoshita** *JAPAN*
Cell therapy for bullous keratopathy
- 12.00 **L. Mastropasqua** *ITALY*
Interferometric polarimetry for the analysis of the corneal stroma
- 12.10 Discussion
- 12.30 End of session

Friday 4 September

Room 2

11.00 – 12.30

Focus Session 4

*in conjunction with Pancornea***Cornea Complication in
Refractive Surgeries**Moderators: G. Kymionis *GREECE*
J.A. Pereira Gómez *BRAZIL*

- 11.00 R. Ambrosio *BRAZIL*
LASIK: Doc, my eyes got dry
- 11.10 J.L. Alió *SPAIN*
Unexpected astigmatism after astigmatic refractive surgery
- 11.20 B. Cochener *FRANCE*
Mytomicin and corneal nightmares
- 11.30 B. Randleman *USA*
Post-refractive corneal ectasia
- 11.40 F. Hafezi *SWITZERLAND*
LASIK Recurrent-recurrent epithelial ingrowth
- 11.50 A.J. Kanellopoulos *GREECE*
PRK-Cross-linking got too hard
- 12.00 J.S. Mehta *SINGAPORE*
SMILE or FROWN
- 12.10 S. Yoo *USA*
My flap got in infiltrate
- 12.20 Discussion
- 12.30 End of session

Room 1

14.00 – 15.30

Main Symposium 1

Cross Linking 2015Moderators: D. Epstein *SWITZERLAND*
F. Malecaze *FRANCE*
T. Seiler *SWITZERLAND*

- 14.00 W. Dupps *USA*
Biomechanics of the cross-linked cornea
- 14.15 F. Raiskup *GERMANY*
Long-term results
- 14.30 F. Malecaze *FRANCE*
Epi on vs. epi off CXL
- 14.45 T. Seiler *SWITZERLAND*
Complications of CXL
- 15.00 B. Früh *SWITZERLAND*
Demarcation line and clinical results
- 15.15 G. Kymionis *GREECE*
CXL combined with refractive procedures
- 15.30 End of session

Friday 4 September

Room 2

14.00 – 15.30

Skill Transfer Course 1

Corneal Suturing

Moderator: H. Dua *UK*

Presenters: R. Jayaswal *UK*
D.G. Said *EGYPT*

Course Focus:

Suture materials: threads and needles

Suturing corneal lacerations

Suturing in penetrating keratoplasty

Suturing in deep anterior lamellar keratoplasty

Miscellaneous: Suturing of phaco burns; compression sutures, cataract and endothelial keratoplasty incisions when needed

Suture related complications and their management

Room 1

17.00 – 18.30

Main Symposium 2

Expert Presentation of Challenging Cases

Moderators: B. Allan *UK*
H. Dua *UK*
S. Hannush *USA*

- 17.00 **F. Hafezi** *SWITZERLAND*
Collagen cross-linking in paediatric keratoconus
- 17.09 **D.G. Said** *EGYPT*
Melanocytic conjunctival lesion
- 17.18 **D. Tan** *SINGAPORE*
DALK after DSEK with residual stromal scar
- 17.27 **G. Zaidman** *USA*
Nocardia keratitis: diagnosis and management
- 17.36 **R. Nuijts** *THE NETHERLANDS*
Epithelial downgrowth after phakic IOL implantation
- 17.45 **T. Katamish** *EGYPT*
DALK: When the big bubble collapses
- 17.54 **J. Güell** *SPAIN*
Endothelial keratoplasty (DMEK) nightmare
- 18.03 **J. Hjortdal** *DENMARK*
Iris/ anterior chamber epithelial inclusion cyst
- 18.12 **B. Cochener** *FRANCE*
Anterior lamellar keratoplasty: a forgotten therapeutic modality?
- 18.21 Discussion
- 18.30 End of session

OPENING CEREMONY

Friday 4 September

Room 1

16.00 – 17.00



Saturday 5 September

Room 2

08.00 – 09.00

Free Paper Session 5

Endothelium

Moderators: F. Kruse *GERMANY*
T. Sabala *SPAIN*

- 08.00 P. Studeny, D. Krizova, P. Kuchynka *CZECH REPUBLIC*
Evaluation of factors influencing big bubble creation in donor corneas
- 08.06 J. Quadrado Gil, A. Rosa, E. Costa, C. Tavares, M. Quadrado, J. Murta *PORTUGAL*
The effect of donor age on endothelial keratoplasty: Descemet stripping automated endothelial keratoplasty (DSAEK) compared with penetrating keratoplasty
- 08.12 V. Maduro, N. Alves, N. Silva, J. Feijao, C. Batalha, P. Candelaria *PORTUGAL*
Corneal visual rehabilitation in patients with phakic IOL related endothelial decompensation: clinical outcomes
- 08.18 K. Termote, H. Meadows, V. White, M. McCarthy, S. Holland *BELGIUM*
Illustration of tissue harvesting for pre-Descemet's endothelial keratoplasty: pearls and pitfalls learned from a series of ex-vivo pneumodissections
- 08.24 P. Chua, V. Shankar, A. Reddy *UK*
Cellulose spears to dry donor corneal tissue in the preparation of ultrathin endothelial keratoplasty: correlation between duration of drying and residual corneal thickness
- 08.30 A. Duncombe, P. Rossi, D. Toubreau, J. Gueudry, M. Muraine *FRANCE*
Inverted ultrathin DSEK (Descemet stripping endothelial keratoplasty): comparison with DSAEK (automated Descemet stripping endothelial keratoplasty) in Fuchs dystrophy: a prospective study
- 08.36 M. Hovlykke, A. Ivarsen, J. Hjortdal *DENMARK*
Venting incisions impact on astigmatism, aberrations, visual acuity and graft detachment in Descemet stripping automated keratoplasty (DSAEK) for Fuch's endothelial dystrophy
- 08.42 E. Mrukwa-Kominek, R. Kinasz, M. Nowak, M. Swoboda, E. Mielniczuk, S. Sapeta *POLAND*
Ocular surface in patients treated with anti-glaucoma medication
- 08.48 Discussion
- 09.00 End of session

Room 3

08.00 – 09.00

Free Paper Session 6

Cross-Linking

Moderators: F. Malecaze *FRANCE*
L. Mastropasqua *ITALY*

- 08.00 V. Borderie, F. Andreiuolo, K. Grieve, C. Georgeon, M. Pacques *FRANCE*
Features of keratoconic corneal anatomy observed with multiple imaging modalities and histology
- 08.06 K. van Dijk, V. Liarakos, J. Parker, L. Ham, J. Lie, E. Groeneveld-van Beek, G. Melles *THE NETHERLANDS*
Bowman layer transplantation to reduce and stabilize progressive, advanced keratoconus
- 08.12 D. Tabibian, S. Kling, F. Hafezi *SWITZERLAND*
No additional biomechanical effect of CXL after repeated in vivo treatment in mice
- 08.18 S. Kling, A. Hammer, D. Tabibian, O. Richoz, A. Agarwal, S. Jacob, F. Hafezi *SWITZERLAND*
Biomechanical efficacy of UV cross-linking protocols in thin versus thick corneas
- 08.24 J. Brekelmans, A. Goz, A. Brandis, Y. Salomon, A. Marcovich, R. Nuijts, A. Scherz *THE NETHERLANDS*
Ultrafast corneal stiffening by WST11-D and near infra red (NIR) illumination: 1, 5, or 30 minutes?
- 08.30 J.T. Lin *TAIWAN*
A new theory for the dynamic safety dose and efficacy of UV corneal collagen cross-linking
- 08.36 S. Rachapalle Reddi, P. Padmanabhan *INDIA*
Long-term results of collagen cross-linking (CXL) for progressive keratoconus in paediatric age group
- 08.42 P. Padmanabhan, S. Rachapalle Reddi *INDIA*
Corneal collagen cross-linking (CXL) comparison of response in paediatric and adult keratoconic patients
- 08.48 Discussion
- 09.00 End of session