Volume 103 — No 9A

100 YEARS • OF EXCELLENCE 1896 • 1996

FINAL PROGRAM

AMERICAN ACADEMY OF OPHTHALMOLOGY

CENTENNIAL ANNUAL MEETING, OCTOBER 27-31, 1996, CHICAGO, ILLINOIS

100 YEARS · OF EXCELLENCE 1896 · 1996

Final Program

Centennial Annual Meeting of the American Academy of Ophthalmology

October 27 - 31, 1996 • Chicago, Illinois • McCormick Place

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AMERICAN ACADEMY OF OPHTHALMOLOGY
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al; trauma secondary to dust with fungal keratitis ($p<0.05$). Infiltrate area > 25 mm^2 and visual acuity < counting fingers associated with poor visual outcome. ***Conclusion:*** In the tropics, keratomycosis accounts for a significant number of cases of infectious keratitis. Chronic dacryocystitis is an important predisposing factor for bacterial keratitis.

Scientific Poster 21
Clinical Features of Chromosome-16-Linked Macular Corneal Dystrophy (MCD)
Michael D Wagoner, MD, Riyadh, Saudi Arabia; Edwin Mercer Stone, MD, PhD, Iowa City, IA; Monzer Jabak, RN, COT, Riyadh, Saudi Arabia; Val C Sheffield, MD, PhD, Iowa City, IA; Zeynel A Karcioglu, MD, Riyadh, Saudi Arabia

Purpose: To report the clinical findings of a large family with chromosome-16-linked MCD. ***Methods:*** Twenty family members were clinically examined and genotyped with four short tandem repeat polymorphisms from the MCD locus on chromosome 16 (Vance et al, Am J Hum Genet, 1996). ***Results:*** Twelve out of 20 individuals were clinically affected, and seven of these had corneal transplants. Ten out of 12 affected individuals were homozygous for all four markers, whereas all of the unaffected family members were heterozygous for this haplotype. ***Conclusion:*** This study provides further evidence that MCD is caused by a single gene on chromosome 16.

Scientific Poster 22
Penetrating Keratoplasty for Corneal Edema and Opacities in Primary Congenital Glaucoma
Ali A Al-Rajhi, MD, Riyadh, Saudi Arabia

Purpose: To report outcome of penetrating keratoplasty (PKP) for corneal edema and opacities in primary congenital glaucoma (PCG). ***Methods:*** PKP for PCG was performed in 15 eyes of 12 patients (mean age at surgery five months; range 2-300). ***Results:*** Grafts remained clear in 8/15 (53%) after 4-96 months follow-up (mean: 31). There was no correlation between graft clarity and preoperative corneal opacity/size, IOP control, and age at surgery. Graft failure was attributed to graft rejection (1), bacterial keratitis (2), exposure keratitis (1), follow-up delinquency (1), and unknown (2). ***Conclusion:*** PKP for PCG is moderately successful because of postoperative problems.

Scientific Poster 23
Systemic Cyclosporine in Severe Atopic Keratoconjunctivitis
Thanh Hoang-Xuan, MD, Paris, France; Olivier Prisant, MD, Paris, France; Daniele Hannouche, MD, Paris, France

Purpose: Atopic keratoconjunctivitis (AKC) is a potentially blinding disease. It is usually associated with atopic dermatitis, which has been successfully managed with systemic cyclosporine. In this study, we evaluated systemic cyclosporine therapy in severe AKC. ***Methods:*** Four patients with severe uncontrolled AKC have received oral cyclosporine (3 to 5 mg/kg/day) for 22 to 40 months. ***Results:*** Ocular inflammation was totally controlled in two patients, and significantly improved in one patient. One patient responded only moderately to treatment. Side effects included reversible renal toxicity in one patient. ***Conclusion:*** This report suggests that oral cyclosporine is effective in severe AKC.

Scientific Poster 24
A Clinicohistopathologic Study of Cornea in Erythema Multiforme Major
Timothy T You, MD, Lexington, MA; R Nick Hogan, MD, PhD, Winchester, MA; Kevin R Yuhan, Philadelphia, PA; Claes H Dohlman, MD, PhD, Boston, MA

Purpose: Immunologic-based bullous changes of the conjunctiva and skin occur in erythema multiforme major, but it is unknown if the cornea is damaged by similar processes. ***Methods:*** Clinical corneal changes are correlated with their histologic counterparts by examining 12 diseased corneas and conjunctiva. ***Results:*** Superficial epithelial and anterior stromal disease, including epithelial keratopathy (75%), inflammatory pannus (92%), and extensive corneal neovascularization(75%) are the most common findings. ***Conclusion:*** This study represents the first histologic description of diseased cornea in Stevens-Johnson, and introduces the concept that corneal injury is not simply secondary to conjunctival scarring.

Scientific Poster 25
Angle Regularity Index (ARI): A New Parameter of Corneal Endothelial Cell Morphology
Miguel J Maldonado, MD, Valencia, Spain; Maria E Díaz, PhD, Burjassot, Spain; Vicente Arnau, PhD, Burjasot, Spain; Enrique España, MD, Valencia, Spain; Juan Cano-Parra, MD, Barcelona, Spain; Angel L Cisneros, MD, Valencia, Spain; José Menezo, MD, Valencia, Spain

Purpose: To develop a new index of endothelial cell morphology based on the regularity of the angles determined by cell boundaries at the apical intersections. ***Methods:*** The endothelium of 20 normal and 40 abnormal corneas was studied with a specular microscope. ARI was calculated as the pooled standard deviation of the angles of intersection at the apices. ***Results:*** Mean ARI was 16.7 in the normal corneas and 18.0 in the abnormal corneas ($p = .01$). ARI correlated better with pleomorphism ($r = .41$) than with polymegethism ($r = .24$) indices. None of the normal corneas had ARI exceeding 17.7. ***Conclusion:*** ARI appears to be a useful indicator of endothelial cell morphology.

Scientific Poster 26
Efficacy of Peripheral Corneal Grafts in Peripheral Thinning Disorders of the Cornea
Aashish K Bansal, MD, Hyderabad, India; David B Cano, MD, West Palm Beach, FL

Purpose: To study the therapeutic, tectonic and refractive results of peripheral grafts in peripheral corneal thinning disorders. ***Methods:*** Retrospective analysis of eleven peripheral grafts (annular, oval or crown) performed for impending or actual perforation in ulcerative and degenerative diseases of peripheral cornea. ***Results:*** Progression of disease stopped and graft healed in 10 (91.1%) cases. In one case graft necrosed. Best corrected vision improved in 9 (82%) cases and 9(82%) cases had a vision of ≥20/100 post op. with contact lenses or glasses. ***Conclusion:*** Peripheral corneal grafts give good therapeutic, tectonic and refractive results in peripheral corneal thinning disorders.

Scientific Poster 27
Diagnosis of Chronic *C. Trachomatis* Conjunctivitis by a Luminometric Gene Probe Assay
Kathrin Engelmann, MD, Hamburg, Germany; Alexander A Bialasiewicz, MD, Hamburg, Germany; Ulrich Schaudig, MD, Hamburg, Germany

Purpose: To study an inexpensive hybridization technique for the diagnosis of chlamydial infections pretreated with antibiotics. ***Methods:*** One hundred and fifty-five conjunctival smears of 106 patients were tested by cell culture and hybridization of chlamydial rRNA with homologous DNA after cellular lysis.

*The presenter has a financial interest in the subject matter of the presentation. See page 345 for additional information.

Participant *Index*

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American Academy of Ophthalmology Centennial Annual Meeting Evaluation

DUE DATE: December 2, 1996. Fax forms toll-free to 1-800-935-3035: DO NOT USE A COVER SHEET, DO NOT REDUCE IN SIZE. Or: mail to AAO, Planning and Research Unit, P.O. Box 7424, San Francisco, CA 94120, to be received by the due date.

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Shade circles like this: ●
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Registration category:

- ○ Member Ophthalmologist-USA
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Number of Annual Meetings attended

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Mark your MAIN REASON for attending the Annual Meeting:

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- ○ Subspecialty Day Meetings
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- ○ Friday (10/25) Subspecialty Day
- ○ Saturday (10/26) Subspecialty Day
- ○ Sunday (10/27)
- ○ Monday (10/28)
- ○ Tuesday (10/29)
- ○ Wednesday (10/30)
- ○ Thursday (10/31)

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○○○○	Subspecialty Day: Progress in Glaucoma	○○○○
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○○○○	Subspecialty Day: Vitreoretinal Frontiers	○○○○
○○○○	Symposia	○○○○
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