



FINAL PROGRAM



AMERICAN ACADEMY OF OPHTHALMOLOGY
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Final Program

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CONTENTS:

- 9 Dear Colleagues
- 13 Letter from President Clinton
- 15 1996 Board of Trustees
- 21 The Council
- 27 Diabetes 2000
- 31 Meeting Overview
- 35 Academy Childcare Form
- 37 Academy Resource Center
- 45 Maps and Floor Plans
- 57 Registration and Housing Information
 - 61 Hotel Map
 - 62 Hotel List
 - 63 Shuttle Schedule
- 65 Meeting Information
 - 65 Official Notices
 - 65 Academy Childcare
 - 66 CME Credit
 - 67 Meeting Services
 - 68 Program Participant Information
 - 69 Spouse & Guest Program
 - 69 Subspecialty Day
 - 70 Transportation
 - 72 1996 Ophthalmic Corporate Sponsors
- 74 Awards
 - 74 Message from President
 - 75 Guests of Honor
 - 78 Special Recognition Award
 - 79 Distinguished Service Award
 - 81 International Blindness Prevention Award
 - 81 Outstanding Humanitarian Service Award
 - 83 Honor Awards
- 88 Program-in-Brief
- 91 Special Meetings and Events
- 98 Symposia
- 114 Free Paper Sessions
- 139 Scientific Posters
- 190 Scientific Exhibits
- 191 Technology Pavilion
 - 192 Office of the Future
 - 194 Education Technology Exhibits
- 196 Video Program
 - 197 Program Schedule
 - 203 Abstracts
- 207 Instruction Course Program
 - 208 Course Ticket Policies and Instructions
 - 209 Instruction Course Daily Schedule
 - 221 Course Listings by Topic
- 273 Skills Transfer Program
 - 274 Course Contributors
 - 275 Skills Transfer Course Daily Schedule
 - 278 Course Listings by Topic
- 295 Historical Posters
- 304 Informational Posters & Exhibits
- 308 Technical Exhibits
 - 308 Technical Exhibitors
 - 322 Product Category Index
- 332 Related and Alumni Groups
- 344 Future Meetings
- 345 Participant Financial Disclosure Index
- 349 Participant Index



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Maps and Floor Plans



<u>Page #</u>	<u>Area</u>
52	Academy Art Exhibit
48	Academy Resource Center
52	Audio and Video Tape Sales
52	Centennial Sales Booth
51 - 52	Centennial Video Wall
48	Education Technology Exhibits
46, 55	First Aid
50	Historical Posters
48	Informational Exhibits and Posters
47, 53 - 55	Instruction Course Rooms
50	Instruction Course Ticket Sales
52	Meeting Information
52	Message Center
48	Museum "Office of the Past"
53	News Room
50	Onsite Registration
51 - 52	Ophthalmology Journal Office
51	Preregistration
53	Professional Choices
46, 50	Restaurants
48	Scientific Exhibits
50	Scientific Posters
46, 53	Scientific Sessions
47, 52	Skills Transfer Course Labs
50 - 51	Skills Transfer Laser Labs
51	Speaker Ready Room
50 - 51	Spouse/Guest Registration
46, 48-51	Technical Exhibits
51	Technical Exhibitor Registration
48	Technology Pavilion "Office of the Future"
47	Video Program Theater
49	Web Browsing Stations

Scientific Posters

SESSION ONE - SUNDAY AND MONDAY

al; trauma secondary to dust with fungal keratitis ($p < 0.05$). Infiltrate area $> 25 \text{ mm}^2$ 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 Karcioğlu, 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 Yuhau, 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, Burjassot, 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 polymegathism ($r = .24$) 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 $\geq 20/100$ 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.

Participant Index

A

A	Anschuetz, T	261	Barak, M	278	Bilyk, JR	290	Brown, S	190
Aaberg Sr, TM	Antoszyk, AN	136	Barille, GR	126	Binder, PS	102, 263,	Brown, SL	149, 306
160, 269, 297	Apple, DJ	110, 165, 300	Barnebey, H	234, 283, 285		290-291	Brown, SM	113
Abad, J	Araullo-Cruz, T	169	Barnes, DK	305	Biondini, AR	115	Browning, DJ	117, 136
Abbott, RL	Arbelaez, MC	291	Barnier, K	205	Birt, CM	134, 173	Brownstein, S	104-105,
Abel Jr, R	Arbisser, LB	278	Baron, EM	290	Biswas, J	154		121
Abelson, MB	Arellanes, L	172, 176	Barr, CC	267	Biswas, P		Brucker, AJ	112-113,
Abrahami, S	Arenas, E	306	Barraquer, CJ	222, 261	Bitowt, J	305		135, 294
Abrahams, I	Arevalo, J	137, 261, 302	Barraquer, JJ	154	Blackman, H	238	Brunzini, M	144
Abrams, GW	Arffa, RC	167, 263	Barraza, AI	306	Blair, NP	186	Brunzini, R	144
	Argento, CJ	115	Barrett, GD	278	Blais, BR	105	Bryant, C	306
Abramson, DH	Argus, WA	134	Bartley, GB	132, 153, 298	Blankenagel, A	152	Bucci Jr, FA	278
	Armstrong, JD	126	Bartsch, D	118, 162	Blankenship, GW	103,	Buckley, EG	106, 128,
Abreu, MM	Arnau, V	143	Bassi, FH	189		117, 267		251-252
Abu El-Asrar, AM	Arnold, AC	241	Bassiouny, H	231	Blecher, MH	278	Bueno, SM	151
Acar, MA	Arnold, BJ	256	Basti, S	122, 128, 223	Blodi, B	239, 264-266	Buerger Jr, GF	297, 307
Adenis, J	Arnold, PN	259-260	Bateman, J	84, 157, 301	Bloom, PA	174	Bullock, JD	98, 114,
Agapitos, PJ	Arribas, NP	179	Bates, D	135, 189	Bloome, MA	294		146, 152
Agarwal, H	Arroyo, JG	280	Baudouin, C	149, 166, 171	Blum, LR	153, 177	Buncic, J	301
Agrawal, R	Arroyo, M	254	Baum, J	132, 226	Blumenkranz, MS	84,	Buratto, L	264, 291
Ahmadieh, H	Arsan, AK	187	Baumal, CR	188		102, 224, 267	Burch, SE	135
Ahmady, M	Arterberry, JF	287, 289	Bautista, N	176	Bobrow, JC	98, 114, 123	Burde, RM	240, 299
Ahmed, I	Asbell, PA	137, 159,	Bayer, AU	130	Boccatto, P	180	Burgess, MC	109
Ai, E		179, 286	Bayer, L	121	Boeglin, RJ	237	Burgess, SK	123
Aiello, L	Asenblad, N	130	Baylis, HI	190, 246,	Boerner, CF	224	Burk, L	229
Aiello, LM	Ashburn Jr, FS	305		250, 286	Bohigian, GM	176, 244	Burk, RW	163
Ainbinder, D	Ashraf, M	185	Bearse Jr, MA	160	Boldrey, EE	264	Burnier Jr, MN	132
Ainsworth, RL	Ashy, EE	109	Beatie, CD	230	Boniuk, V	173	Burris, TE	159
Akashi, RH	Aslan, BS	167	Beausencourt, E	186	Borchert, MS	123	Buscemi, M	177
Akata, R	Assil, KK	116, 229,	Bechert, CH	224	Bores, LD	280	Busin, M	142, 167, 263
Akduman, L		262, 292	Bechtolite, A	171	Borodkin, MJ	137	Busse, BJ	190
Aker, AB	Astirakakis, NI	129	Beck, A	233	Borover, VVA	255, 260	Butrus, SI	227
Akova, YA	Atebara, NH	125	Becker, BB	289	Borrillo, JL	178	Buxton, DF	227, 263, 282
Akpek, EK	Atilla, H	181	Beckett, BB	306	Borruat, F	151-152	Buzard, KA	226, 262-263,
Al Hussein, HM	Auburger, G	152	Beckman, H	112, 134	Boscher, C	206		291-292
Al Hussein, J	Auffarth, GU	152	Beckman, KA	292	Bosniak, SL	255	Buzney, SM	116, 163, 294
Al Mansouri, SM	Augsburger, JJ	171,	Beckwith, LC	306	Bouchard, CS	282	Byer, NE	126, 271
Al Mesfer, S		174, 179, 243	Becquet, F	166, 171	Bourne, WM	122	Byrne Jr, J	221
Al-Hazzaa, SF	Augustat, EC	190	Bedrossian Jr, EH	85, 287	Bouvier, M	307	Byrne, S	223, 265,
Al-Hemidan, A	Augustin, AJ	155		289	Bowers, RA	278		268, 307
Al-Kaff, AS	Auran, J	144	Belfort Jr, R	151	Boyce, VS	306	Byron, HM	260
Al-Kharashi, SA	Avalos, G	172	Belin, MW	103	Boyd, BF	92-93	C	
Al-Omar, O	Avery, K	306	Bellmann, C	163	Boyd-Monk, HG	109	Cadena, AM	305
Al-Rajhi, AA	Avila, MP	265	Bellows, A	84, 147	Bozza, S	159	Cahill, KV	246
Alarcon-Segovia, D	Avilla, CW	100	Bellows, RT	305	Bradshaw, TJ	96-97, 306	Caldwell, DR	300
Albayrak, L	Awad, AH	123, 156	Belmont, SC	263, 292	Brancato, LJ	305	Callahan, MA	100
Albert, DM	Awh, CC	267	Belyea, D	237	Brancato, R	158-159, 162	Camara, JG	305
Alcorn, DM	Ayala, R	169	Benarafa, HT	151	Brandt, J	85, 233, 284	Cameron, L	305
Alexander, C	Azar, DT	129, 185,	Bendel, RE	150, 173	Brant, JR	306	Camesasca, FI	140, 177,
Alexander, J		262-264	Benenson, IL	205	Braun, MG	144		223
Alezzandrini Jr, AA	Azarmina, M	150	Bennett, M	305	Brauweiler, PH	279	Camp, MW	145, 189
Alfonso, EC	Aziz, AA	167	Benson, WE	267	Breinin, GM	299	Campbell, R	146
227-228, 281-282	Azuara-Blanco, A	174	Berdj, GJ	227	Bressler, NM	267, 294	Campbell, RC	286
Alford, MA	Azuma, NF	156, 182	Berestka, JS	278	Bressler, SB	267, 294	Campochiaro, PA	267
Alich, K	Azzolini, M	138	Berg, E	284	Breve, M	138	Camras, CB	130, 284-285
Alldredge Jr, O	B		Berger, BB	238	Brick, DC	259	Candino MD, M	177
Alleman, N	Babnic, F	177	Bergey, DM	305	Brightbill, FS	111	Cano, DB	143
Allen, JR	Bacharach, J	283	Bergey, R	305	Brignole, F	166	Cano-Parra, J	143
Allen Jr, AW	Badr, IA	176	Bergstrom, TJ	232	Brindley, GO	300	Cantor, LB	134
Allingham, R	Badrinath, SS	118, 154	Berhane, E	305	Brint, SF	103, 115, 128,	Cantrill, HL	136
Alm, A	Baek, N	171	Berkeley, RG	115		223, 261, 264, 291	Capone Jr, A	160, 269
Alpins, NA	Baerveldt, G	189, 235, 285	Berlin, AJ	93, 207, 247	Brinton, DA	225, 265	Caprioli, J	135, 237
Alvarado, JA	Bagheri, A	150	Berman, AJ	186	Brod, RD	270	Cardillo, JA	164-165, 182
Alward, WM	Baikoff, G	230, 261	Berman, E	239, 285	Brodell, LP	226	Carey, T	190
Amato, MM	Baker, A	150, 163	Berman, M	185	Brodell, RT	226	Carl, PD	305
Anand, R	Baker, A	306	Bernstein, P	260	Brodie, SE	107, 118	Carlson, AN	204
Anders, G	Baker, DJ	192	Berrocal, MH	294	Brodsky, MC	252, 285	Caroline, PJ	101
Anders, N	Baker, FH	252-253	Berry, M	137	Broocker, G	141	Carones, F	158-159
Anderson, C	Baker, JD	269, 271	Betchkal, JA	95	Brookner, AR	203	Carpio, G	115
Anderson, C	Baker, RS	249	Bettman Sr, JW	256	Brooks, S	187, 189	Carreno, E	222
Anderson, KL	Baker, SS	221, 279	Beuerman, RW	133	Brown, BR	306	Carroll, GS	193
Anderson, L	Bakewell, BK	172	Bhende, M	161-162	Brown, DM	271	Carroll, RP	249
Anderson, RL	Balachandran, R	307	Bhende MD, PS	118, 161	Brown, E	123	Carter, JE	240, 243
	Balakrishnan, P	307	Bialasiewicz, AA	133,	Brown, E	255, 267,	Carty Jr, JB	222
Andracchi, S	Balazsi, GA	261		143, 153	Brown, GC	270, 294	Carvalho, CA	152
Angeli, C	Balkar, RJ	306	Bierly, J	271		99, 306	Casebeer, J	260, 263-264,
Angrist, RC	Bandello, FM	162, 179	Bierstock, SR	280	Brown, HS	168		290-291
Anis, AY	Banker, AS	136	Biesman, BS	190, 249, 286	Brown Jr, J	255	Cashwell Jr, L	241
Ansari, RR	Bansal, AK	143	Billingsley, AT	168	Brown, MM	221, 279		

Participant Index

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Participant Index

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Participant Index

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Participant Index

