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FOCUS: INFLAMMATORY EYE DISEASE IN CHILDREN

ORIGINAL ARTICLES

- 757 Factors related to severe uveitis at diagnosis in children with juvenile idiopathic arthritis in a screening program. Audrey Chia, FRACO, Vickie Lee, FRCOphth, Elizabeth M. Graham, FRCOphth, and Clive Edelsten, FRCOphth
The authors sought to identify factors associated with severe uveitis at diagnosis of eye disease in children with juvenile idiopathic arthritis, and to identify temporal changes in findings associated with screening during the years 1986-2000. The authors found that male children are more likely than female children to have severe uveitis at diagnosis. The proportion of children with severe uveitis at diagnosis has not changed since current screening guidelines have been widely publicized, suggesting the need for refinements in screening procedures to target high-risk children with increased surveillance.

- 763 Laser flare photometry and complications of chronic uveitis in children. Janet L. Davis, MD, Leonardo M. Ducanay, MD, Gary N. Holland, MD, Audina M. Berrocal, MD, Michael J. Giese, OD, PhD, and William J. Feuer, MS
The authors investigated possible relationships between laser flare photometry values, complications of uveitis, and outcomes in children with chronic uveitis. They found a positive relationship between laser flare photometry values and the prevalence of complications of uveitis in children. Laser flare photometry provides a novel way to monitor children with uveitis.

- 772 Surgical management of cataracts in children with juvenile rheumatoid arthritis-associated uveitis. Linda A. Lam, MD, Careen Y. Lowder, MD, PhD, George Baerveldt, MD, Scott D. Smith, MD, and Elias I. Traboulsi, MD
The authors evaluated the outcomes of cataract surgery with posterior chamber intraocular lens implant in children with juvenile rheumatoid arthritis-associated uveitis. Children with juvenile rheumatoid arthritis-associated uveitis can demonstrate favorable surgical outcomes if they have adequate long-term preoperative and postoperative control of intraocular inflammation.

- 779 Ophthalmic outcomes after prenatal and postnatal treatment of congenital toxoplasmosis. Antoine P. Brézin, MD, PhD, Philippe Thulliez, MD, Jacques Courreur, MD, Roberto Nobré, MD, Rima McLeod, MD, and Marilyn B. Mets, MD
The authors describe the ophthalmologic outcomes of 18 cases of congenital toxoplasmosis treated prenatally and postnatally. In these children at a high risk for congenital toxoplasmic retinochoroiditis, a favorable visual outcome was observed in 17 of the 18 cases.

- 785 Assessment of visual function after corneal transplantation: the quality of life and psychometric assessment after corneal transplantation (Q-PACT) study. Flavia Mendes, MD, Debra A. Schaumberg, ScD, OD, MPH, Sum Navon, MD, PhD, Roger Steinert, MD, Joel Sugar, MD, Edward J. Holland, MD, and M. Reza Dana, MD, MPH
This prospective study of visual function outcomes after corneal transplantation demonstrates that most patients experience an improvement in visual function, which is related to vision in the best seeing eye but not to postoperative visual acuity in the grafted eye.
What is the risk of developing pigmentary glaucoma from pigment dispersion syndrome? Yasmin Siddiqui, MD, Richard D. Ten Haken, MD, J. Douglas Cameron, MD, David O. Hodge, MS, and Douglas H. Johnson, MD

The risk of developing pigmentary glaucoma from pigment dispersion syndrome was 10% at 5 years and 15% at 15 years. An intraocular pressure greater than 21 mm Hg at initial examination was associated with an increased risk of conversion.

Conjunctival melanoma: is it increasing in the United States? Guo-Pei Yu, MD, MPH, Dan-Nin Hu, MD, Steven McCormick, MD, and Paul T. Finger, MD

Conjunctival melanoma incidence rate for white men increased 302% from 1973 to 1999, while the rate appears stable among white women. The changing incidence patterns coincide with that seen in cutaneous melanoma.

Surgical technique for control of postkeratoplasty myopia, astigmatism, and anisometropia. Dilek Dursun, MD, Richard K. Forster, MD, and William J. Feuer, MS

The authors previously demonstrated that selective suture removal reduces keratoplasty astigmatism. However, a myopic shift was induced with the increasing number of interrupted sutures removed. This study is an attempt to determine the effects of a modified surgical technique on postkeratoplasty myopia, astigmatism, and anisometropia.

Is reading disability likely to interfere with glaucoma screening of adults using frequency-doubling technology perimetry? Jerri D. Edwards, PhD, Julio de Leon-Ortega, MD, William H. Bearden, MD, Meredith E. Rumble, BS, and Christopher A. Girkin, MD

Research has indicated that children with reading disability have frequency doubling technology (FDT) perimetry deficits. Considering the usefulness of FDT perimetry as a screening device for glaucomatous optic neuropathy, the possibility of whether or not adults with reading disability also exhibit such deficits was examined.

The Ahmed drainage implant in the treatment of pediatric glaucoma. Yair Morad, MD, Craig E. Donaldson, FRACO, FRACS, Yuri M. Kim, MD, Mohamed Abdolell, MSc, and Alex V. Levin, MD, MHSc, FRCS

In the largest series published to date, the Ahmed Glaucoma Valve implantation seems to be an effective treatment for pediatric glaucoma, although patients frequently require antiglaucoma medications. However, the high rate of potentially sight-threatening postoperative complications warrants ongoing close follow-up.


The high prevalence of pseudoexfoliation (PXF) in a rural population of southern India suggests the need for adequate preoperative care to identify the presence of PXF that may potentially lead to complications related to cataract surgery or glaucoma.

Analysis of macular volume in normal and glaucomatous eyes using optical coherence tomography. David E. Lederer, MD, Joel S. Schuman, MD, Ellen Hertzmark, MA, James Helitzer, MD, Leonardo J. Velazquez, MD, James G. Fujimoto, PhD, and Cynthia Mattox, MD

A case control study was conducted to evaluate macular volume in normal and glaucomatous eyes using optical coherence tomography. The authors’ results demonstrate a trend of decreasing macular volume in eyes with more advanced disease.

Relationship between human leukocyte antigen status and proliferative diabetic retinopathy in patients with younger-onset Type 1 diabetes mellitus. Tatsuya Mimura, MD, Hideharu Funatsu, MD, Yasuko Uchigata, MD, Shigehiko Kitano, MD, Hitotaka Noma, MD, Erika
Shimizu, MD, Yasuhiro Konno, MD, Shiro Amano, MD, Makoto Araje, MD, Osamu Yoshino, MD, Yasuhiko Iwamoto, MD, and Sadao Hori, MD
The authors investigated the relationship between HLA status and proliferative diabetic retinopathy in younger Type 1 diabetic patients. The frequency of HLA-B62, Cw4, and DQ4 was significantly higher in the patients with proliferative diabetic retinopathy than in the patients without retinopathy. These HLA types may be useful for predicting the prognosis of retinopathy in patients with younger-onset Type 1 diabetes.

Is there an association between cataract surgery and age-related macular degeneration? Data from three population-based studies. Ellen E. Freeman, MSc, Beatriz Munoz, MSc, Sheila K. West, PhD, James M. Tielsch, PhD, and Oliver D. Schein, MD, MPH
Prior cataract surgery was associated with an increased prevalence of late age-related macular degeneration (AMD) in three population-based studies. Combining the three populations, the odds ratio for late AMD following cataract surgery was 1.7 (95% CI, 1.1-2.6) after controlling for age, race, gender, and smoking.

Selective occlusion of subfoveal choroidal neovascularization in pathologic myopia using a new technique of ingrowth site treatment. Rogério A. Costa, MD, Daniela Calucci, COMT, Luiz F. Teixeira, MD, Jose A. Cardillo, MD, and Pedro P. Bonomo, MD
Selective choroidal neovascularization occlusion in pathologic myopia was achieved after a novel treatment we called neovascular ingrowth site photothrombosis. Rapid resolution of the exudative manifestations was disclosed by optical coherence tomography with 5 out of 6 patients presenting vision improvement 12 months after treatment.

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Eye findings of diffuse unilateral subacute neuroretinitis and multiple choroidal infiltrates associated with neural larva migrans due to Baylisascaris procyonis. Marilyn Baird Mets, MD, A. Gwendolyn Noble, MD, PhD, Surendra Basti, MD, Patrick Gavin, MD, A. Todd Davis, MD, Stanford T. Shulman, MD, and Kevin R. Kazacos, DVM, PhD

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Removal of the internal limiting membrane under perfluorocarbon liquid to treat macular-hole-associated
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