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The main importance of this study is the evidence of the superiority of autologous serum drops artificial tears for corneal wound healing. It is the first prospective, randomized study showing the positive effect of serum on corneal wound closure especially for the postoperative situation in diabetic patients.

- 212 Epidemiological characteristics of a Chicago-area *Acanthamoeba* keratitis outbreak. *Charlotte E. Joslin, OD, Elmer Y. Tu, MD, Timothy T. McMahon, OD, Doug J. Passaro, MD, MPH, Leslie T. Stayner, PhD, and Joel Sugar, MD*

A dramatic increase in *Acanthamoeba* keratitis (AK) occurred in Chicago from June 2003 to November 2005. Geographical case analysis indicates a nonrandom distribution and marked increase when compared against an historical period. We hypothesize that recent US Environmental Protection Agency regulations reducing the allowable amounts of carcinogenic disinfection by-products in the water supply may have shifted the microbial risk balance, effectively increasing the AK risk. If we are correct, clinicians need to be alert to a possible national increase in AK.

- 218 Stereopsis in refractive surgery. *Caitriona Kirwan, MRCOphth, and Michael O'Keefe, FRCS*

A strong correlation was found between anisometropia and loss of stereopsis in myopic refractive surgery patients, but interpatient variability was observed. Consideration of distance uncorrected visual acuity (UCVA) in the un-

treated eye aided in predicting stereopsis outcome. Sequential bilateral treatment does not have a deleterious effect on stereopsis. Adaptation to monovision correction was associated with improvement in stereopsis, with preoperative fine stereopsis regained in successful cases.

- 223 Health literacy and adherence to glaucoma therapy. *Kelly W. Muir, MD, Cecile Santiago-Turla, MD, Sandra S. Stinnett, DrPH, Leon W. Herndon, MD, R. Rand Allingham, MD, Pratap Challa, MD, and Paul P. Lee, MD, JD*

- 227 Size of corneal topographic effective optical zone: Comparison of standard and customized myopic laser in situ keratomileusis. *Louis Racine, MD, Li Wang, MD, PhD, and Douglas D. Koch, MD*

Effective optical zone (EOZ), defined as the area outlined by a change of 0.5 diopters from the power at the pupil center, was compared in 41 eyes of 25 consecutive patients who had CustomVue LASIK (CV LASIK) and 41 eyes of 23 patients who had standard LASIK. The EOZ was larger after CV LASIK than after conventional LASIK. In eyes with spherical correction, the preoperative EOZ was increased by CV LASIK and reduced by standard LASIK.

- 233 Postmortem orbital findings in shaken baby syndrome. *Tamara Wygnanski-Jaffe, MD, Alex V. Levin, MD, MHSc, FRCSC, Ayad Shafiq, MD, Charles Smith, MD, Robert W. Enzenauer, MD, James E. Elder, MBBS, FRANZCO, J. Donald Morin, MD, FRCSC, Derek Stephens, MSc, and Eshetu Atenafu, MSc*

We conducted a retrospective review of the postmortem orbital findings in 18 victims of Shaken Baby Syndrome and 18 cases of fatal accidental head trauma using a novel technique of exenteration of the orbital tissues and globe *en bloc*. We report differences in the patterns of orbital

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