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REPRODUCIBIUTY OF LASER DOPPLER FLOWMETERY FOR ONH BLOOD FLOW MEASUREMENT D.S.P. O'Brart, L.V.Mavroudis, E.M.Kohner. (St. Thomas' Hospital, UMDS, London, U.K.)

<u>Purpose:</u> To evaluate the reproducibility of measurements in the parameters of Velocity (Vel), Volume (Vol) and Flow (Fl) of the optic nerve head blood flow using the laser Doppler flowmeter (Occulix 5000).

Mefliods: Seven eyes of seven normal volunteers (4 male 3 female, age range 25-31 years) underwent laser Doppler flowmetry. Three points at the temporal rim of the optic nerve head free from any visible blood vessels were identified. The parameters of velocity, volume and flow were measured with the laser Doppler flowmeter (Occulix 5000). A minimum of twenty seconds measurements were obtained in four sessions separated by one week period. The subject's IOP, BP and pulse rate was also measured in each visit.

Results: The coefficient of variation (CV%) for the parameter of flow of the optic disk was 5.8 (range 3.4 - 8.8) and there was no statistically significant difference in the perfilsion pressure between visits.

Conclusion: Laser Doppler flowmetry provides highly reproducible measurements of optic nerve head blood flow. It can be a valuable tool in the evaluation of ONHBF relating to glaucoma.

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ACANTAMOEBA KERATITIS-a case report Vesna Celeva, M. Antova Velevska, University Eye Hospital, Skopje, FYR of Macedonia A.Bron, Infirmary Eye Hospital, Oxford, Umted Kingdom

Acanthamoeba keratitis still is a problem in ophthalmology becouse of diagnostic and therapeutic difficulties. To date, Acanthamoeba keratitis is an increasing pathology becouse of the more widespread use of the contact lenses.

The patient was 22 year old myopic student, soft lens wearer. He commplained of progressive pain and redness in his left eye since a week. The pacient was unsuccessfuly treated with topical antibiotics and steroids, including antiviral and antihistamininics. After three months, he complained redness and photophobia with comeal ulcer and Acantamoeba keratitis was suspected.

Methods: the essential parasitological diagnosis was confirmed after comeal scarping inoculation onto agar with lown of Eschericia coli and morphological identification and according to the Pussard and Pons classification were done. A therapy with 0,02 PHMB for three months with prolonged decreasing dosage eas begun with resolution of the infection.

Conclusion:success factor for diagnosis and therapy are early identification of the parasite and the use of intensive terapy with 0,02%PHMB for considerable period of time.