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Vienna 2008
8th EURETINA Congress

Free Paper Session

Surgical Retina & Macular Surgery I

Friday 23 May 16:30 - 18:00

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Evaluation of results of macular surgery: Role of microperimetry-related OCT imaging study

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Purpose To study retinal visual and functional parameters on macular diseases treated with surgery, supported by an intraretinal edema OCT evaluation. **Setting** Visual Acuity, OCT imaging analysis and Microperimetry evaluation on patients affected by different macular diseases treated with surgery. **Method** 30 eyes of 28 consecutive patients were included in this observational prospective study (mean follow up 5.6 months). We performed BCVA, complete ophthalmological examination, microperimetry and OCT with a dedicated software able to quantify in μm^2 different edema patterns. All clinical evaluations were performed at day 0 and on each follow up visit at months 1-3-6. Retinal sensitivity variation related to different macular pathologies were studied and correlated. **Results** We treated 14 eyes with macular pucker, 10 eyes with macular hole, 6 eyes with diabetic macular edema. Overall post treatment mean visual acuity improvement was 0.32 ± 0.08 ; mean retinal sensitivity increase was 7.8 ± 0.9 dB. OCT analysis on considered pathologies quantified in μm^2 (from 738943 μm^2 minimum to 1751814 μm^2 maximum) different edema patterns: diffuse edema, cystoid edema involving outer retinal layers, cystoid edema involving inner retinal layers, serous foveal detachment. The study highlighted significant correlation between functional and visual parameters vs macular edema variation on studied pathologies. **Conclusions** Functional retinal evaluation, integrating visual acuity parameters, represents nowadays a predictive factor for post surgical visual recovery on different macular disease. Macular edema characteristics, intraretinal cysts number, dimension in μm^2 and position are determining for different results on retinal sensibility and VA recovery. The authors declare no financial interests on the study performed



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