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Anatomic and functional evaluation of optic disk and retinal nerve fiber layer after posterior capsulotomy.

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Purpose: To evaluate the findings of frequency doubling technology perimetry(FDT), scanning laser polarimetry(GDx) and confocal scanning laser ophthalmoscopy(HRT) after posterior capsulotomy in patients treated or not with apraclonidine.

Methods: 55 pseudophaciks eyes with posterior capsulotomy were submitted posterior capsulotomy with laser Yag.The patients were selected of random form. Group I received topic apraclonidine0,5% before procedure and group II(control) had placebo. Intraocular pressure (IOP) was taken by hidden form, before procedure and after 10`, 1h, 2h and 1 week. The FDT, GDx and HRT were performed between 1 and 2h after procedure and by the end of first week. Paqchymeter(P) and specular microscopy(SM) were performed before and after procedure. Statistical analysis: Student's t test, Fisher's exact test, and Repeated measures ANOVA.

Results: There wasn't statistical difference for age(p=0,322), color(0,238), sex (p=0,789), energy(p=0,521), SM(p=0,751) and IOP before procedure between groups. Postoperatively, IOP did not differ statistically at 10 minutes ,2h and 1 week between groups. After 1 hour, there was a statistically significant difference in IOP values between treated group(12,8±2,7mmHg) and the control (14,6±2,6mmHg). After 1 week, in both groups, there was increase in FDT MD (p=0,011), GDx Superior ratio (p=0,046), HRT Rim volume (p=0,048) and HRT Reference height (p=0,030). Only in controls, measurements of 1 hour and week statistically differed for HRT disk area (p=0,040), HRT cup volume (p=0,035), HRT linear cup/disk ratio (p=0,050) maximum cup depth (p=0,047) and HRT cup shape measure (p=0,013).

Conclusion: FDT, GDx, HRT showed statistically significant differences after posterior capsulotomy, mainly in the control group.