

( ) R1 ( ) R2 ( ) R3 ( ) PG0 ( ) PG1 ( ) Estagiário ( ) Tecnólogo ( )  
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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 pachymetry (P), specular microscopy (SM), frequency doubling technology perimetry (FDT), scanning laser polarimetry (GDx) and confocal scanning laser ophthalmoscopy (HRT) after posterior capsulotomy in pseudophaciks eyes.

**Method:** 55 normal pseudophaciks eyes were submitted posterior capsulotomy with laser Yag. Intraocular pressure (IOP) was taken by hidden form, before procedure and after 10', 1h, 2h and 1 week. The FDT, GDx and HRT II were performed between 1 and 2h after procedure and by the end of first week. Pachymetry (P) and specular microscopy (SM) were performed before and after Yag capsulotomy. Statistical analysis: Student's test and ANOVA.

**Result:** 52 white patients and 3 blacks, the average for age was (64,8 ±14,5), energy (1,41 ±0,45). There was no difference significant for SM (p=0,682) and FDT, PSD (p=0,311). After 1 hour, there was a statistically significant increase in IOP (p=0,001) and in pachymetry values (p=0,001). After 1 week, there was increase in FDT, MD (p=0,012); Gdx, Superior Ratio (p=0,046); HRT, Rim Volume (p=0,046), Reference Height (p=0,029), Mean Cup Depth (p=0,005) and Cup Shape Measure (p=0,001). No differences were formed for IOP and pachymetry.

**Conclusion:** Pachymetry, FDT, GDx and HRT showed statistically significant differences after posterior capsulotomy.