

R1  R2  R3  PG0  PG1  Estagiário  Tecnólogo   
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**Service (sector) Glaucoma N° CEP**

**COMPARISSON OF OCULAR HYPOTENSIVE EFFECT OF A SINGLE DOSE OF BRINZOLAMIDE Vs. DORZOLAMIDE IN PRIMARY OPEN ANGLE GLAUCOMA AND OCULAR HYPERTENSION.**

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**PURPOSE:** To compare short term hypotensive effect and comfort of one single drop of 1% brinzolamide versus one single drop of 2% dorzolamide in patients with diagnosis of primary open angle glaucoma (POAG) or ocular hypertension (OH). **PATIENTS AND METHODS:** Seventeen patients were included. One eye received one drop of brinzolamide 1% susp. and the other eye received one drop of dorzolamide 2% sol. After receiving eye drops several subsequent IOP measures were obtained in the same way and schedule than in pre-medication IOP curve (Post-medication IOP curve).

**RESULTS:** Seventeen patients completed the study. There was extremely significant difference (two tailed  $p < 0,0001$ ) between mean IOP pre-medication and mean IOP post-medication for both groups (two tailed  $p < 0,0001$ ). Percentage variation from mean IOP pre-medication to mean IOP post-medication was considered significant (two tailed  $p = 0,0305$ ). When compared percentage variation between both groups at each time point from 09:30, statistically significant differences were found at 10:00 with two tailed  $p=0,0215$ , at 11:00 ( two tailed  $p=0,0386$ ) and at 14:00 ( two tailed  $p=0,0479$ ). No statistically significant difference was found between groups at 09:30, 12:00 and 16:00. **CONCLUSION:** Despite of the difference between hypotensive activity of dorzolamide vs. brinzolamide, both drugs show significant IOP reduction from baseline, with the additional advantage of greater comfort with the second one.