

R1 R2 R3 PG0 PG1 Estagiário Tecnólogo PIBIC

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Service (sector)
Glaucoma

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Correlation between water drinking test outcomes and BODY MASS INDEX in patients with primary OPEN-ANGLE glaucoma

Background: To evaluate the correlation between the water drinking test (WDT) outcomes and body mass index (BMI) in primary open-angle glaucoma (POAG) patients. **Methods:** Forty-one POAG patients (41 eyes) under glaucoma treatment were enrolled in this study. After inclusion, patients underwent weight and height measurements. The WDT was performed consisting in a basal intraocular pressure (IOP) reading followed by ingestion of 1 liter of tap water in 5 minutes. Then IOP was measured 4 times at 15 minutes intervals. IOP peak was considered as the maximum value of the 4 measurements and IOP fluctuation as the difference between the peak and the basal IOP. **Results:** There were statistically significant correlations between the IOP fluctuation and the following baseline parameters: BMI, weight, height, cup to disk ratio and IOP at baseline. **Conclusions:** These data suggest that patient's individual characteristics, including BMI and weight, may influence the WDT results. Patients with higher BMI presented lower IOP fluctuation in the WDT.