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Service (sector) GlaucomaNº CEP

## **SELECTIVE LASER TRABECULOPLASTY FOR PRIMARY OPEN-ANGLE GLAUCOMA**

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**Purpose: To analyze the intraocular pressure (IOP) after selective laser trabeculoplasty (SLT) for primary open-angle glaucoma.**

**Methods:** Eighteen eyes of 18 patients with primary open-angle glaucoma were selected. The patients underwent ophthalmologic evaluation at preoperative and 1 hour, 2 hours, 1 day, 1 week and monthly after SLT. The SLT were performed in one eye of each patient using the Q-switched, frequency-doubled Nd:YAG laser – Coherent Selecta 7000. It was defined as success criteria a reduction in IOP equal or greater than 3 mmHg between pre and postoperative IOP after the first month of SLT. **Results:** There were no statistically significant differences between the IOP in the first two hours after SLT and preoperative level. From the first day after SLT, there was a reduction in IOP in comparison to preoperative IOP. In the 6th month, the mean reduction in IOP was 3.5 mmHg (16,2%) ( $P < 0.001$ ). The cumulative proportion surviving in the 12nd month was 0.26. The median survival time was 3 months. **Conclusion:** SLT appears to be a safe method with a fast onset of IOP-lowering effect but limited duration in primary open-angle glaucoma.