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## 90-degree vs 360-degree selective laser trabeculoplasty (SLT)

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**Purpose:** To compare the effect of 90- and 360-degree trabeculoplasty (SLT) as primary or supplement therapy in patients with glaucoma and ocular hypertension (OHT).

**Methods:** Patients (>30 years old) with OHT, primary open-angle glaucoma (OAG), pigmentary glaucoma, or pseudoexfoliative glaucoma were enrolled in a prospective randomized clinical trial. Patients were sequentially randomized to either 90- or 360-degree SLT. Their intraocular pressure (IOP) was monitored.

**Results:** The survival periods (in days) of the two extents (90 or 360 degrees) of treatment were not statistically significantly different ( $p = 0.85$ ), only pre- treatment IOP level could predict survival of treatment ( $p = 0.02$ ).

**Conclusions:** The 90-degree SLT is as effective as 360-degree SLT. Further studies are warranted to confirm the findings. High baseline IOP could be a factor that predicts treatment success.

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