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## Long term outcome of selective laser trabeculoplasty (SLT)

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**Statement of Problem:** SLT plays a major role in treating glaucoma patients, with increasing use as first line of management, for eyes with uncontrolled intraocular pressure (IOP) with maximal tolerated medical treatment when surgery is avoided, or as replacement to medical glaucoma. SLT effectiveness in reducing IOP is well known, though, its long-lasting effect is controversial.

**Methods:** Reporting our SLT long term results, retrospective review of patients underwent SLT 2011-2012 carried out in January 2017. SLT was considered successful when resulted in clinically significant IOP reduction (mostly IOP reduction  $\geq 3$  mmHg or  $\geq 15\%$ ) or reduction of glaucoma medication  $\geq 1$ , with stable condition without the need for further medical or surgical intervention. When further intervention carried out SLT was considered failure. Repeating SLT once more during follow up period was not considered as failure. Patients included are adult, with open angle glaucoma or angle closure glaucoma with patent peripheral iridotomies and open angle  $\geq 180^\circ$ .

**Results:** 191 eyes underwent  $360^\circ$ - $180^\circ$  SLT (80% had  $360^\circ$ ), with 79 mean number of shots and 0.5 mj/shot (mean). Baseline IOP was  $19.5 \pm 5.9$  mmHg on  $2.5 \pm 1.2$  glaucoma medications. Success rate was 75.4%, with reduction of IOP of  $4.2 \pm 6$  mmHg and  $1.08 \pm 1.1$  reduction of medications. Success rate had significant correlation with baseline IOP, number of medication and extension of treatment. During follow up period of  $49 \pm 14$  months, 13% (n=19) had SLT repeated one more time, at mean of 31.4 months (4-46) and 11% (n=16) needed intervention for uncontrolled glaucoma (medical or surgical) at 35 (25-54) months.

**Conclusions:** SLT has a good and sustained IOP reduction in Saudi population. Low rate of failure noted following initial success and occurred after 2 years of follow up repeating SLT was successful, independent of time interval.

## Biography

Leyla Ali Aljasim has completed her MBChB at Baghdad University, Baghdad, Iraq in 1990. She has also received Fellowship of the Royal College of Surgeon, Glasgow. She is the Consultant Ophthalmologist, Member of Glaucoma Division at King Khaled Eye Specialist Hospital since 2011 and an active participant in glaucoma research. She has presented in 22 international conferences, participated in 9 publications and conducted 7 training programs in ophthalmology.

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