



SLT in Pseudophakic Patients

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Selective Laser Trabeculoplasty

Q-switched, frequency doubled Nd:YAG
laser (532nm)

3 nanoseconds pulse (fixed)

400 micron spot size (fixed)

Selective pigmented trabecular cells
without collateral damage.

Selective Laser Trabeculoplasty



Selective Laser Trabeculoplasty





Selective Laser Trabeculoplasty

- Advantages of SLT
 - Natural
 - Selective
 - Non thermal
 - Repeatable



Selective Laser Trabeculoplasty

- Cataract surgery statistically increases n medication and IOP in glaucoma patients with functioning blebs and controlled IOP

Crichton & Kirker, J of Glaucoma Feb 2001



Selective Laser Trabeculoplasty

- Glaucoma surgery presents a challenge following cataract & IOL
 - Conjunctiva
 - Cornea
 - Postop shallow AC
 - Iris

SLT maybe ??



Selective Laser Trabeculoplasty

- SLT is a useful tool in OAG in phakic patients
- Few reports on SLT in glaucoma patients with previous cataract surgery with PCIOL implantation

(Shazly et al.,2011)



SLT in Pseudophakic Patients

- AIM

- Assess SLT in lowering IOP in OAG patients with previous cataract & PCIOL



SLT in Pseudophakic Patients

- Patients and Methods

- Records of 36 patients
- OAG on treatment
- Uneventful phaco & PCIOL
- 360° SLT
- 9 patients previous SST

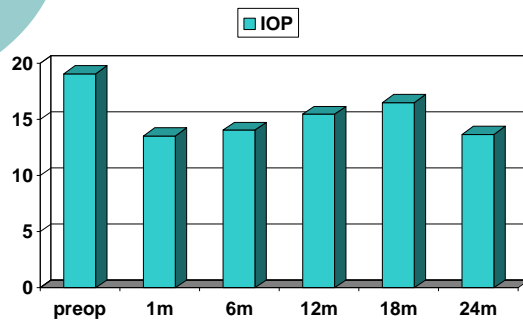
SLT in Pseudophakic Patients

○ Patients and Methods

- Preop IOP and 1, 6, 12, 18 and 24m
- Success: 20% , no further SST
- Preop & postop # medication

SLT in Pseudophakic Patients

○ Results



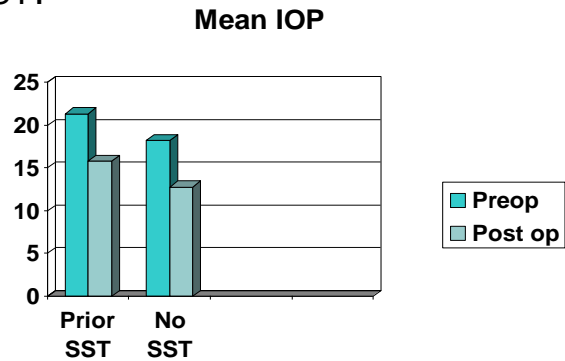
	mean	SD
Age	63.3	11.08
IOP preop	19.06	4.6
IOP 1m	13.53	3.4
IOP 6m	14.05	3.9
IOP 12m	15.47	4.1
IOP 18m	16.5	1.7
IOP 24m	13.69	4.4

$p < 0.001$

SLT in Pseudophakic Patients

○ Results

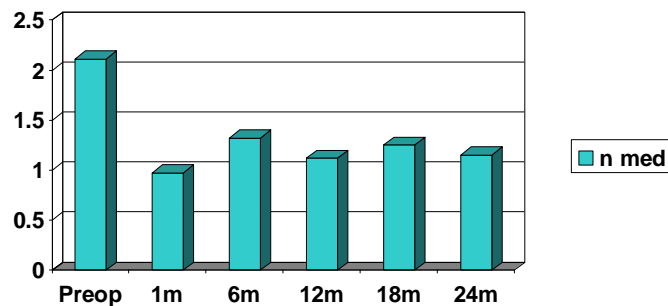
- Success rate at 2 yr was 76.9%
- Prior SST:



SLT in Pseudophakic Patients

○ Results

- Number of Medications:





SLT in Pseudophakic Patients

- [Ophthalmic Surg Lasers Imaging](#). 2007 May-Jun;38(3):182-8.

Selective laser trabeculoplasty in phakic and pseudophakic eyes.

[Werner M](#), [Smith MF](#), [Doyle JW](#).

- *Clinical Ophthalmology* 2011;5 377–380

Effect of prior cataract surgery on the long term outcome of selective laser trabeculoplasty

Tarek A Shazly¹, Mark A Latina², John J Dagianis³, Satyakant Chitturi⁴



SLT in Pseudophakic Patients

○ Conclusion

- SLT is a simple and safe outpatient procedure that lowers IOP and medications in pseudophakic patients with known OAG.
- SLT was equally effective in patients with prior SST
- SLT effect decreases with time



SLT in Pseudophakic Patients

- Take home message
 - SLT is a useful tool in the control of IOP in pseudophakic patients
 - Previous SST should not defer the surgeon from trying SLT
 - Follow up is mandatory