

Next Gen SLT: What, When, Where

1 hour

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Description

This course reviews selective laser trabeculoplasty (SLT), focusing on how it works and when to use it. Emphasis for this course is placed on direct SLT (dSLT) technique, performed without a coupling lens, highlighting efficiency, patient comfort, and streamlined clinic flow. Indications, patient selection, and expected outcomes are discussed alongside practical pearls for optimizing results.

Learning Objectives

- Review the mechanism of action and clinical role of selective laser trabeculoplasty (SLT) in glaucoma management.
Compare traditional SLT techniques with lens-free SLT in terms of efficiency, safety, and patient comfort.
Evaluate clinical outcomes and long-term considerations for using SLT or direct SLT (dSLT) as first-line or adjunctive glaucoma therapy.

Outline

I. Overview

- a. Why Selective Laser Trabeculoplasty (SLT)
 - i. brief summary
 - ii. why other glaucoma treatment options have drawbacks
- b. How – discuss the mechanism of action (MOA) for SLT in patients.
- c. Where – where should we position SLT for patients in glaucoma care?

II. Traditional SLT

- a. Key concepts to this treatment
- b. How we schedule, deliver, and co-manage SLT
- c. Factors leading us to considering SLT
- d. Does it work
 - i. SLT as primary treatment – LIGHT study
 1. Update of the LIGHT Study
 - a. 3-year results
 - b. 6-year results
 - ii. *McIlrath et al study*- Showing efficacy of SLT
 - iii. *Alvarado et al study* discussing the repeatability of SLT.
 - iv. Case discussing the results of a repeat SLT case

e. When we are cautious with SLT

III. Direct SLT (dSLT)

a. Key differentiators to SLT

i. non-contact

ii. duration of treatment, efficacy?

b. Patient video showing the procedure

c. Patient video showing the doctor view

d. *Glaurious* Trial looking at dSLT data

i. Discuss the patient demographics and inclusion with 1:1 comparison to SLT

ii. Efficacy data

e. *COAST* Trial update

f. Real world data

i. from our practice

ii. my practice experience

g. Next steps after dSLT (drops, NSAID?, follow-up?)

h. Optometric adoption of dSLT

IV. SLT/dSLT 901- Whats next?

a. Scenarios where we prefer one technology over the other?

b. Interventional glaucoma with laser

i. Using laser trabeculoplasty to lessen meds but not first line therapy.

ii. Using laser trabeculoplasty after a minimally invasive glaucoma surgery (MIGs)?

iii. Combining laser trabeculoplasty with drug delivery

1. Bimatoprost SR

2. Travoprost SR

V. Conclusion

a. What are patients saying they want for first-line glaucoma therapy?

i. *University of Colorado Patient preferences study*

b. What are glaucoma surgeons choosing for first-line therapy?

i. *Survey in Journal of Glaucoma.*

c. Marketscope data showing a large increase in laser volumes

d. Proposed algorithm for managing glaucoma in patients with open-angle disease.

VI. Q&A / Discussion