Complications of Laser Treatments: Now What?

lan McWherter, O.D., F.A.A.O.

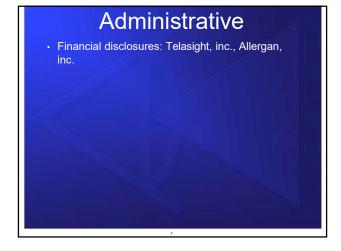
Telasight, Inc.

Bennett and Bloom Eye Centers, Louisville, KY

Head of Optometric Telemedicine and Emerging Technology at the Kentucky College of Optometry, Pikeville, KY

September 2023

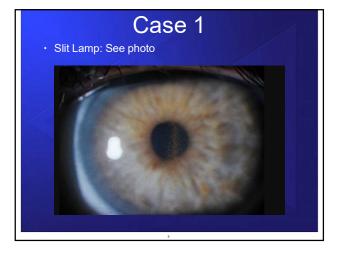
ianmcwherter@gmail.com

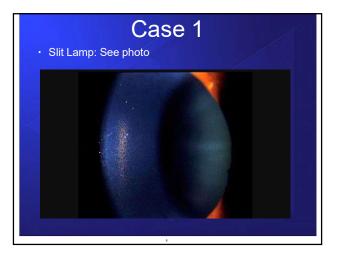


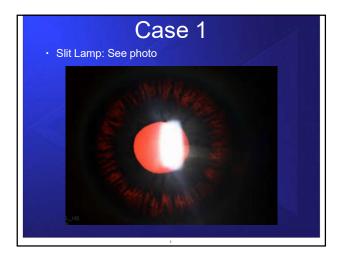
Case 1

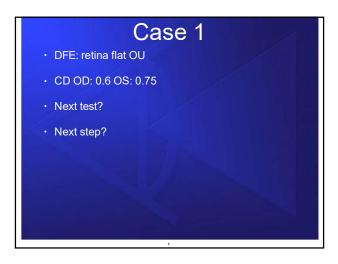
- 67 yo AA male
- CC: 4 months Glaucoma follow up
- Medical Hx: HTN, DM 2, COPD, RA
- Ocular Hx: Glaucoma
- Ocular Meds: latanoprost qhs OU and simbrinza bid OU

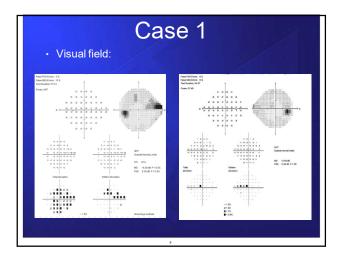
- VA OD:20/20 OS:20/20
- EOM: Full
- CF OD: Full OS: nasal constriction
- IOP OD: 16 OS: 24
- Pachs OD: 553 OS: 546

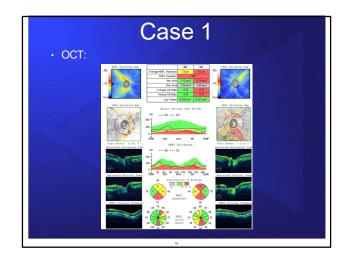


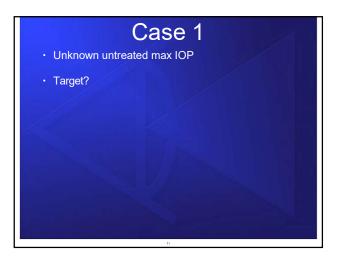


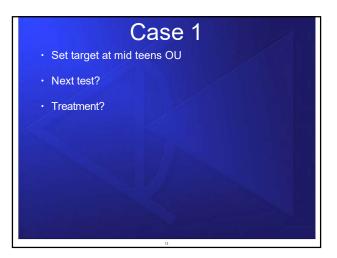


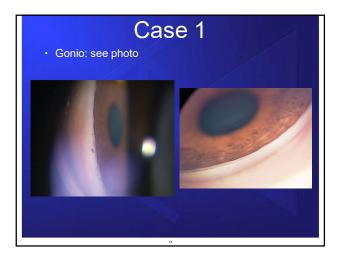








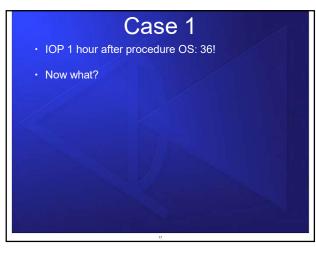








Case 1
Perform SLT OS
Brimonidine 0.2% pre op
105 spots
• 0.8 mj per spot
・ Total energy 84 mj
Diclofenac 0.1% tid x 3 days



- Give drop of latanoporst and simbrinza
- Recheck in 30 mins
- IOP 30 mins later OS: 39!
- It went up!
- · Now what?

- What is the next thing we need to ask?
- Any allergies?
- "No."
- Give 1000 mg diamox, another drop of latanoprost and simbrinza
- Give Rhopressa (netarsudil 0.02%)
- Also give timolol 0.5% with punctal occlusion (one drop in the office isn't going to cause prolonged breathing problems)
- Recheck IOP in 1 hour

Case 1

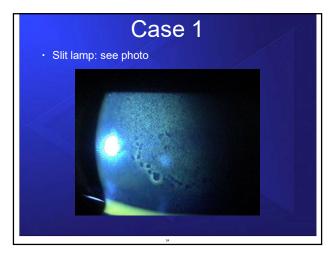
- IOP in 1 hour OS: 32
- · Ok its heading down
- Now what?
- · Recheck in 1 day
- IOP at 1 day post op OS: 24
- · Great! See you in 6 weeks to see if SLT worked

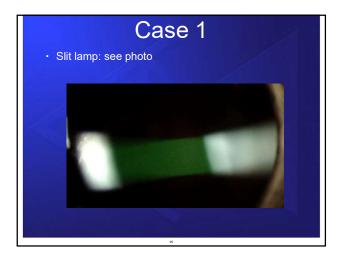
Case 1

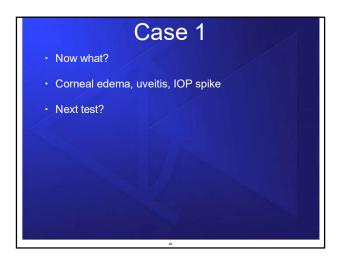
- But patient calls 6 days later
- "My eye hurts. It's red, painful, and I can't see out of it. There are a lot of halos around lights."
- Work patient into schedule to be seen that day

- VA OD:20/20 OS:20/50
- EOM: Full
- CF OD: Full OS: nasal constriction
- IOP OD: 16 OS: 49

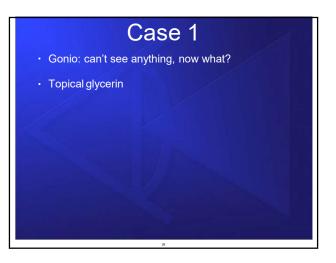










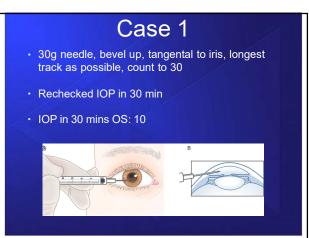






- Next treatment?
- Everything.
- 1000 mg Diamox, latanoprost, simbrinza, timolol
 0.5%, Rhopressa, durazol (would give drops every 5 minutes)
- Recheck IOP in 1 hour
- IOP in 1 hour OS: 47
- Now what?

Case 1 Paracentesis Lid speculum, proparacaine, betadine before and after Ocuflox qid x 3 days



Case 1

- Recheck IOP in 1 day
- IOP in 1 day OS: 15
- Stop diamox, stop timolol
- Taper durazol qid x 1 week, tid x 1 week, bid x 1 week, qd x 1 week
- Continue latanoprost and simbrinza
- Recheck IOP in 1 week

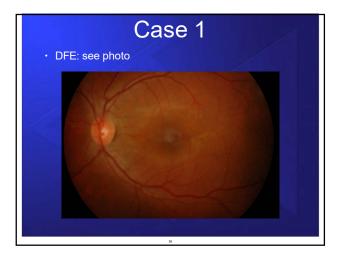
Case 1

- What if patients IOP was back up to 45 on 1 day IOP check?
- · Schedule for tube shunt

- IOP check in 1 week OS: 20
- Great, you are in the clear. Check back in 6 weeks to see if SLT worked

- IOP check in 6 weeks OS: 17
- Great!
- "But hey doc, my vision is blurry."
- BCVA OD: 20/20 OS 20/60
- Now what?



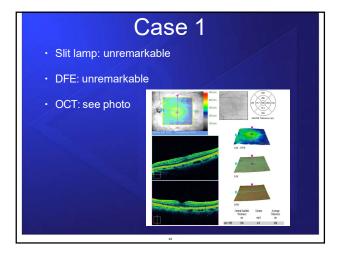




Case 1

- Treatment?
- Durazol q2h x 2 weeks then taper
- Diclofenac 0.1% tid
- Recheck in 2 weeks

- · 2 week follow up
- Vision improved
- VA OD: 20/20 OS: 20/25
- IOP OD: 16 OS: 17
- No evidence of steroid response

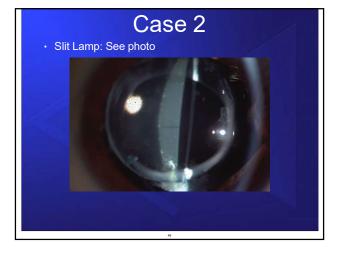


- Taper durazol qid x 1 week, tid x 1 week, bid x 1 week, qd x 1 week then stop
- Diclofenac 0.1% tid x 1 month then stop
- Recheck in 1 month
- If CME wasn't improved in 2 weeks with topical anti-inflammatories, send to retina for sub tenons kenalog....or you could do it in Kentucky...





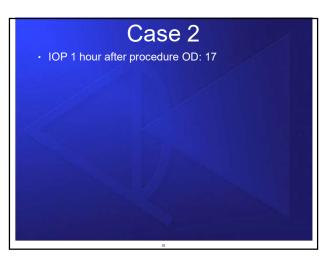
- VA OD:20/40 OS:20/25
- Glare OD: 20/60 OS: 20/30
- EOM: Full
- CF OD: Full OS: Full
- IOP OD: 16 OS: 15



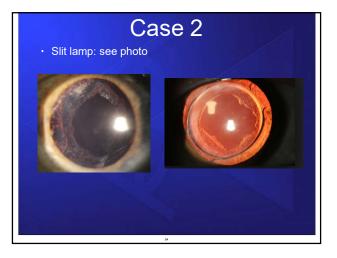


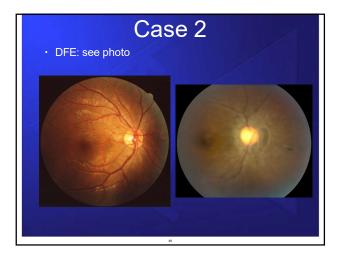
- Perform Yag Cap OD
- Brimonidine 0.2% pre op
- 51 spots
- 1.9 mj per spot
- Total energy 96.9 mj
- Diclofenac 0.1% tid x 3 days





- 2 week DFE Post Op
- CC: "My vision improved but now I see a spot?"
- VA OD:20/25 OS:20/25
- EOM: Full
- CF OD: Full OS: Full
- IOP OD: 16 OS: 17





Case 2 • New onset PVD • Next test? • Sclera Depression • Retina flat no breaks or RD • Follow up?



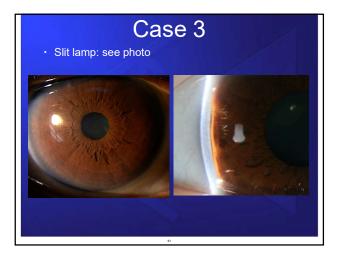
Case 2

- If still symptomatic, give a few more months, then consider PPV
- Any tear found, send to retina for laser retinoplexy
- Now onto the patient in room 3

Case 3

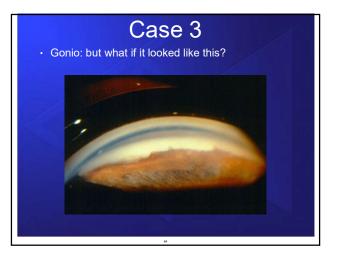
- 40 yo H Female
- · CC: "intermittent headaches"
- Medical Hx: None
- Ocular Hx: None
- Ocular Meds: None

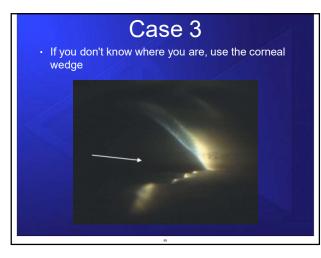
- VA OD:20/20 OS:20/20
- MRx OD: +2.50 OS: +3.00
- · EOM: Full
- · CF OD: Full OS: Full
- IOP OD: 21 OS: 21











- Perform prophylactic LPI OS
- Brimonidine 0.2% pre op
- 19 spots
- 5.2 mj per spot
- Total energy 119.6 mj
- Pred 1% qid x 1 week



- Other eye performed in 1 week without complication
- 2 week follow up (not post op)
- CC: "My headaches are gone! But i've had a few flashes of light in my left eye"
- VA OD:20/20 OS:20/20
- EOM: Full
- CF OD: Full OS: Full
- IOP OD: 20 OS: 20

