On behalf of Vision Expo, we sincerely thank you for being with us this year.

Vision Expo Has Gone Green!

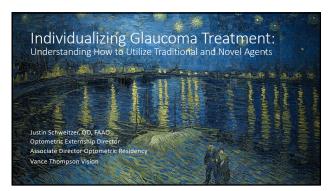
We have eliminated all paper session evaluation forms. Please be sure to complete your electronic session evaluations online when you login to request your CE letter for each course you attended Your feedback is important to us a our Conference Advisory Board considers content and speakers for future meetings to provide you with the best education possible.



1

Financial Disclosure — Justin Schweitzer, OD, FAAO Anne-Ch Allore-Ch Allor

2



65-year-old, Caucasian female referred for a second opinion for possible glaucoma. She states she has never had high eye pressures and doesn't understand how she could have glaucoma.

Ocular History

- POHX: Cataract extraction OU 2014, YAG capsulotomy OU 2014
- FHX: Mother glaucoma, age-related macular degeneration
- Previous Treatment Regimen: None
- Current Treatment Regimen: None
- OD: 17 mm Hg OS: 17 mm Hg

Medical History

- PMHX: Hyperlipidemia
- All Medications: Fluoxetine
- Allergies: Penicillin
- Blood Pressure: 118/75

4

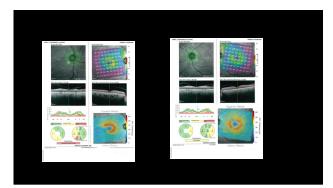
Ocular Exam

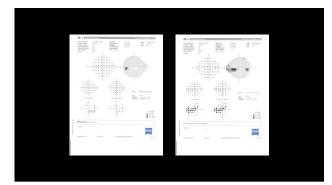
- Uncorrected visual acuity (UCVA): 20/20 OD, 20/20 OS
- External exam: Normal appearance, symmetrical
- Pupil exam: Equal, round, reactive to light and (-) APD
- Slit-lamp exam
 Lens: Well centered posterior chamber intraocular lens, open posterior capsule OU
 Goldmann Applanation Tonometry: 16 mm Hg OD, 17 mm Hg OS
- Central corneal thickness (CCT): 499 OD, 504 OS
- Gonioscopy: Open to CB in all quadrants, no pigment in the TM, and normal iris approach
- Corneal Hysteresis: 9.4 mm Hg OD, 9.3 mm Hg OS

5









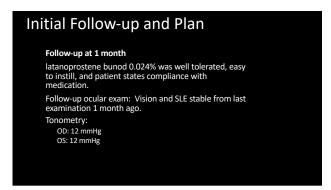
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Diagnosis

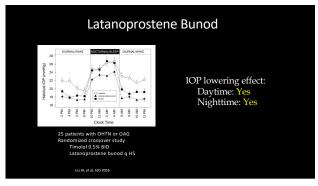
Severe Normal Tension Glaucoma OD Pre-perimetric Normal Tension Glaucoma OS

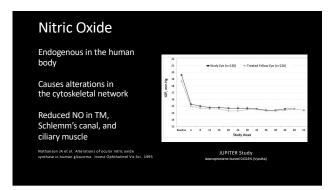
Other diagnoses: SPO Cataract Extraction OU, SPO YAG Capsulotomy OU

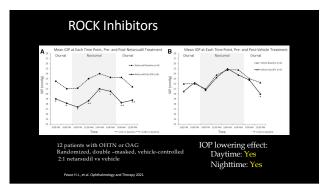
Initiate treatment with latanoprostene bunod 0.024% qd @ night OU $\,$ Goal IOP reduction of 20% or greater from baseline IOP

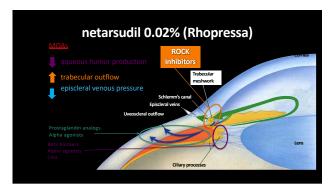












netarsudil 0.02% + latanoprost 0.005% (Rocklatan)

• RHO protein kinase (destabilizes actin in TM)
• Rock inhibitor (lowers EVP)
• Latanoprost (uveoscleral outflow)
• NET Inhibition (decrease aqueous production)

Netarsudil 0.02% + latanoprost 0.05%

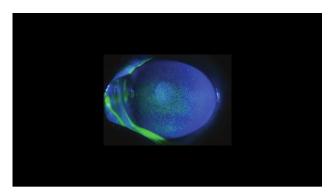
Netarsudil 0.02% + latanoprost 0.05%

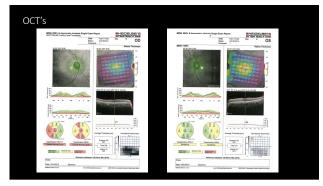
Netarsudil 0.02% - Pooled Mercury 1 and Mercury 2 Data Mean IOP reduction at 3 months

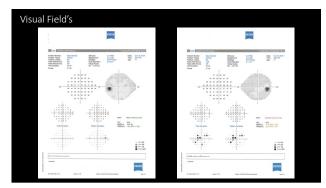
16

Case • 71-year-old African-American male • Medical History: HTN • Family History: HTN, DM • BCVA: 20/20 +1 OU • 10P: 29 mm Hg OD; 26 mm Hg OS • C/D: 0.80/0.80 OD 0.65/0.65 OS • Pachymetry: 510 OD; 514 OS • Corneal hysteresis: 8 OD 8.9 OS • Gonioscopy: Open to CB OU w/ trace pigment in TM • SLE: See Photos • VF's – See next slide • OCT's – See next slide

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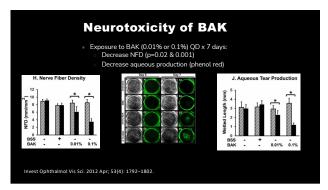


Case Considerations Need to address the ocular surface What therapy do we choose to treat his glaucoma

Case Conclusion

- Performed SLT OU
- Added "soft steroid" for 2 weeks qidAdded immunomodulator bid OU
- IOP 17 OD; 16 OS @ 6 weeks
- Cornea essentially clear
 Placed plugs and continued immunomodulator
- Monitoring the patient every 4 months initially
- Recent visit stable VFT, OCT, and IOP (schedule q 6 mos)

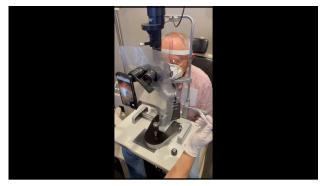
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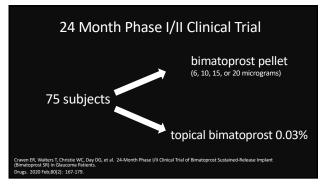


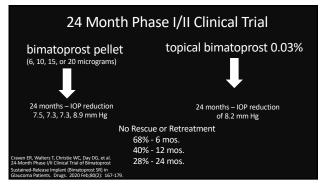
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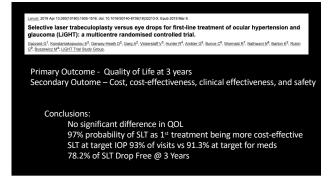








Selective Laser Trabeculoplasty Selectively targets and laser burns pigmented TM cells



CASE History of Present Illness: Ocular	
84-year-old, Caucasian female	
Ocular History	
Diagnosed with POAG – 2012-2014	
OD – latanoprostene bunod 0.024% qd	
OS – history of tube shunt, no current medications Cataract extraction: 2009 OU	
Family History: POAG - Father	
31	
J1	
History of Present Illness: Medical	
Medical History Systemic Medications: Amitriptyline HCL, Alprazolam 0.25 mg,	
Systemic Medications: Affiliativity interact, Alprazolam 0.25 mg, Carbamazepine 200 mg	
Allergies: Codeine, Ultram	
Social History: Unremarkable	
32	
Ocular Exam:	
VAcc: OD – 20/20 OS – 20/40	
Tmax IOP: OD – 24 mmHg OS – 28 mm Hg	
SLEX: Tube shunt OS, otherwise unremarkable	
ONH: OD – 0.80/0.80 OS – 0.95/0.95	

Ocular Exam:

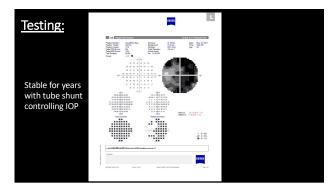
Pachymetry: 510 OU Gonioscopy: Open to CB

IOP on Exam: OD – 19 mm HG OS – 11 mm HG

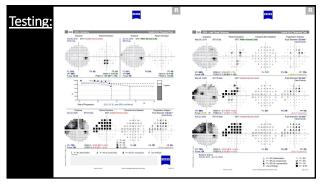
IOP History:

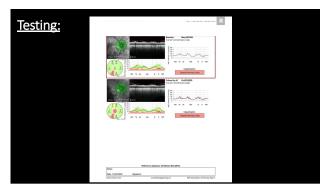
OD – consistently 10-12 mm HG (on medication) OS – consistently – 10-11 mm HG (tube shunt)

34



35







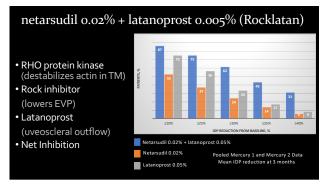
Minimally or Micro Invasive Glaucoma Surgery (MIGS)

Procedures that have an ab-interno approach, are minimally traumatic, with at least modest efficacy, extremely high safety and rapid recovery.

SLT as a second line option • Drop expectations: • 1st drop – 25-35% IOP reduction • 2^{std} drop – 2-4 mmHg (10-20%) • 3^{std} drop – 0-2 mmHg • SLT – exact same expectations • Exact same treatment protocols/pre op/post op

• Pair best with aqueous suppressants?

40



41

