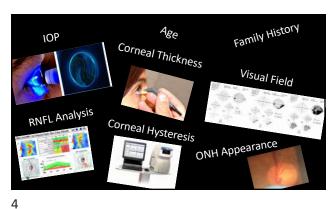
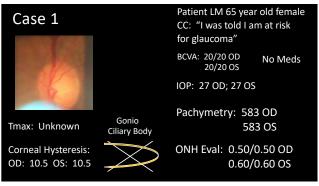


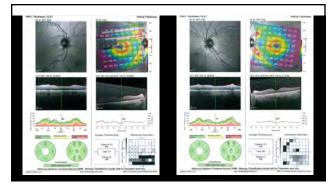


• Download "Poll Everywhere" App from your mobile app store • Log on & choose "I'm Participating" • Join PollEv.com/vision • Or to participate via mobile device without the app, text vision to 22333 to join

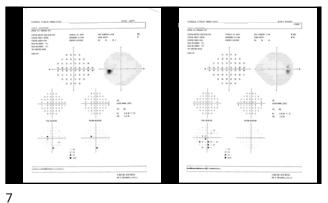


3





5 6



In this 65 yo Patient I would diagnose • A. Ocular Hypertension (OHTN) • B. Preperimetric glaucoma (Open-angle borderline findings) • C. Mild POAG (open angle) • D. Low risk glaucoma suspect

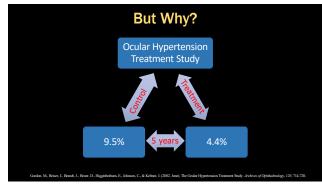
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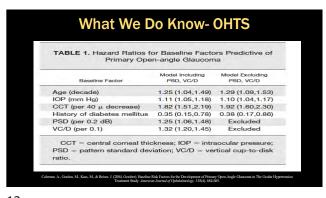


For management of LM, I would • A. Start a prostaglandin analogue (PGA) (travoprost QD) • B. Recommend Selective Laser Trabeculoplasty (SLT) • C. Recommend monitoring with IOP check in 3 months \bullet D. Recommend monitoring with OCT, IOP, VF in 6 months





11 12



Assessment of Cumulative Incidence and Severity of Primary Open-Angle Glaucoma Among Participants in the Ocular Hypertension Treatment Study After 20 Years of Follow-up.

Mahad A. Rose. Mit: David: House. Mits: Not a regarded-than. Mits (schared K. Internét. Mits: Observation of Follow-up.)

Mahad A. Rose. Mit: David: House. Mits: Not a regarded-than. Mits (schared K. Internét. Mits: Observation of Follow-up.)

Mahad A. Rose. Mit: David: House. Mits: Not a regarded-than. Mits: Schared K. Internét. Mits: Observation of Follow-up.

Mahad A. Rose. Mit: David: House After 1. Fellow Mits. Add. Herry A. Caddyny Mits. Maers. Cardidos, 1960.

To the Coldar Hypertension Schary Group.

1. African American patients showed a significantly higher conversation rate.

2. Combining both cohorts, the cumulative rate of Visual Field loss was 25.2%

Kee, M. Hous D. Eligibehous E. Punik B. Blazer, C. Band J. Jobe Hypersionis Study Comp., 2012. April 19. Assessment of Complete Incidence and Scientify of Primary Open. And Cardina Lever Pencies in Study Hypersionis Study Comp., 2012. April 19. Assessment of Complete Incidence and Scientify of Primary Open. And Cardina Lever Pencies in Study Hypersionis Study Comp., 2012. April 19. Assessment of Complete Incidence and Scientify of Primary Open. And Cardina Lever Pencies in Study Lever 1811. 484. 86.

13 14

Do I Need OCT?

Optical Coherence Tomography (OCT) is non-invasive cross-sectional imaging tool

Light waves (IR) scattered by ocular structures are measured by interferometry

Use in glaucoma
Peripapillary retinal nerve fiber layer (RNFL)

Macular nerve fiber layers (mNFL)

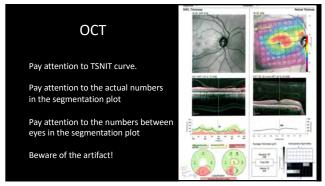
Ganglion cell layer with inner plexiform layer (GCIPL)

Ganglion cell complex (mNFL + GCIPL)

FEESANCH ACTION

The Control of C

15 16

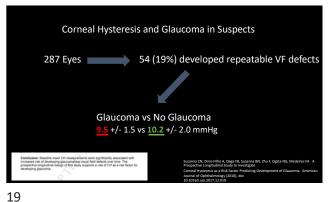


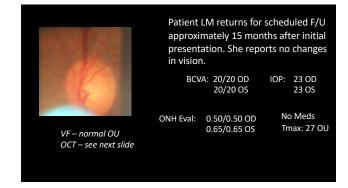
What We Do Know- Hysteresis Matters

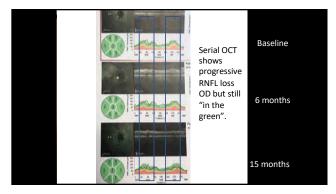
RIGHT EYE

(Low) CH has been consistently shown to be independently and strongly associated with or predictive of glaucoma progression

17 18



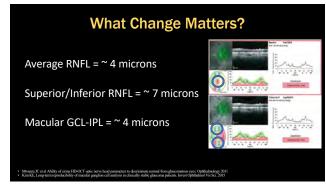


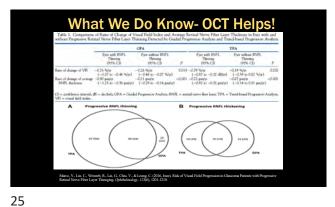


For this same patient, I would now suggest • A. Start a prostaglandin analogue (latanoprost QD) • B. Recommend Selective Laser Trabeculoplasty (SLT) • C. Recommend monitoring with IOP check in 3 months • D. Start a beta blocker (timolol BID)

21 22

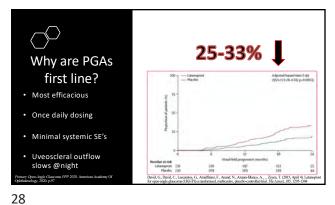






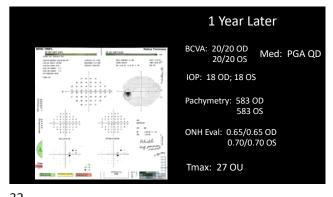
Aqueous Suppressants	Uveoscleral Outflow	Aqueous Suppressants	Uveoscleral Outflow + TM outflow	Rho-Kinase Inhibitor	Compounded Meds
-B-blockers -Alpha-2- adrenergics -CAI's	-Prostaglandins	-Combo Drops			-B-blockers -Alpha-2- adrenergics -CAI's -PGA's
Timoptic *timolol *betaxolol Alphagan P *brimonidine Azopt *brinzolamide Trusopt *dorzolamide	Lumigan *bimatoprost Travatan Z *travoprost Xalatan *latanoprost Zioptan Xelpros *latanoprost BAK free lyuzeh *latanoprost PF	Combigan *brimonidine- timolol Cosopt *dorzolamide- timolol Simbrinza	Vyzulta	Rhopressa Rocklatan	





(Xelpros) latanoprost emulsion 0.005%						
BAK-free latanoprost ophthalmic emulsion						
Swollen Micelle Microemulsion (SMM) Technolog	V OI					
Reduces IOP up to a mean of 6 mmHg to 8 mmHg in randomized clinical trials	Latanoprosti Non-lonic					
	Latanoprod Non-look Stabilizer					





For this very same patient on a PGA , I would now suggest • A. Switch in class to a name brand PGA (Lumigan QD)

- B. Switch to a PGA + NO donor (Vyzulta QD)
- C. Add a beta blocker (timolol QAM)
- D. Add a combination medication (dorz-timolol BID)
- E. Recommend SLT

33 32



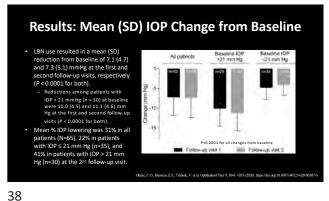
Vyzulta (latanoprostene bunod 0.024%) VOYAGER Study Ocular ■ latanoprost 0.05% ■ LBN 0.024%

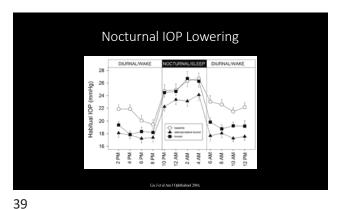
34 35

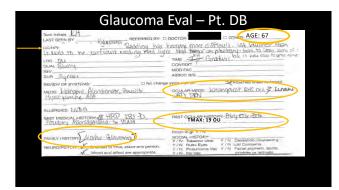
Nitric Oxide SVS Endogenous in the human Causes alterations in the cytoskeletal network Reduced NO in TM, CB Schlemm's canal, and ciliary muscle

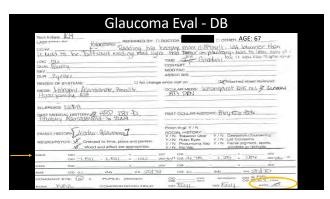
Retrospective Chart Review on Real-World Use of Latanopsotene Bunod 0.024% in Treatment-Naïve Patients with Open-Angle Glaucoma Multicenter, noninterventional retrospective chart review Charts were included if patients Were aged ≥ 18 years
 had no history of medical, laser, or surgical intraocular pressure (IOP)-lowering intervention Had at least two follow-up visits (spanning≥2 months) following initiation of LBN treatment.
 Data extracted from the charts included age, sex, race, cup-to-disk ratio, central corneal thickness, IOP, visual acuity (VA), concomitant medications, and adverse - Reduction in IOP was determined for the overall dataset and in patients with IOP \le 21 mm Hg and >21 mm Hg - In patients treated bilaterally, the eye with the higher baseline IOP was the study eye.

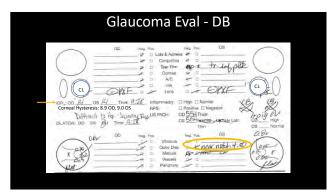
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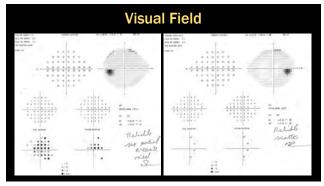


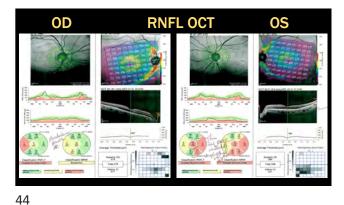












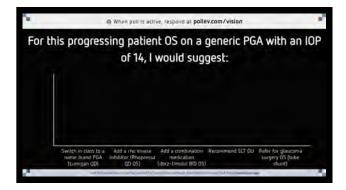
For this progressing patient OS on a generic PGA with an IOP of 14 , I would suggest

- A. Switch in class to a name brand PGA (Lumigan QD)
- B. Add a rho kinase inhibitor (Rhopressa QD OS)
- C. Add a combination medication (dorz-timolol BID OS)
- D. Recommend SLT OU

45

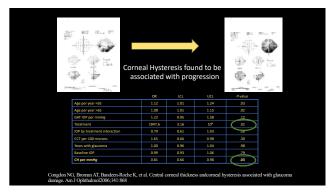
47

• E. Refer for glaucoma surgery OS (tube shunt)



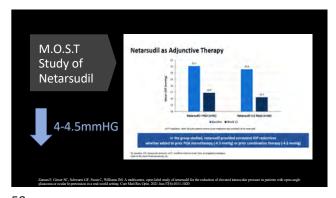
What does it all mean? • 50% of all POAG patients have a positive family history • Their 1st degree relatives have 9-fold increased risk of developing glaucoma • 22% lifetime risk for 1st degree relatives vs 2.3% in normal controls
• 10.4% in siblings with glaucoma vs 0.7% in siblings of normal I. Awadalla M.S., Fingert J.H., Roos B.E. Copy number variations of TBK1 in Australian patients with primary open-angle gluscoma. Am J Ophthamol. 2015;199:124-130.
2.Wolfs R.G.C., Klaver C.C.W., Ramantan R.S., Van Daijn C.M., Holman A., de Jong P.T.V.M. Genetic risk of primary open-angle gluscoma. Arch Ophthalmol. 1998;11

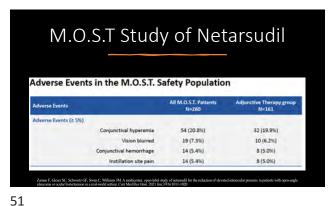
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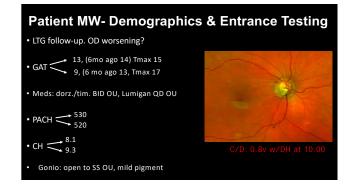


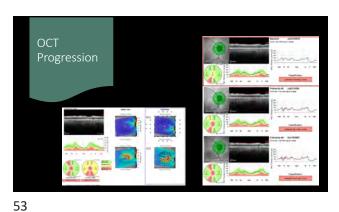
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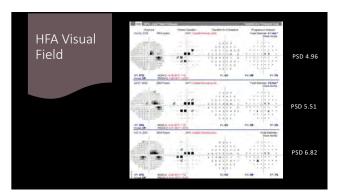


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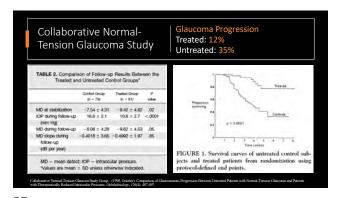
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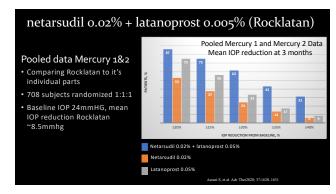
What is your treatment goal for low tension glaucoma?
A. Reduction of IOP is irrelevant in LTG
B. 25% reduction from baseline IOP
C. 30% reduction from baseline IOP
D. 40% reduction from baseline IOP

54 55

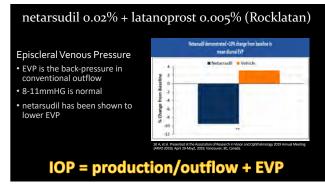








58 59



Add Another Drop?

Rates for persistence are generally below 50% at 1 year

Patients with adjunctive therapy commonly reported more problems with medication use than those on monotherapy.

A study of adjunctive therapy suggested that patients prescribed a second ocular hypotensive medication refilled their first-prescribed medication less regularly

Busche and Gramer also reported decreased adherence when multiple medications were used

Galf : Schwarz, Hary A. Quighy, Advence and Pasidance with Glaucous Thougo, Sarvey of Quidudensky, Viduae 13, base 4, Supplement, 2008, Pages 357, 568

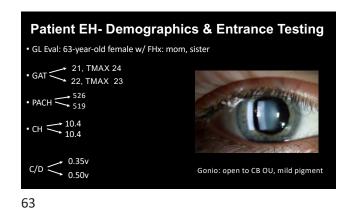
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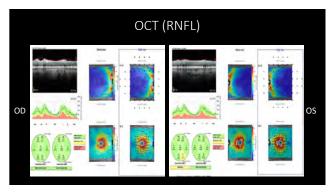
S. Basel, E. Gonetibous algebrose glaucous thency after advences to the sind group beauty? Quidudensky, 112,000, pp. 63,808

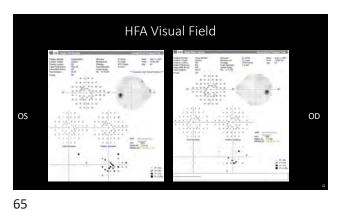
S. Basel, E. Gonetifound condens beautiful and such such like Malad Machalded, 2111 (1971), pp. 257,522

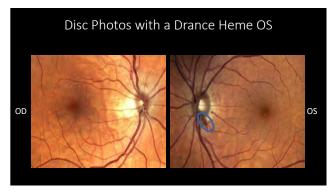
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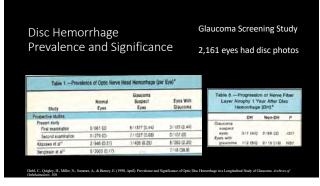


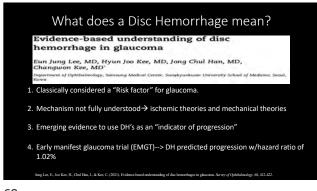


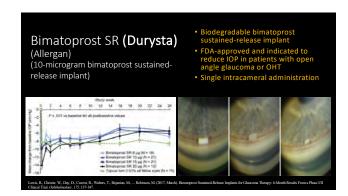










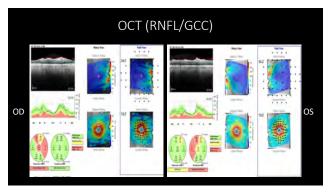




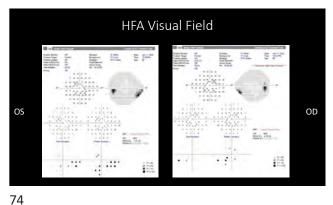


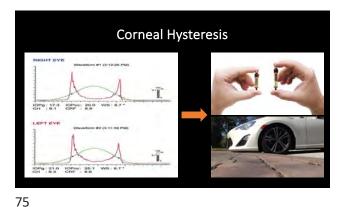
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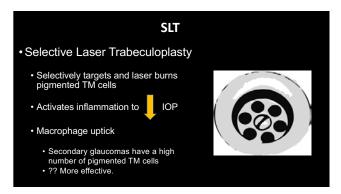


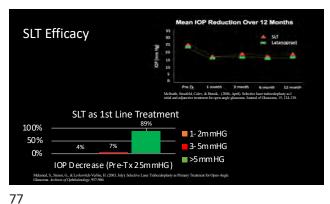


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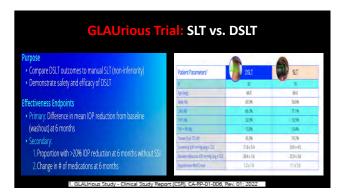


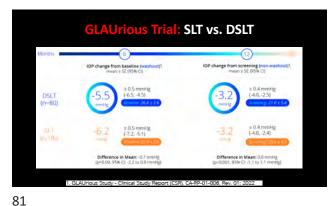




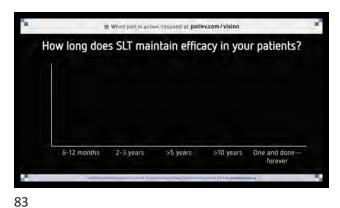






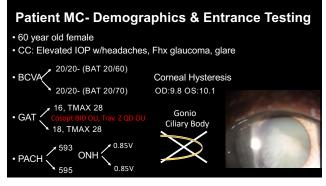




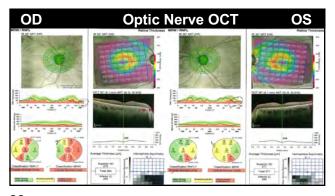


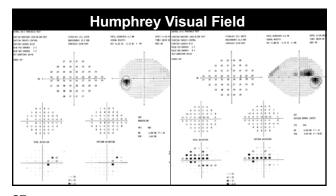
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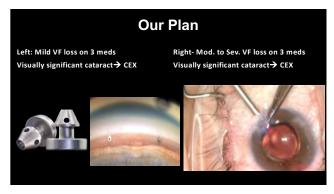


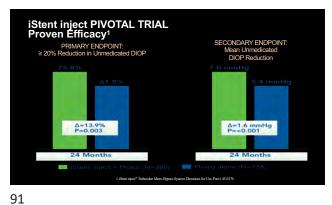


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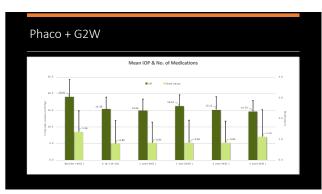


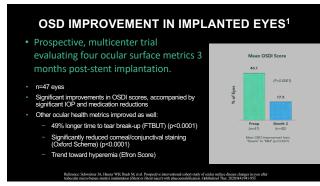






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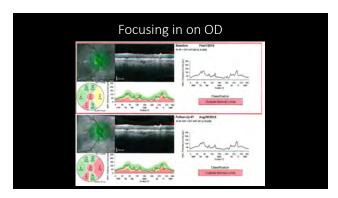


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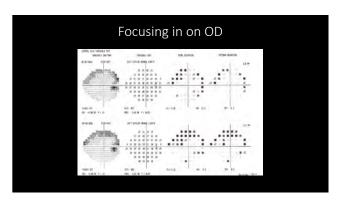


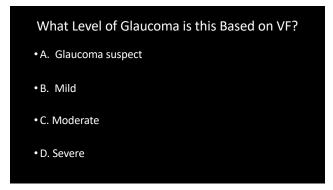




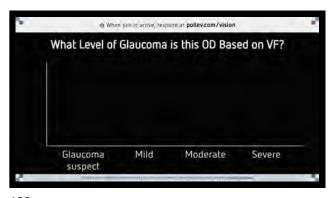


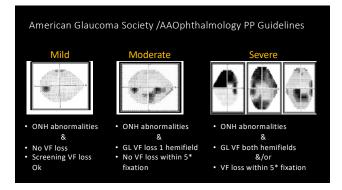
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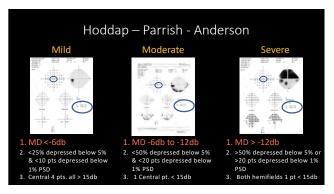


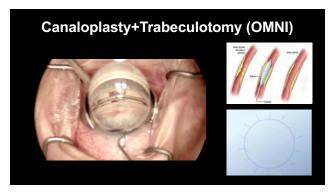


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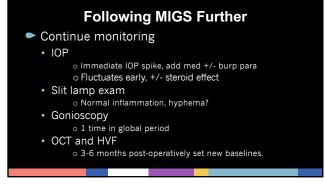








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