

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 as our Education Planning Committee considers content and speakers for future meetings to provide you with the best education possible.



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Financial Disclosure – Justin Schweitzer, OD, FAAO

- Alcon – C/L
- Aldeyra – C
- Allergan – C/L
- Bausch + Lomb – C/L
- Bruder – C
- Sight Sciences – C/L
- Dompé – C/L
- Zeiss – C/L
- Visus – C
- Science Based Health – C
- Tarsus – C/L
- Santen – C
- Sun – C/L
- Reichert – C
- Glaukos – C/L
- MediPrint – C
- LXC – C/L
- Viartis – C
- Thea – C
- Heru – C
- Lenz – C/L
- Harrow – C

The following financial relationships have been mitigated

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Jessica Steen OD Financial Disclosures

- Speakers Bureau-Carl Zeiss Meditec, Bausch and Lomb, Viartis, Thea Pharma, Alcon, Allergan, Astellas, Dompé
- Consultant-Bausch and Lomb, Balance Ophthalmics, Carl Zeiss Meditec, Opus Genetics, Viartis, Allergan, Astellas, Alcon, Radius XR, iCare, Glaukos, Eyeovia, Tarsus, Orasis
- Shareholder-Clearside Biomedical (<0.01% ownership)
- All relevant relationships have been mitigated

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## Case Files in Glaucoma

Justin Schweitzer, OD, FAAO  
Jessica Steen, OD, FAAO




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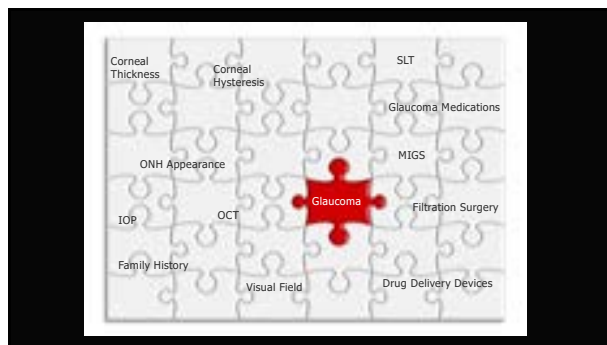
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- **71-year-old African-American male**
- **Medical History:** HTN
- **Family History:** HTN, DM
- **BCVA:** 20/20 +1 OU

- **IOP:** 29 mm Hg OD; 26 mm Hg OS
- **C/D:** 0.60/0.60 OD 0.70/0.70 OS
- **Pachymetry:** 510 OD; 514 OS
- **Corneal hysteresis:** 8 OD 8.9 OS
- **Gonioscopy:** Open to CB OU w/ trace pigment in TM
- **SLE:** Unremarkable
- **VF's** – See next slide
- **OCT's** – See next slide

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ONH's



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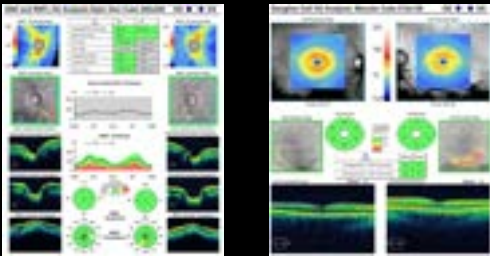
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OCT



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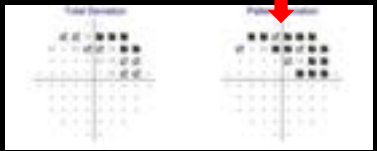
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OS VFT's

24-2



10-2



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## The Case for 10-2's

### Early Central Defects are Common

- 50% of mild to moderate GLC have defects within central 3 degrees<sup>1</sup>
- 16% of patients have central defect when using 24-2 alone<sup>2</sup>
- 9% classified as normal on 30-2 with damage on 10-2<sup>3</sup>
- 13% of the time 30-2 underestimates level of glaucoma<sup>3</sup>
- 24-2 testing found to be normal<sup>4</sup>
  - 10-2 defects found in:
    - 35% of OHTN
    - 39% of glaucoma suspects
    - 61% of early glaucoma

1. Estroff N, Paragomian S, Samuels PA, et al. Spatial pattern of glaucoma visual field loss obtained with randomly centered stimuli strategies. Invest Ophthalmol Vis Sci. 2003;44(13):3685-9.  
 2. Taylor J, de Menezes CG, Moxa RL, et al. Prevalence and nature of early glaucoma visual defects in the central 10 degrees of the visual field. JAMA Ophthalmol. 2014;132(1):281-91.  
 3. Longshanks C, Camillo C, Bunker B, et al. Measurement for detection of early glaucoma visual defects. In: Wall M, et al, eds. Perimetry Update 1996/1997. New York, NY: Appleton Publishers; 1997:67-77.  
 4. de Menezes C, Moxa RL, Longshanks C, et al. 24-2 visual field tests in glaucoma suspects, ocular hypertension, and early glaucoma. Ophthalmology. May 24, 2013.

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## The Case for 10-2's

### When to Run the Test?

1. Any depressed points in the central 12 degrees on the 24-2 or 30-2
2. A Paracentral defect is present on 24-2
3. Any abnormal points in the central 12 points on 24-2 that correlates with thinning on GCPL
4. GCL-IPL abnormality

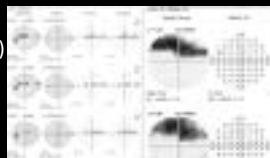
Park H, Hwang B, Shin H, et al. Clinical clues to predict the presence of parafoveal scotoma on humphrey 10-2 visual field using a humphrey 24-2 visual field. Am J Ophthalmol. 2016 Jan;161:150-9.

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### Baseline 10-2 Visual Field Loss as a Predictor for Future Glaucoma Progression

Longshanks C, Moxa RL, Taylor J, et al. Baseline 10-2 visual field loss as a predictor for future glaucoma progression. Invest Ophthalmol Vis Sci. 2014;55(12):3685-91.  
 Taylor J, de Menezes CG, Moxa RL, et al. Baseline 10-2 visual field loss as a predictor for future glaucoma progression. Invest Ophthalmol Vis Sci. 2014;55(12):3685-91.  
 de Menezes C, Moxa RL, Longshanks C, et al. Baseline 10-2 visual field loss as a predictor for future glaucoma progression. Invest Ophthalmol Vis Sci. 2014;55(12):3685-91.

Studied 394 Eyes of 202 Subjects  
(119 POAG and 83 Glaucoma Suspects)  
over 6.7 Years



**22 x** greater risk of developing future VF loss event if you had 10-2 defect

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## What Would You Do?

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## Treatment Considerations

Monitor  
Glaucoma Drops  
SLT  
Drug Delivery  
Surgical Intervention

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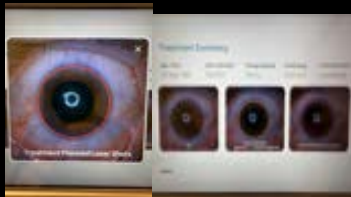
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### Case Summary:



IOP @ 6 weeks:  
16 mm Hg OD  
15 mm Hg OS

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LIGHT trial: 6-year results of primary selective laser trabeculoplasty versus eye drops for the treatment of glaucoma and ocular hypertension

Gus Gazzard, Evgenia Konstantakopoulou, David Garway-Heath, Mariam Adenika, Victoria Zhouzhen, Gareth Ambler, Rachael Hunter, Caley Burke, Neil Nathwani, Keith Barker on behalf of the LIGHT Trial Study Group

Primary Outcome - Quality of Life at 6 years  
Secondary Outcome – clinical effectiveness and safety

Conclusions:

- No significant difference in QOL
- 26.8% VS 19.6% progressed drops vs SLT
- Trab required in 32 eyes in drops arm compared to 13 eyes in the SLT arm
- 69.8% of SLT Drop Free @ 6 Years

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### Low-Energy SLT Repeated Annually: Rationale for the COAST Trial

Tony Realini, MD, MPH, Gus Gazzard, MD, Mark Latina, MD, Michael Kass, MD

Newly diagnosed POAG treated with:

1. ALT 360 x 1
2. Standard SLT 360 as needed
3. Low-energy SLT 360 repeated annually

<p>10-year Results</p> <p>Medication Free Rates</p> <ol style="list-style-type: none"> <li>1. ALT – 22.6%</li> <li>2. Standard SLT – 25.0%</li> <li>3. Low-energy SLT – 58.3%</li> </ol>	<p>10-year Results</p> <p>Median Times to Treatment</p> <ol style="list-style-type: none"> <li>1. ALT – 2.8 years</li> <li>2. Standard SLT – 3.2 years</li> <li>3. Low-energy SLT – 6.2 years</li> </ol>
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79-year-old male  
CC: Glaucoma Evaluation  
ROS: "Vision has been good, but  
OD said my eye pressures are  
elevated"

BCVA: 20/20 OD  
20/20 OS      No Meds

IOP: 30 OD; 31 OS

Pachymetry: 550 OD  
550 OS



OD



OS

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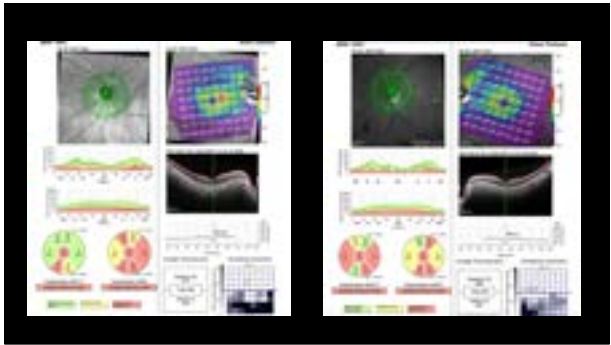
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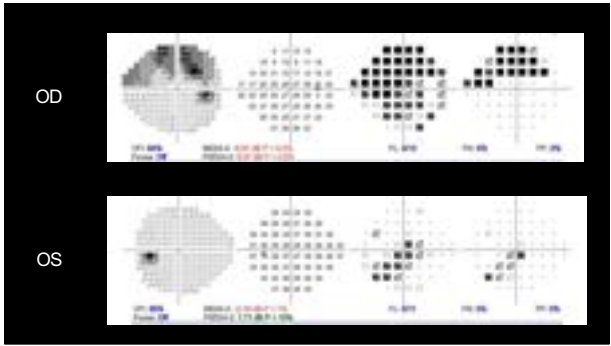
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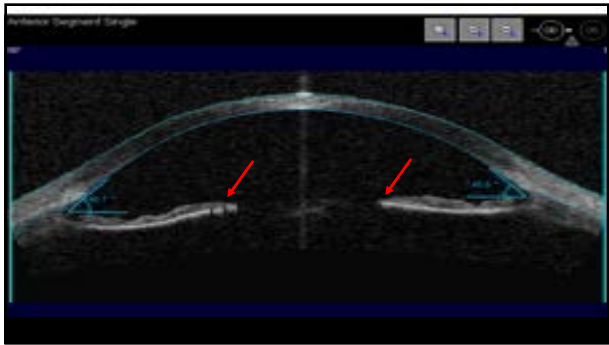
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## 2 step Considerations in PDS or PDG

- Step 1: Reduce incidence of irido-zonular contact (LPI)
- Step 2: Open up trabecular meshwork (SLT)
- Topical therapy as needed to control IOP and prevent glaucoma

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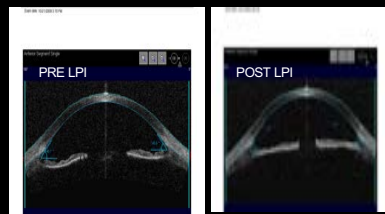
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## Treatment

- LPI and SLT OU
- IOP 18 OD; 16 OS



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## Pigment Dispersion Syndrome/PD-Glaucoma

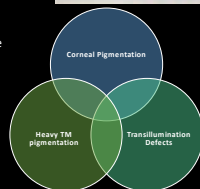
### Mechanism of Disease

Abnormal Irido-zonular/Irido-lens contact  
Iris pigment deposited on Cornea, Lens, AC angle

Concave Iris approach

- Fluid from PC to AC causing higher IOP in AC than PC (Ball-Valve Mechanism)
- Pressure gradient causes the iris to bow concave with higher iridolenticular contact in some people= Reverse pupillary block
- Blinking, accommodation, *exercise* may promote

Elevation in IOP and IOP spikes secondary to pigment occlusion of physiologic outflow.



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Estimated prevalence of PDS is 2.45% in the US

Disease less severe as patient ages and pigment release slows

Mechanism: Crystalline lens thickens causing an adjustment of zonular-iris contact

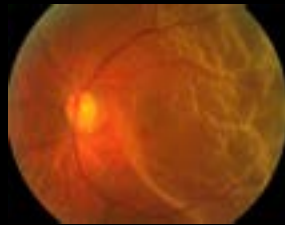


Lahola-Chomiak AA, Walter MA. Molecular Genetics of Pigment Dispersion Syndrome and Pigmentary Glaucoma: New Insights into Mechanisms. *J Ophthalmol*. 2018;2018:5926906.

28

### The Retina and PDS

Lattice Degeneration – 22-33%  
Retinal Detachment – 12%



1. Weale P, Liebmann J, Walsh J, Birch R. Lattice degeneration of the retina and the pigment dispersion syndrome. *American Journal of Ophthalmology*. 1992;114(5):539-543. doi: 10.1016/0002-9398(92)90485-0

2. Suckert G, Pappas A, Nishi C, Groll L. Retinal involvement in pigment dispersion syndrome. *International Ophthalmology*. 1995;19(6):375-378. doi: 10.1007/BF00130858

3. Schae H, G, Gerson J, D. Pigment dispersion syndrome: a clinical study. *The British Journal of Ophthalmology*. 1981;65(2):267-269. doi: 10.1136/bjo.1981.015.026.04

4. Samardot R. Retinal detachment and pigment dispersion syndrome. *Wissenschaften für Augenheilkunde*. 1995;133(1):27-31. doi: 10.1055/S-2008-005401

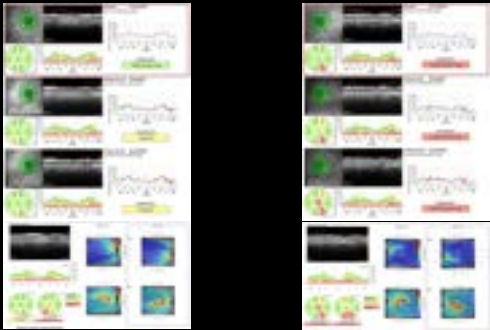
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- **78-year-old Caucasian-Female**
- **Medical History:** Thyroid, HTN
- **Meds:** Levothyroxine, omeprazole, metoprolol
- **Ocular Meds:** bimatoprost 0.01% qd, fixed combo agent bid
- "Eyes have been red, irritated, I just don't like taking my drops anymore"
- **BCVA:** 20/20 +1 OU

- **IOP:** 14 mm Hg OD; 15 mm Hg OS
- **C/D:** 0.75/0.75 OD 0.75/0.75 OS
- **Pachymetry:** 510 OD; 514 OS
- **Corneal hysteresis:** 8.7 OD 9.1 OS
- **Gonioscopy:** Open to CB OU w/ trace pigment in TM
- **SLE:** 1+ SPK OU, 1+ hyperemia OU, PCIOL's
- **VF's** – See next slide
- **OCT's** – See next slide

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OCT



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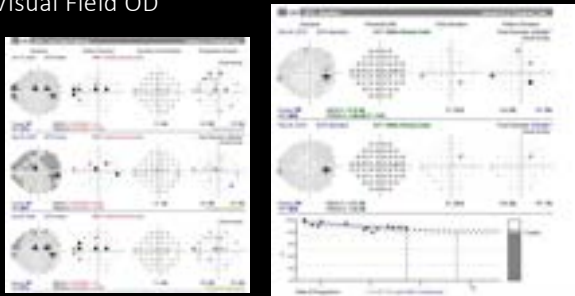
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Visual Field OD



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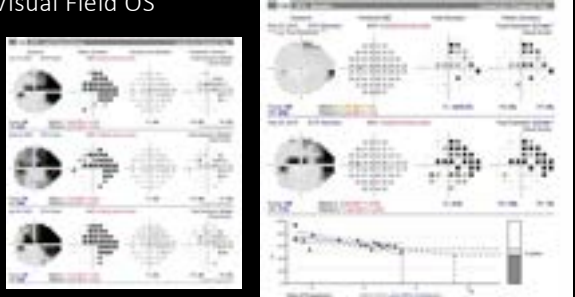
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Visual Field OS



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### Considerations

- Patient is not tolerating medications (tremors, OSD, hyperemia)
- OD minimal change
- OS progression is noted
- Previous CEX
- Options to address compliance, medications, and progression??

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## What Would You Do?

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### Case Summary



IOP Summary – 3 months PO  
 OD: 12 mmHG  
 OS: 14 mmHG

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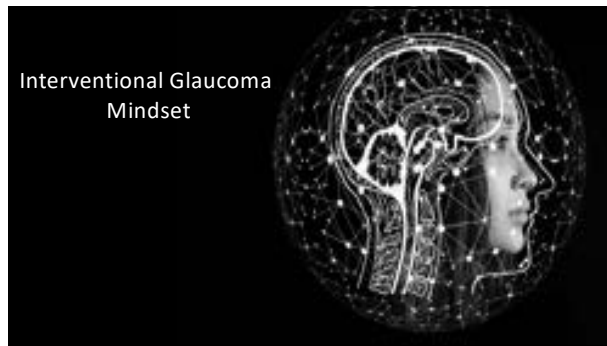
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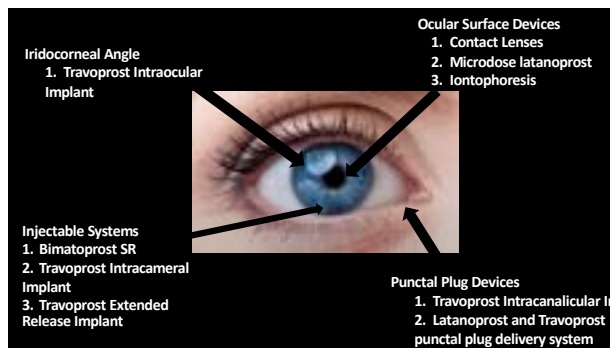
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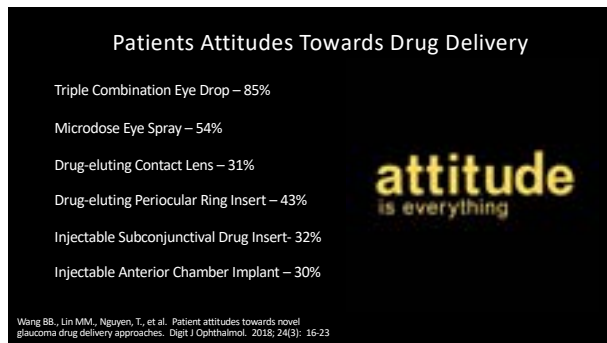
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### Bimatoprost SR

(10-microgram bimatoprost sustained-release implant)

- Biodegradable bimatoprost sustained-release implant
- FDA-approved and indicated to reduce IOP in patients with open angle glaucoma or OHT
- Single intracameral administration
- Phase I/II/III Studies



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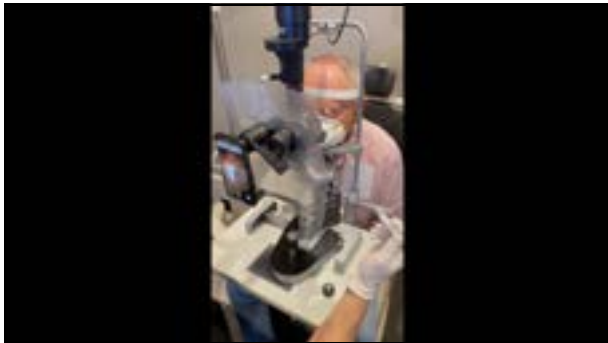
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### Travoprost intraocular implant

Resides in AC angle,  
anchored behind TM



- Length: 1.8 mm
- Diameter: 0.5 mm
- Titanium
- Non-ferrous

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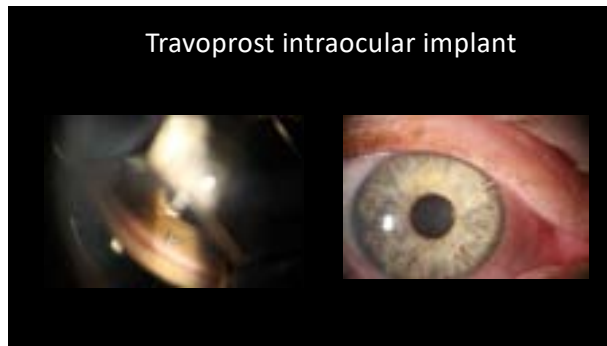
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### HORIZON Trial

	Baseline (SD)	(3, 144)	(3, 144)	Difference
Main selection	26.71 (26.43, 27.00)	26.74 (26.36, 27.10)	0.03 (4.32, 0.54)	
Rate (SD/year)	-0.28 (-0.38, -0.18)	-0.89 (-0.93, -0.84)	-0.23 (-0.40, -0.06)	

Microstent lowers the rate of visual field loss per year:

**47%**

vs cataract surgery alone

Gazzard G, Montesano G, Omotto G. Five-year Visual Field Outcomes from the Multicenter, Randomized, HORIZON trial. Am J Ophthalmol. Feb 20, 2023.

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### OSD IMPROVEMENT IN IMPLANTED EYES<sup>1</sup>

- Prospective, multicenter trial evaluating four ocular surface metrics 3 months post-stent implantation.
- n=47 eyes
- Other ocular health metrics improved as well:
  - 49% longer time to tear break-up (FTBUT) (p<0.0001)
  - Significantly reduced corneal/conjunctival staining (Oxford Schema) (p<0.0001)
  - Trend toward less hyperemia (Efron Score)

Mean OSDI Score

Time Point	Mean OSDI Score
Preop (n=47)	40.1
Month 3 (n=42)	17.5

(p<0.0001)

Schweitzer JA, Hauser WS, Bach M, Baartman B, Gollamudi SR, Choudhury AM, Kim JB, Seibert JP. Prospective Interventional Cohort Study of Ocular Surface Disease Changes in Eyes After Trabecular Microbypass Stent Implantation (iStent or iStent Inject) with Phacolytic Glaucoma. Ophthalmol Ther. 2020 Aug 13.

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**Trabecular Microbypass Stent x 3  
(iStent infinite)**

**Three-stent, standalone procedure**  
Three wide-flange stents preloaded in injector system, to facilitate placement across ~6 clock hrs. of Schlemm's canal



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**Excisional Goniotomy  
(Kahook Dual Blade)**

**Goniotomy  
(iAccess)**

**Goniotomy  
(SION)**



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**Ab-interno Trabeculotomy + Canaloplasty  
(OMNI)**



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Subconjunctival Stent  
(Xen)

**Xen 45 Gel Stent  
US Pivotal Clinical Trial**

	Baseline	12 month
Medicated IOP	25.1 (3.7)	15.9 (5.2)
Glaucoma Meds	3.5 (1.0)	1.7 (1.5)

Hypotony 16 (24.6%)  
Bleb Needling 21 (32.3%)

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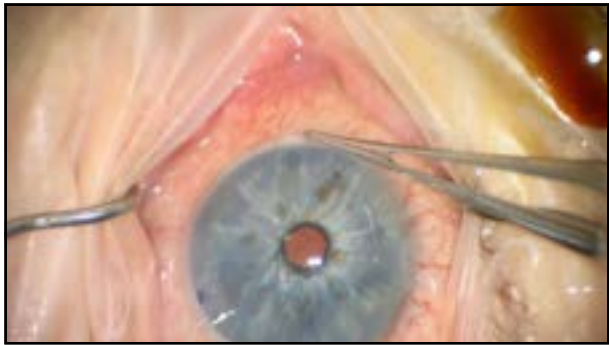
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**A Peek into The Future...**

**Elios**  
Excimer Laser Technology  
10 Microchannels in the TM  
Combo with CEX



**Vialase**  
Femtosecond laser  
Micron-accurate gonio imaging  
Non-invasive  
Customized drainage channels



Camera



Femtosecond Laser

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## A Peek into The Future...

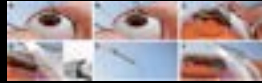
### MINIject

5-mm-long uveoscleral device  
2-year outcomes of 25 patients  
have shown a 40% reduction of  
IOP.



### Minimally invasive micro-sclerostomy (MIMS)

Stent-less  
90-micron diameter cylinder of scleral tissue  
Ab interno approach



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## 55 year old white male

- Suspicious of glaucoma since 2003 (33 years old) based on optic disc appearance

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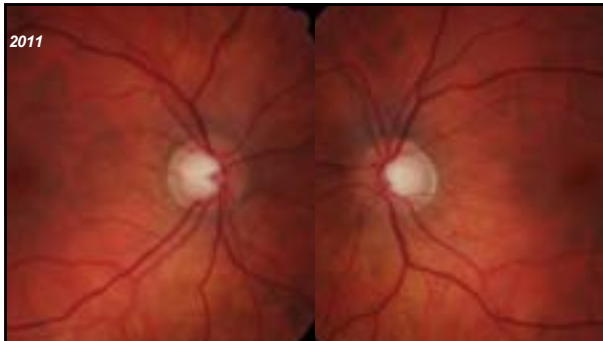
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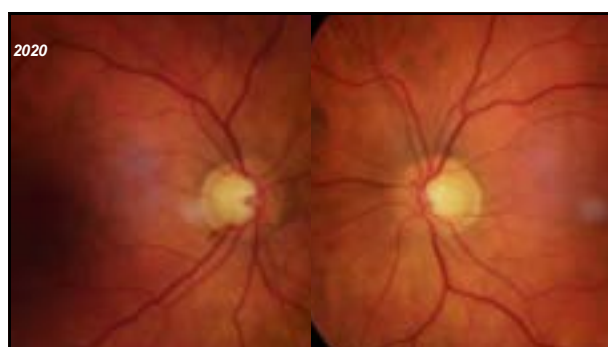
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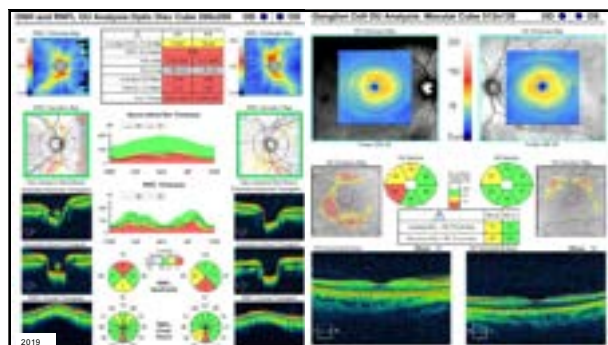
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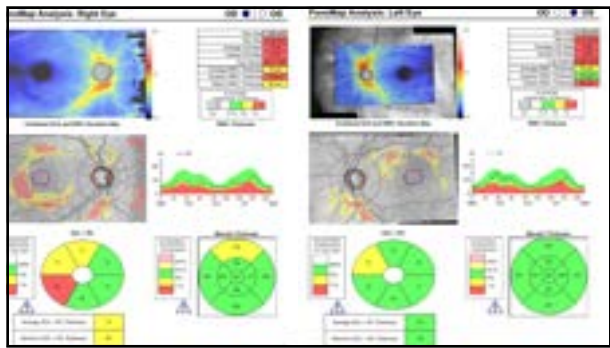
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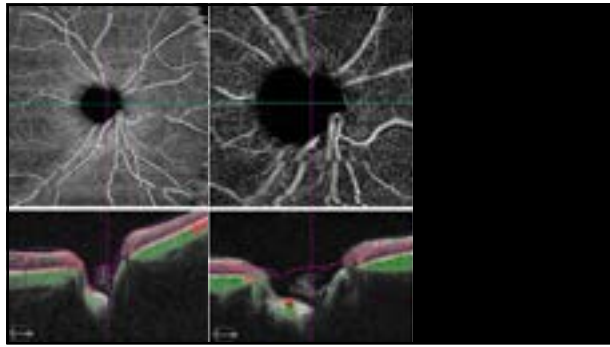
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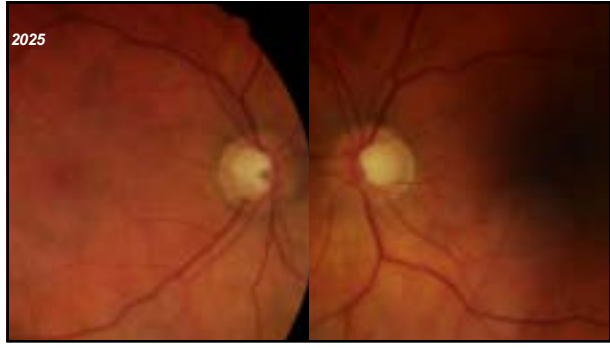
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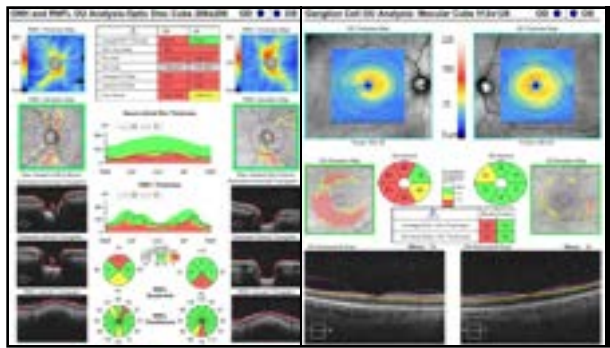
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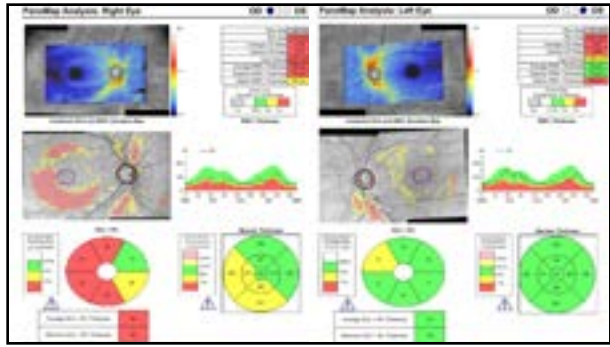
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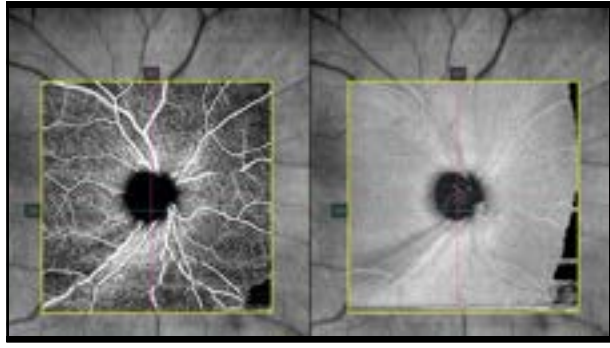
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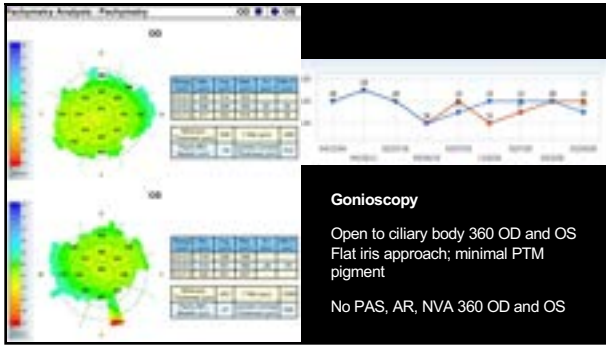
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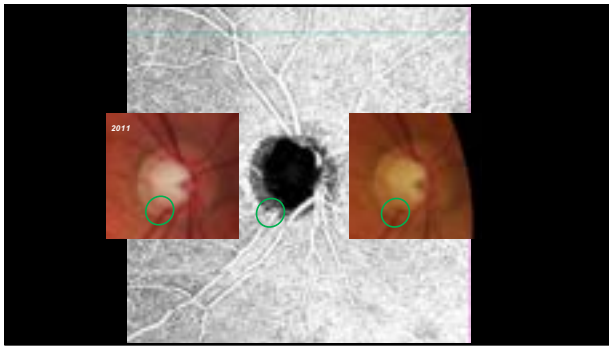
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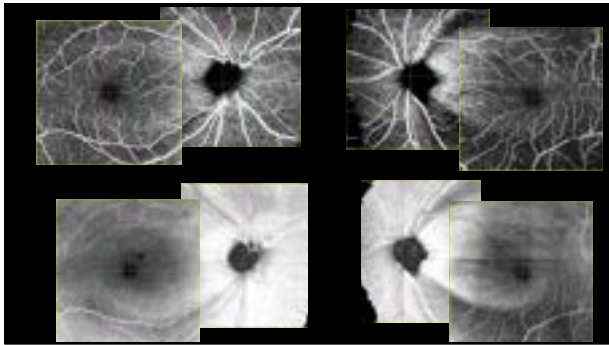
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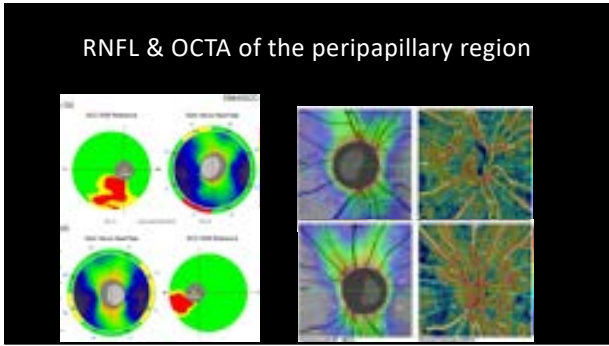
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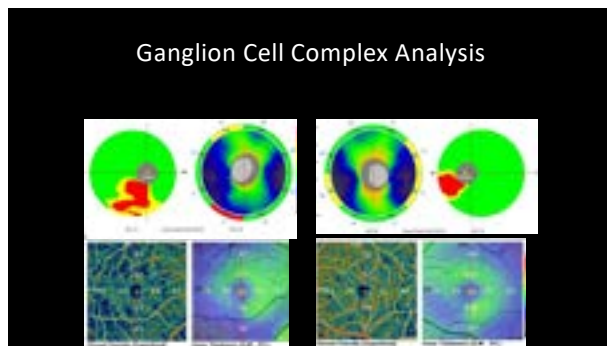
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### What Happens First?

- Glaucomatous eyes have reduced ocular blood flow
- Reduced peripapillary capillary density may be observed in glaucomatous eyes
- **Does decreased ocular blood flow cause optic neuropathy—or does optic disc damage cause decreased blood flow?**
  - A) Ischemia leads to ganglion cell death
  - B) GC loss results in reduced metabolic demand

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### Chicken or Egg?

- Metaphysical questions have metaphysical answers
- We're clinicians.

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It's Not Actually That Simple

- Neurons, glial cells, cerebral microvascular endothelium function together = neurovascular unit
- Remember, we are limited in a clinical environment by the parameters that we are provided by a device
  - Velocity of blood flow (not yet)
    - Variation of interscan time
  - Research parameters are developed into clinical parameters-eventually

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59 year old female

- Diagnosed with POAG in Haiti about 10 years ago
  - Latanoprost QHS OU
- IOP 16-18mmHg range OD and OS
  - CCT 560um OD 540um OS
- Hypertension
  - Labetalol

77

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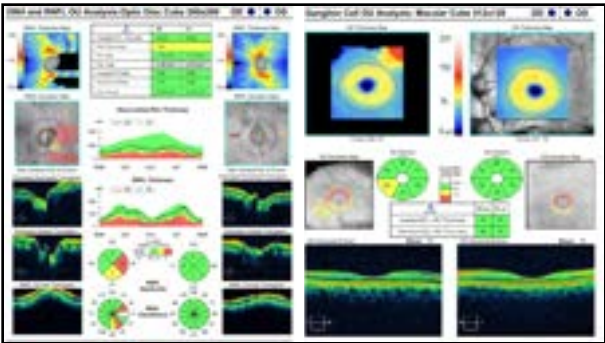
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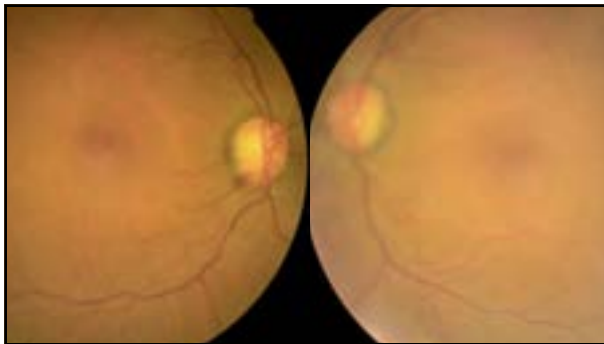
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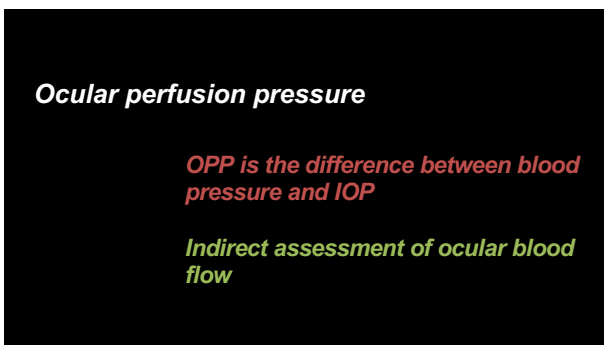
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***Labetalol(?!)***

*May be initial therapy in severe disease-or used to treat hypertensive crisis*

**Non-selective beta blocker; also has alpha blocking activity**

**Selective beta-blockers: atenolol, metoprolol**

82

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Discard the reported data from the HYGIA program. Blood pressure medication not to be routinely used at bedtime.

**Does Timing of Antihypertensive Medication (Timing Matters?)**

[David G. Hackman](#)<sup>1</sup>, [Roderick H. Alexander](#)<sup>2</sup>, [Michael D. Jacobowitz](#)<sup>3</sup>, [Julianne Mader](#)<sup>4</sup>, [Arlene Shinn](#)<sup>5</sup>, [Robert J. Daly](#)<sup>6</sup>, [Michael D. Jacobowitz](#)<sup>3</sup>, [Julianne Mader](#)<sup>4</sup>, [Arlene Shinn](#)<sup>5</sup>, [Robert J. Daly](#)<sup>6</sup>, [Michael D. Jacobowitz](#)<sup>3</sup>, [Julianne Mader](#)<sup>4</sup>, [Arlene Shinn](#)<sup>5</sup>, [Robert J. Daly](#)<sup>6</sup>

[1](#) [University of Maryland School of Medicine](#), [Baltimore, Maryland](#)  
[2](#) [University of Maryland School of Medicine](#), [Baltimore, Maryland](#)  
[3](#) [University of Maryland School of Medicine](#), [Baltimore, Maryland](#)  
[4](#) [University of Maryland School of Medicine](#), [Baltimore, Maryland](#)  
[5](#) [University of Maryland School of Medicine](#), [Baltimore, Maryland](#)  
[6](#) [University of Maryland School of Medicine](#), [Baltimore, Maryland](#)

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**Abstract**

The timing of treatment to lower blood pressure is associated with the risk of myocardial infarction and stroke. However, the timing of treatment to lower blood pressure is not well understood. We evaluated the timing of treatment to lower blood pressure in a large, randomized, controlled trial. The timing of treatment to lower blood pressure was evaluated in a large, randomized, controlled trial. The timing of treatment to lower blood pressure was evaluated in a large, randomized, controlled trial.

**Bedtime hypertension chronotherapy best reduces cardiovascular disease risk as corroborated by the Hygia Chronotherapy Trial. Rebuttal to European Society of Hypertension officials**

*How can evening medication reduce NON-cardiovascular deaths?!*

83

**Hypertension**  
Volume 93, Issue 7, July 2023, Pages 1009–1024  
<https://doi.org/10.1177/10782995231150002>

 SAGE  
SAGE PUBLICATIONS

**Timing of Antihypertensive Drug Therapy: A Systematic Review and Meta-Analysis of Randomized Clinical Trials**

Muhammad Haisuim Magsood , Franz H. Messerli , Adam H. Skolnick , Jonathan D. Neeman , Jeffrey S. Berger , and Sripari Bangalore 

**Conclusions:** Evening dosing of antihypertensive drugs significantly reduced ambulatory BP parameters and lowered cardiovascular events but the effect was mainly driven by trials by Perimeda group. Unless the intention is to specifically lower night-time BP, antihypertensive drugs should be taken at a time of day that is convenient, optimizes adherence, and minimizes undesirable effects.

84

61 year old male

- Referred by primary care medicine due to glaucoma history-recently moved from out of state
- Reports glaucoma diagnosis in 2008 with the use of latanoprost QHS OU, dorzolamide-timolol BID OU, and prednisolone acetate 1% TID OD
- BCVA 20/200 OD, 20/100 OS; 2+ APD OD
- Bilateral ptosis; EOM full; no improvement with modified ice pack, no worsening with sustained upgaze

85

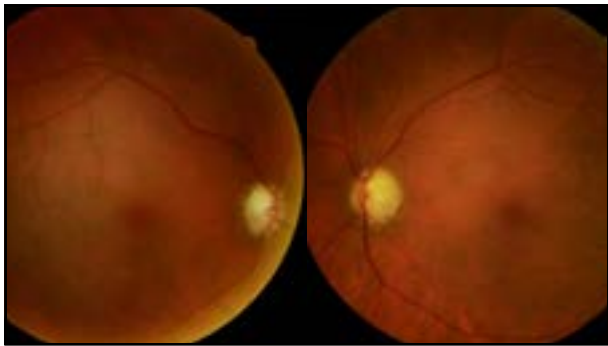
61 year old male

- IOP 7mmHg OD 15mmHg OS
- Gonioscopy open to CBB 360 OD and OS; tube in good position OD
  - No PAS, AR, NVA OD and OS; flat iris approach OD and OS
  - 2+ PTM pigment OD and OS
- SPEDD score 2

86

**Glaucoma Symptom Scale (1998)**

87



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89

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61 year old male

- Coordination of low vision services
  - Vocational skills, orientation and mobility training
- Registration with Division of Blind Services
- *“Doc, is there anything else I can do?”*

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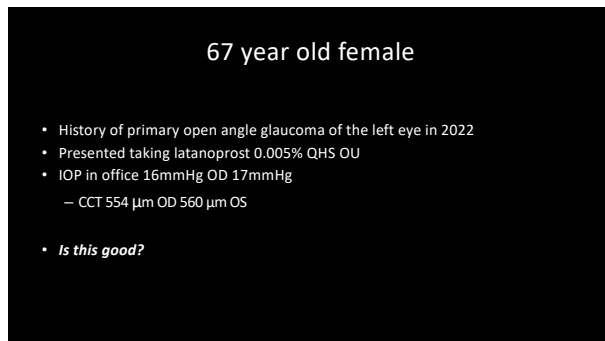
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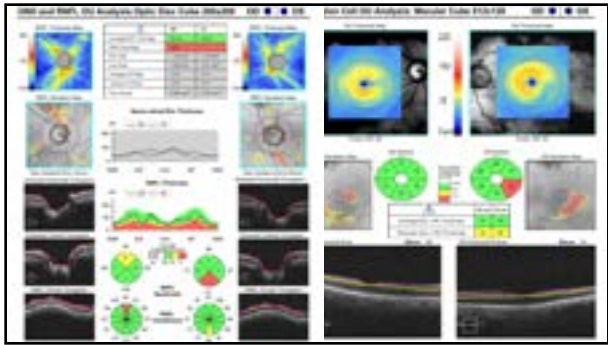
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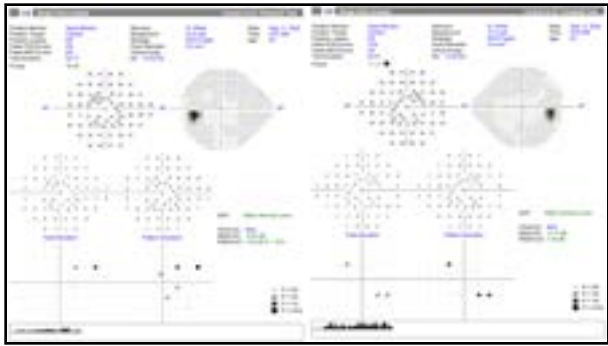
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***Is this good?!***

*Peak untreated IOP 18mmHg OD and 18mmHg*

*Treated IOP 16mmHg and 17mmHg OS*

*Blood pressure: 115/80mmHg on treatment*

*History of TIA 2011, stroke 2010*

*Bilateral hip replacement: 2016 & 2017*

*Fibromyalgia 2018*

98

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***Now what?***

*Adherence?*

*Discontinue treatment*

*IOP 1 month later: 16mmHg OD 15mmHg OS*

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*Evaluation of data gathered on that day—and most importantly, compared to previous data for change over time*

100

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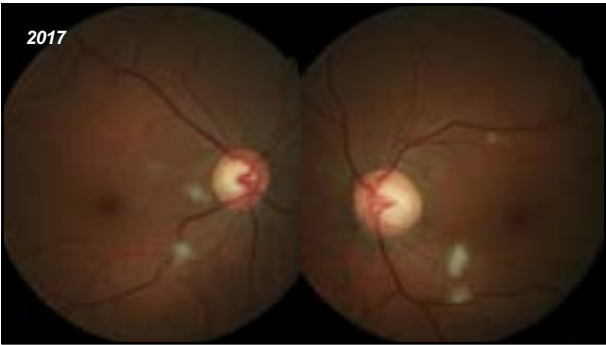
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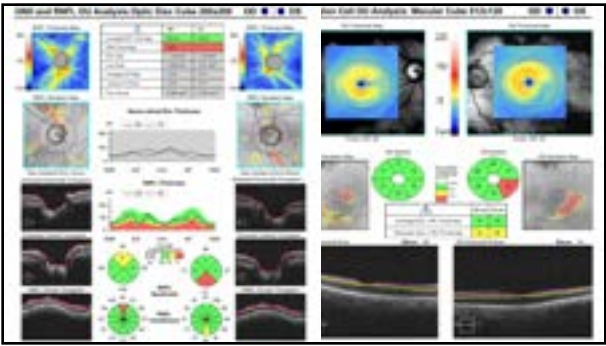
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*Does this patient have glaucoma?!*

103

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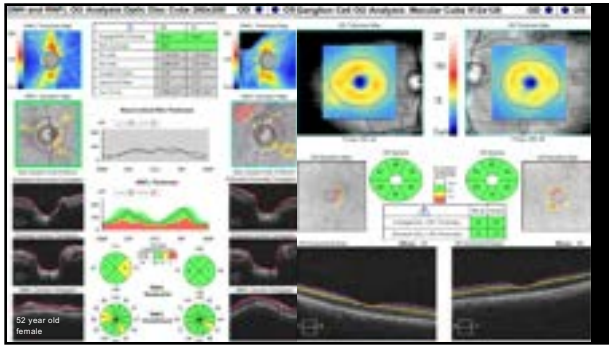
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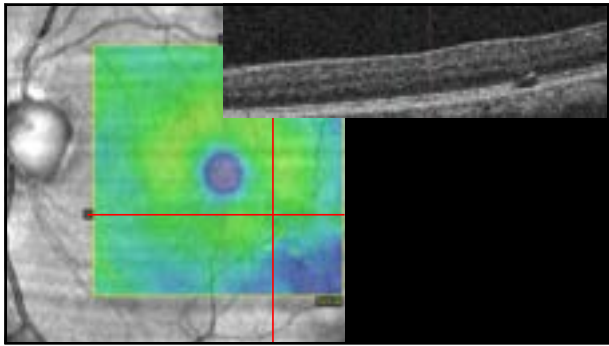
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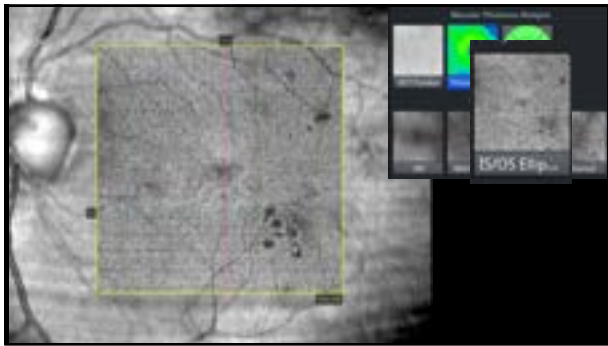
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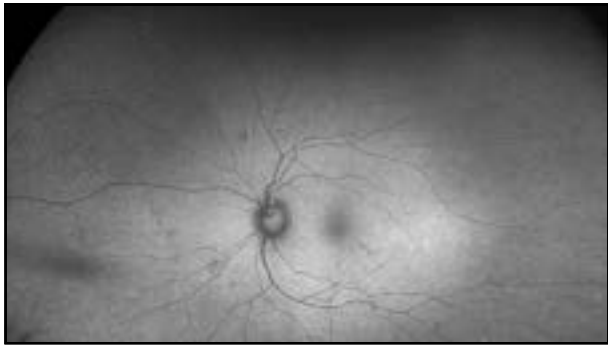
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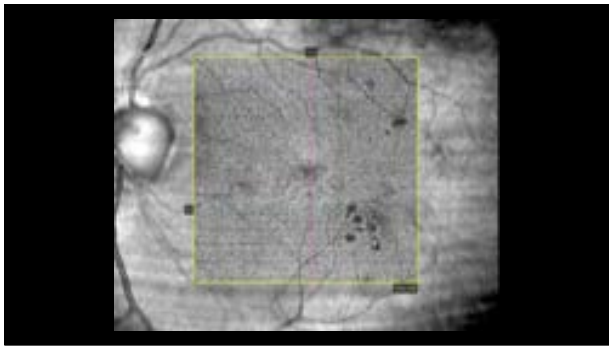
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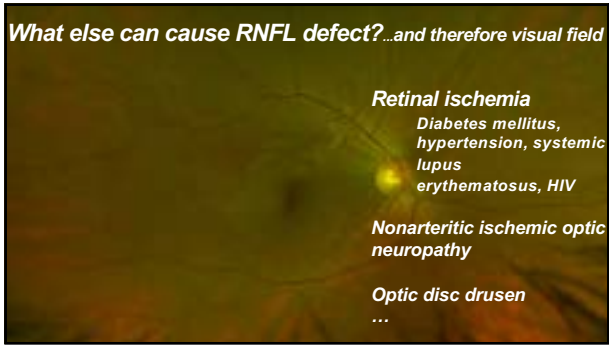
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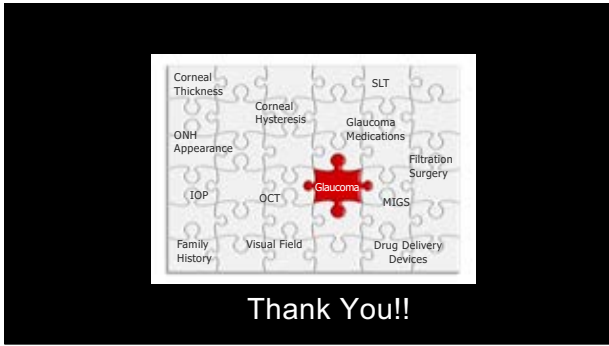
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