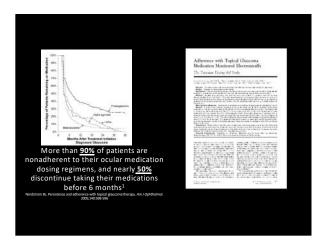


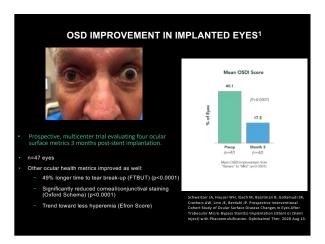
### Financial Disclosure – Justin Schweitzer, OD, FAAO • Aerie – C/L • Equinox - I • Alcon – C/L • Reichert - C • Allergan – C/L • J&J – C/L • Bausch + Lomb - C/L • Glaukos - L Ocular Therapeutix - C • Horizon – C • EyePoint - C • Quidel – C • Sight Sciences – C • Zeiss - C • Dompe - C

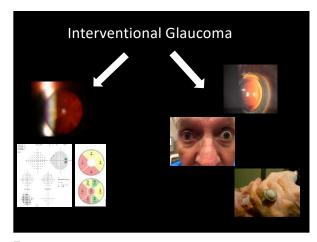
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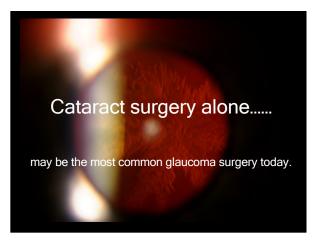




Minimally or Micro Invasive Glaucoma Surgery (MIGS)

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





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Cataract Surgery and Rate of Visual Field Progression in Primary Open-Angle Glaucoma.

im JH<sup>1</sup>, Rabido A<sup>2</sup>, Morales E<sup>3</sup>, Estehi N<sup>3</sup>, Lee WS<sup>3</sup>, Yu E<sup>4</sup>, Alfi AA<sup>5</sup>, Nouri-Mandavi K<sup>3</sup>, Capriol J<sup>6</sup>

Useract
URPOSE: To test the hypothesis that cataract surgery slows the apparent rate of visual field (VF) decay in primary open-angle issueome patients compared with rates measured during cataract progression.
ISSIGN: Retrospective cerbot study.

METHODS: Conscilve open-angle glaucoma potients who underwent cataract surgery and who had >4 VPs and >3 years of follow up before and after surgery were eterospectively reviewed. Mean deviation (VID) rate, visual field index (VFI) rate, pointwise inver-regression (PLR), pointwise rate of change (PRC), and the Glaucoma Rate Index (GRI) were compared before and after cataract surgery.

surgery.

RESILITS: A total of 134 eyes of 99 patients were included. Median (interquantile range) follow-up was 6.5 (4.7-8.1) and 5.3 (4.0-7.3) years before and after cateract surgery, respectively. All intraocutar pressure (OP) parameters (mean IOP) standard deviation of IOP) and peak IOP) significantly improved (P < .001) after cateract surgery. All VF indices indicated an accelerated VF decay rate after cateract surgery. MD rate (2.18 ± 0.40 dB/year vs -0.40 ± 0.62 dB/year, P < .001), VFI rate (-0.44% ± 1.09%)-year vs -1.9% ± 1.05%/year, P < .000), ORI (-0.55 ± 0.08 vs -1.35 ± 2.17%)-year vs -1.9% ± 1.05%/year, P < .000), ORI (-0.55 ± 0.08 vs -1.35 ± 2.17%)-year offer surgery. P < .001) and PLR (-0.20 ± 0.82 dB/year before and -0.42 ± 1.16 dB/year after surgery, P < .001) for all VFI locations. Where baseline MD and postoperative peak IOP were significantly associated with the postoperative VF decay rate and the drange in the decay rate after cateract surgery. Conclusions Affinished all IOP parameters improved after cateract surgery. VFa continued to progress Cateract surgery does not slow the apparent rate of glaucomatous VF decay as compared to rates measured during the progression of the cateract.

### Case 1:

69-year-old, Caucasian female referred for a cataract evaluation and opinion on her glaucoma. She states she is not taking her drop everyday because they burn and irritate her eyes. She states her vision seems blurry all the time.

### Ocular History

- POHX: Primary Open Angle Glaucoma OU
   PMHX: Hyperlipidemia, Hypertension
- FHX:
   Father glaucoma
- Previous Treatment Regimen: None
- Current Treatment Regimen:
   Latanoprost qd OU
- IOP max
   OD: 25 mm Hg
   OS: 25mm Hg

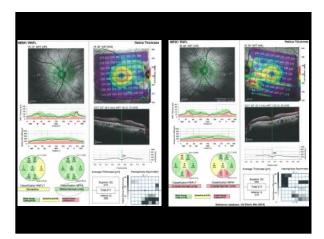
### Medical History

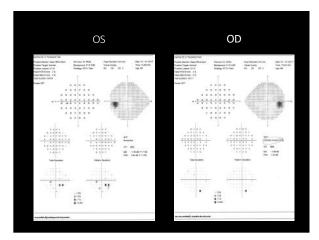
- All Medications: Atorvastatin, Norvasc
- Allergies: NKDA

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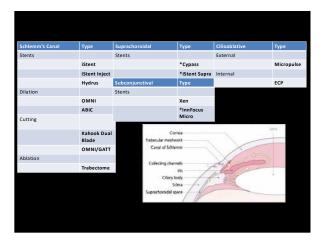
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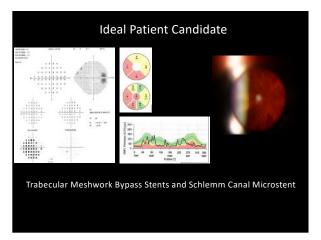




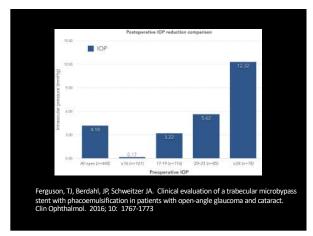
## Treatment Considerations SLT OU Prostaglandin analogue qd OU Cataract extraction + TM/Schlemm Canal Stent Cataract extraction + XEN/Filtration Procedure

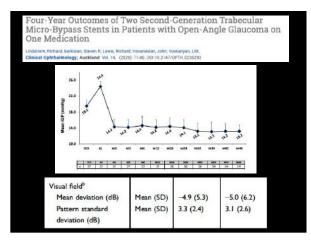


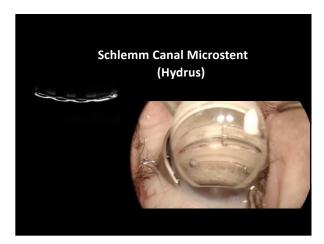




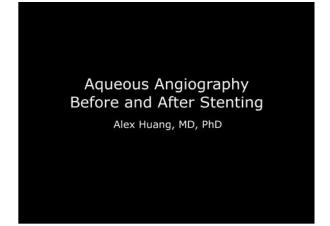


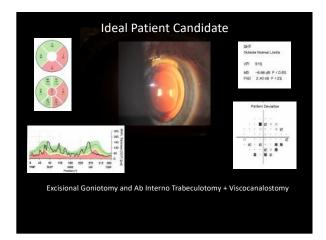


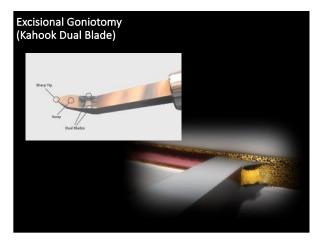


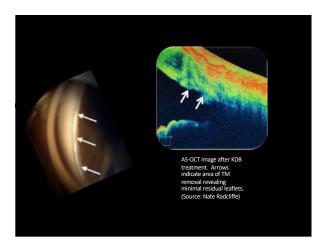


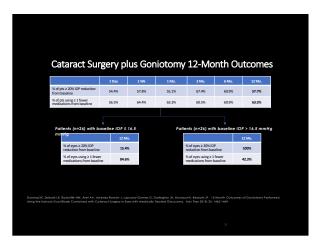
HORIZON Trial – 4 Year Update	
Stent + Cataract (n=369)	Cataract Only (n=187)
25.5 (+/- 3.0)	25.4 (+/-2.9)
65%	41%
16.7 (+/-3.1)	17.2 (+/-3.2)
16.9 (*/-3.3)	17.3 (+/-3.4)
52.6% 47.4%	54% 46%
	25.5 (+/- 3.0) 65% 16.7 (+/-3.1) 16.9 (+/-3.3) 52.6%

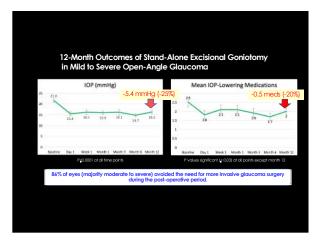






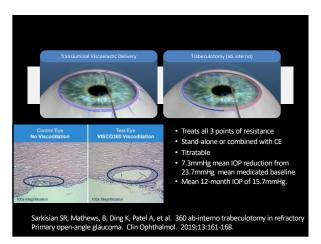


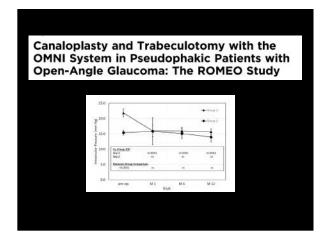


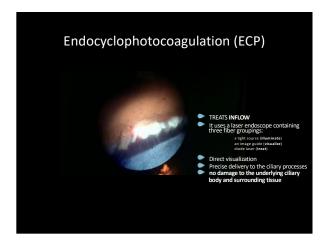


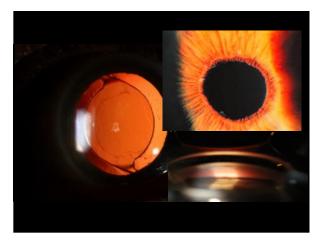


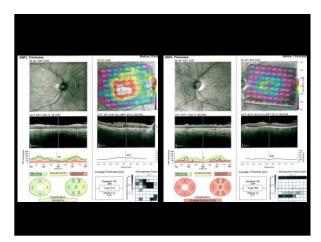


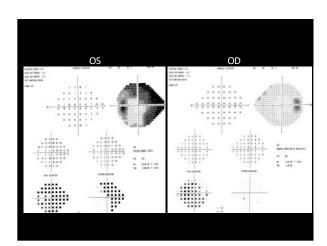


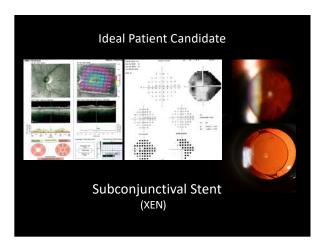


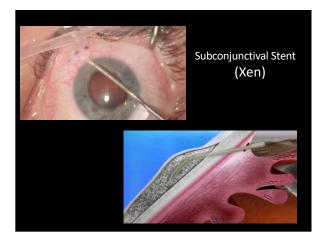




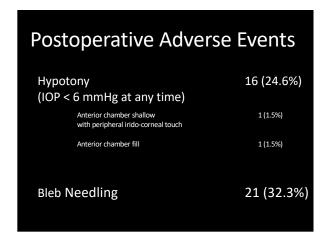


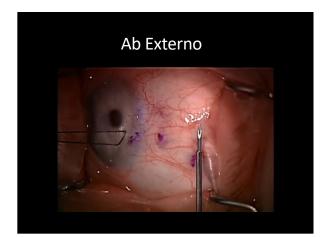




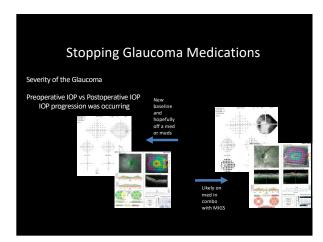


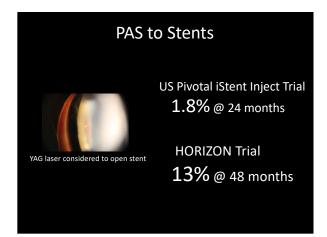
# Xen 45 Gel Stent: US Pivotal Clinical Trial Baseline 12 month Medicated IOP 25.1 (3.7) 15.9 (5.2) Glaucoma Meds 3.5 (1.0) 1.7 (1.5) 76.3% of patients reported a mean diurnal IOP reduction of ≥ 20% from medicated baseline at 12 months

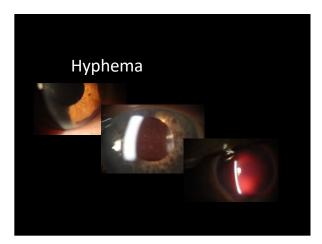


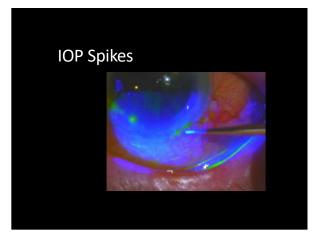


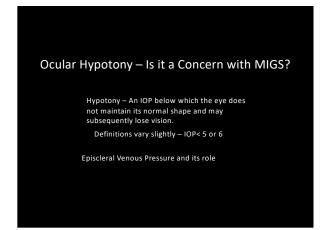


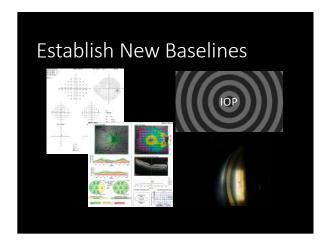












## In Conclusion...

- Glaucoma is both a <u>medical</u> and <u>surgical</u> disease
   Key to success is collaboration
- Trends in treatment aim to **balance** effectiveness and safety
- MIGS procedures allow for <u>interventional glaucoma</u>

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