

Financial Disclosures

- Consultant: Alimera, Allergan, A.N., Apellis, EyePoint, Genentech, A.stellas,,
 Ocular Therapeutics, Regeneron
- Speaker Contracted by Ineligible Company: Allergan, ANI, Apellis, EyePoint, Genentech, Astellas, Regeneron
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 Inflammasome, Nanoscope, Olives BioTherapeutics



IOP: SCS triamcinolone

Durability with suprachoroidal injection of triamcinolone acetonide injectable suspension for uveitic macular edema and use of rescue therapy in clinical practice

Michael Singer, Durga Borkar, Abhishek A. Nair, Andrew LaPrise, Kristian Garcia, Jod Fain, Teres a Brevetti, David 1 Harrison



IOP: SCS triamcinolone	
COP: SCS triamcinolone ackground: Tiamcind one acetonide injectable suspension for suprachoolidal use is a controsseroid indicated for the treatment of macular adema (ME) associated with uveits Supercitor dild administration is an opproprists y SCS Maconjactor is a technique in which drug is did lived to the space between the sclean and the choroid The med casho distributes in the suprachoolidal pages and is delivered directly to the resina and choroid, sparing the arist for chamber This minimisms the posinal for cashect (ramation another increased intracoular pressure In directly the school of the school	
	IOP: SCS triamcinolone **Reground: - Tiamind me acobinde injuctable suspension for suprachonoidal use is a conticosteroid indicated for the treatment of manular edema (ME) associated with uveits - Supenbra'dal administration via proprietary SCS Microlipicor is a technique in which drug is defined to the space between the scelen and the choroid - The medication distributes in the suprachonoidal space and is delivered directly to the resina and choroid, sparing the marter of name the cap relative to subject of first injection was assessed, however all indirectly the state of the control of the con

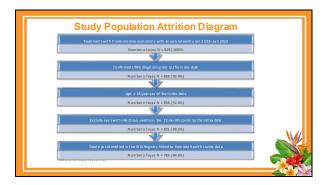


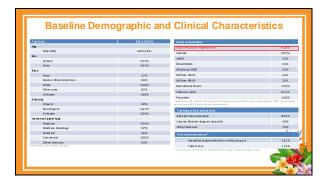
IOP: SCS triamcinolone

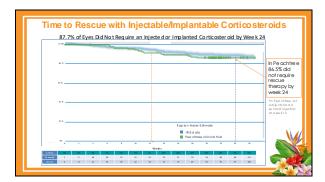
- Patients ≥18 with a diagnosis of non-infectious UME and a suprachoroidal injection of triamcinolone acetonide after January 2022 were identified in the American Academy of Ophthalmology IRIS® Registry (Intelligent Research in Sight)
- The date of the first suprach oroidal injection defined the index date
- IRIS data was linked to Komodo open-source claims data (Jan 2022 to Jun 2023) using the Datavant token to identify conficosteroid use
- Rescue was defined as use of injectable, implanted, or topical conficosteroids after the initial triamcinolone acetonide suprachoroidal injection
- Patients were followed for 24 weeks after their injection for duration
- As ub-study was performed on IOP: patients followed for 48 weeks

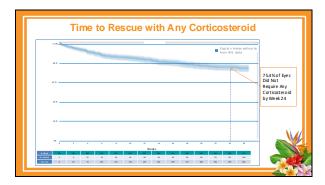


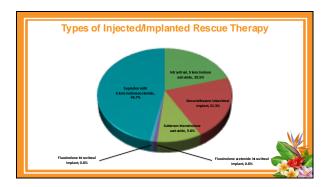
IOP: SCS triamcinolone Results





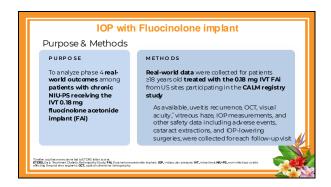


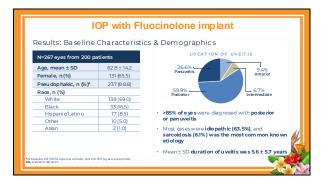


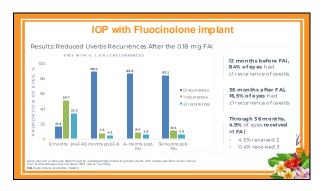


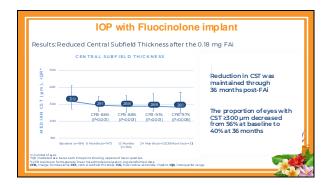
- Only 12%% of patients with UME required a subsequent injected or implanted corticosteroid in the 24 weeks after a single suprachoroid al injection of triamcinolone
- Suprachoro idal triamcinolone was used in 45% of patients who had a second injectable/implantable corticos teroid
- An add it i onal 12% of patients used only a topical corticosteroid in the same time period
- -A second suprachoroidal in jection 12 weeks after the first was only seen in 2.4% of patients and does not appear to be part of routine practice
- By comparison, all subjects in the Peachtree clinical trial were required by protocol to have a second su prachoroidal injection at week 12
- These results are similar to those of the Peachtree trial in which 13.5% of subjects required rescue by week
- In addition, nearly half of these patients a history of ocular hypertension or glaucoma and over half had prior steroid use suggesting that there were chronic, hard to treat patients

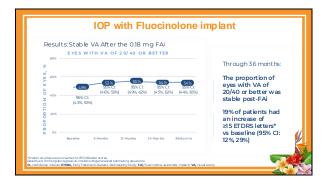
IOP with I	Fluocinolone implant
CALM	CALM: 36-month safety outcomes with the 0.18 mg intravitreal fluocinolone acetonide implant for non- infectious uveitis
	Michael Singer, MD1 ZALM REGISTRY STUDY INVESTIGATORS PPORTING CLINICAL SITES
¹ Medital Center Opht hismology Associates, San Antonio, TX	

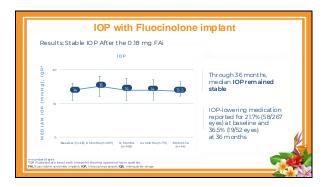


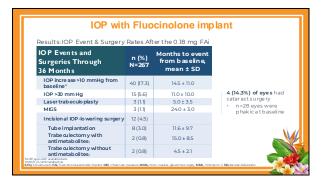












IOP with Fluocinolone implant

Limitations

- Participating sites examined and managed patients using their own protocols
- Investigators were not able to completely ensure control and consistency over data collection and input due to the retrospective nature of the study
- Pre-FAi treatment data was not collected
- Participants could be added into the registry at any time after the FAi was implanted, leading to variable rates of follow-up
- Administration details of IOP-lowering medications were not reported in the study

FAI, flux inobne acetonide impler

IOP with Fluocinolone implant

Conclusions

- The 0.18 mg IVT FAi is indicated for the treatment of chronic NIU-PS¹
- Evidence from this real-world registry builds on controlled clinical studies²⁻⁴
- The 0.18 mg FAi provided longterm improvements in inflammatory flares, with no new safety signals

THREE YEARS

- Substantial reduction in rate of uveitis flares vs
 pro-EAi
- Improved OCT findings and stable vision

k fluor inclone astonide implant IVI, intravitres / NU-95, non-infection uveits affecting the post elect segment OCT, optical charants intropractly (UTC, Perceiling Information, Ammentainense, Inc.) une, 2012, Singer NK, et al. Cybridomins. Sarpt Care a Integring Reima 2012; (1):56 3:50. 3. Persish A et al. Interview of the Communication of th

IOP with Fluocinolone implant

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- Parekh A, et al. Risk factors associated with intraocular pressure increase in patients with
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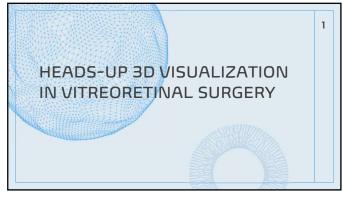
 Singer MA, Ed. I, IOP elevation in patients treated with fluorino lone aceton ide insert for chronic non infectious uveits affecting the posterior seg ment. Oph thal linic Surg. La sers Imaging Petina 2011;5(7):387-390.

 YUTIQ. Prescribing information. Allmea Sciences, Inc. June, 2023. https://liningcom.

Conclusion

- · Different sustained delivery steroid medications are able to control infla mmation.
- Study design and primary outcome differ by medications
- They seem to decrease the treatment burden of disease
- However on e has to balance safety and efficacy as:
- They all have side effects including cataracts and increased IOP.

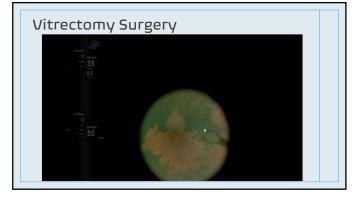




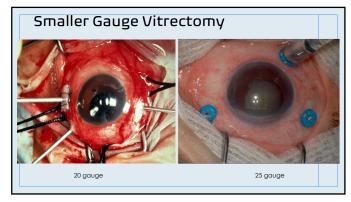
Disclosures

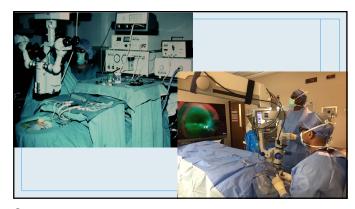
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- Consultant: Alimera, Allergen, Alcon, Genentech, Ocuphire Pharm, Ocular Therapeutics, ANI Pharmaceuticals
- Investigator: Alimera, Genentech, Inc., Jaeb Center for Health Research, Regeneron, Novartis, Ocuphire Pharm, Parexel, Ocular Therapeutics
- Speaker: Genentech, Inc., Apellis, Astellas, Regeneron

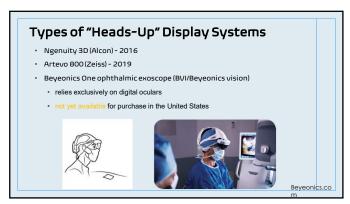
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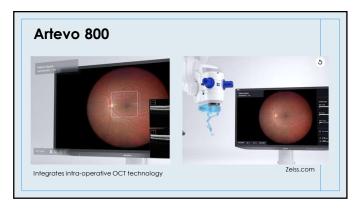


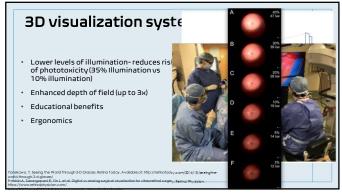














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Disability from musculoskeletal issues in ophthalmology is real! - AAO survey: 51.8% ophthalmologists have neck, upper extremity or lower back MSK symptoms - Retina specialists: 55.4% back + neck pain, 21.4% back pain, 8.3% neck pain - Quality of Life + Financial loss due to temporary/permanent disability - Dimitrik. McGwin 6. McNed 5; et al. Symptoms of musculoskeletal disorders in ophthalmologists. Am J Ophthalmol. 2005; 13(1):179-181. Mars. J. Wartz F. Dimitrik. Work-related musculoskeletal disorders in ophthalmologists. Techniques in Ophthalmology. 2005;3(1):54-61. Doesd URT, Abdulah. MW. Bhatti N. Occupational Back and Nech Problems in Vitre overeinal surgeons. Paper presented at: the American Society of Rento Specialists. Nechol Mening. Services. Open 2015.

ENHANCED Visualization

- 19% greater magnification than traditional scope
- 3x Enhanced depth of field: more profound in older surgeons
 - Presbyopia correlated with more gain in depth of field!





13

IMPROVED Visualization

- Excellent resolution not just better picture, also improved stereopsis^{2,5}
- Color manipulation with filters, gain adjustment to better visualize
 - Vitreous hemorrhage
 - Fluid air exchange- decrease glare



 Chow DR. NGENUITY: Is 30 surgery associated with increased stereopsis—myth or fact? Presented at ASRS. August 11-17, 2017. Bost 5. Franklin A, Sarangapani R, Yin L, et al. Digital via analog surgical visualization for vitreoretinal surgery. Retinal Physician. https://www. issues/2017/mov.2017/digital-vis-analog-surgical-visualization-for-vitre.

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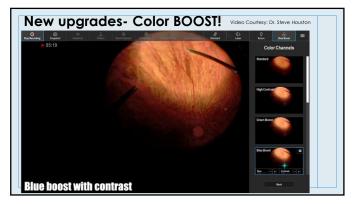
Ergonomics- One of the Biggest PROs

- Better posture all day- relax spine
- Potentially add years to your career!
- Less headaches (from accommodation)



 Yonekawa Y, Seeing the World Through 3-D Glasses. Refina Today. Available at: http://retinatoday.com/2016/10/seeingthe-world-through-3-d-glasses/ S-Frankish A, Sarangapani R, YinL, et al. Digital vis anatog surgical visualization for viteoretinal surgery. Refinal Physician. https://www.refinalphysician.com/ Subset/2017/more/2017/digital-vi-anatog-avarical-visualization-for-viteoretinal.



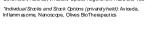




Increased Intraocular Pressure in Steroid Studies Michael Singer, M.D. Preston O'Brien, M.S. Clinical Professor of Ophthalmology UT Health San Antonio Director of Clinical Research Medical Center ophthalmology San Antonio TX

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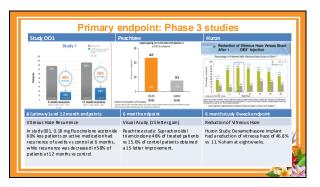






Phase 3 Studies for Posterior Uveitis

- * Huron Study: Dexamethasone implant, had a reduction of vitreous haze of 46.8% vs 11.8% sham at eight weeks.
- Peachtree Study: Suprachoroidal triamcinolone, 46% of treated patients vs 15.6% of control patients obtained a 15-letter improvement at 6 months.
- In Study 001, 0.18 mg Fluocinolone acetonide 60% less patients on active medication had recurrence of uveit is vs control at 6 months, while recurrence was decreased in 58% of patients at 12 months vs control.



What are the adverse events of concern?
Cata racts: Surgically Curable
Increased IOP: (what keeps you up at night!)

Cataract Inciden	ce (as documented	as adverse event)
Fluocinol one (Study 001)	CSA-TS (Peachtree)	Dexamethæone i mpl ant (Huron)
56% vs 23% control	7.3% vs sham 6.3%	15% vs 7 %
Not all of t	hese cataracts underw	vent surgery



Fluocin	olone implant- S 6-month Data	
IOP-related Outcome, n (%)	Flu ocino lon e i mpl ant N=87	Sham N=42
Overall IOP >2 1mm Hg at any po st baseline visit	24 (27.6%)	7 (1 6.7%)
IOP el evation ≥12 mmHg change fro m bas elin e at any post b aseli ne visit	12 (13.8%)	2 (4.8%)
IOP el evation ≥30 mmHg absolu te reading at any post baseline visit	9 (1 0.3%)	0
Any IOP-lo wering medication	18 (20.7 %)	8 (1 9.0%)
Any surgical intervention for an elevated IOP	2 (2.3%)	0

Dexame	Dexamethasone Implant: Huron		
IOP-related Outcome, n (%)	Dexamethasone implan t related Outcome, n (%) N=76		
Highest number of patients with IOP elevation ≥10 mmHg change from baseline at any visit	8/71 (11.3%) Week 6	1 (1.5%) Week 6	
IOP elevation ≥35 mmHg absolute reading at any post baseline visit	3 (4.1%) Week 12	0 (0.0 %) Week 12	
On IOP-lo wering medication at wee k 26	13 (16.9%)	7 (9.2%)	
Incisional surgery for an elevated IO P Adverse Event	0	0	

		Control	Control
IOP-related Outcome, n(%)	CLS-TA 4.0 mg N=96	(with local corticosteroid rescue) N=38	Control (without local corticosteroid rescue) N=18
Ele vate d IOP Ad verse Even ts*	11 (11.5%)	10 (26.3%)	0 (0%)
IOP elevation≥10mmHg change from baseline at any visit	9(9.4)	8 (21.1%)	0 (0%)
IOP elevation≥30mmHg absolute reading a tany post base line visit	5(5.2)	4 (10.5%)	0(0%)
Given any a dd itio nal I OP- lowering med icat ion	7(7.3%)	6 (15. 8%)	0 (0%)
Any surgical in tervention for an elevated IOP Adverse Event	0	0	0

IOP and Steroids: A deeper dive

- Dex implant in real life studies
- Fluocinolone Calm study and Pivotal (Study 001) looking at $\underline{\text{IOP ove}} \text{r} = \underline{30}$
- Iris registry of suprachoroidal triamcinolone



IOP in dex implant studies: increased IOP rate: 20-25%

- Chrome Study Canada: increased IOP, 120 eyes total with a total of 24 events for DME (25.0%; 6/24), RVO (27.6%; 8/29), and uveitis (10.0%; 2/20) patients
- Safode x study: Among 1,000 intravitreal injections, ocular hypertension was recorded for 28.5% of injected eyes over a mean follow-up period of 16.8 months (3-55)
- Geodex study: Amongst 294 intravite al implants, ocular hy pertension (>25 mmHg) was recorded in 0, 8 and 9.5% in White, Latino, and South Asian groups, respectively. However, IOP > 20 mmHg was recorded in 14%, 28% and 27% in White, Latino, and South Asian groups, respectively. Incidence of very high IOP (>35 mm Hg) was lower in all geographical groups. It was 3% in Latino followed by 2% in South Asian group.

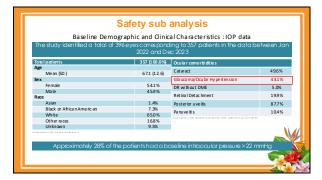
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Introduction		
		

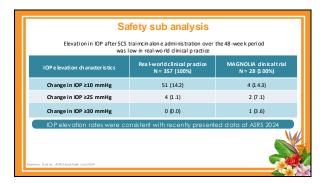
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Patients were followed for 24 weeks after their injection for duration
As ub-study was performed on IOP: patients followed for 48 weeks

IOP: SCS triamcinolone
Results

Safety sub analysis

Safety sub analysis IOP Data: • A subset of the original data set was used to obtain IOP data for 48 weeks





Safety sub analysis Elevation in IOP after SCS triamcinolone administration over the 48-week period was low in real-world clinical practice IOP elevation characteristics Change at 6 weeks Change at 12 weeks Change at 24 weeks 47 (13.2%) Change at 48 weeks 51 (14.2%)

Safety sub analysis Elevation in IOP > 25 after SCS tria maintended administration over the 48-week period was low in real-world clinical practice IOP elevation characteristics Real-world clinical practice N = 4 (100%) Change at 12 weeks 2 (0.55%) Change at 24 weeks 1 (0.28%) Change at 48 weeks 1 (0.28%)

Safety sub analysis

Conclusion:

- Only 12% of patients with UME required a subsequent injected or implanted corticosteroid in the 24 weeks after a single suprachoroidal injection of triama notone
- Only 14.2% patients experienced an elevated IOP of ≥10 mmHg at 48 weeks in real-world clinical practice despite 43.1% of patients with a history of glau coma.
- The se changes o courred at 6,12, 24,and 48 weeks
- 1.1% patients with an elevated IOP of ≥25 mmHg and these occurred at 12, 24, and 48 weeks.
- No pall ents with an elevated IOP ≥30 mmHg muth lower than that observed in the Magnolia clinical trial
- SCS triamcinol one should be considered in patients with history of glau coma or at risk for steroid induced ocular hypertension
- Follow up for these patients could be at month 1, 3, 6 and every 3 months subsequently to capture this in crease of 10mm Hg of IOP

	IOP with Fluocinolone implant	\Box
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IOP with Fluocinolone implant

Fluocinolone Acetonide Intravitreal Insert for NIU-PS: Significant IOP Elevations Through 36 Months

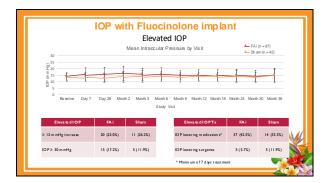
Michael A Singer, M D, Clini cal Professor of ophtha Imology, University of Texas Health Science Center, SanAntonio, TX

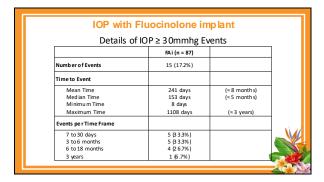


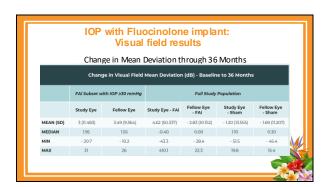
IOP with Fluocinolone implant

Objective:

- Uveitis has long been associated with elevated intraocular pressure (IOP)
- Corticosteroids, widely used to treat non-infectious uveitis affecting the posterior segment (NIU-PS), are known to decrease a queous humor outflow and increase I OP
- This analysis was initiated to characterize the timing and severity of significant IOP elevation in eyes treated for NIU-PS using a single 0.18 mg fluocino on e acetonide intravitreal (FAi) insert for 36 months.







IOP with Fluocinolone implant

Discussion:

- IOP elevation in the FAi and Sham groups were similar and primarily man aged using standard topical IOP lowering medications
- Fifteen eyes (17.2%) treated with FAi had IOP elevations to≥ 30 mmHg
 - One-third of the events (5) occurred between 7 days and 1 month.
 - One-third of the events (5) occurred between 3 and 6 months
 - Delayed events happened between 6 and 18 months (4) and at 3 years (1)
- Overall, FAi had no significant impact on the progression of visual field loss in this subset of study patients through 36 months when compared to the fellow eye
- The pattern of significant I/OP events suggests that evaluations within the first mon th, 3, and 6 months; and every 3 months thereafter, could detect the majority of severe I/OP increases

CALM: 36-month safety outcomes with the 0.18 mg intravitreal fluocinolone acetonide implant for non-infectious uveitis Michael Singer, MD1 ON BEHALF OF THE CALM REGISTRY STUDY INVESTIGATORS AND SUPPORTING CLINICAL SITES

CALM: 36-month safety outcomes with the 0.18 mg intravitreal fluocinolone acetonide implant for non-infectious uveitis To be reported by Dr. Sumit Sharma

CALM: 36-month safety outcomes with the 0.18 mg intravitreal fluocinolone acetonide implant for non-infectious uveitis To be discussed by Dr. Sumit Sharma

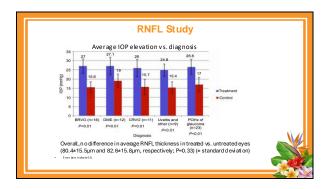
Does Increased IOP Cause Long Term Optic Nerve Damage?

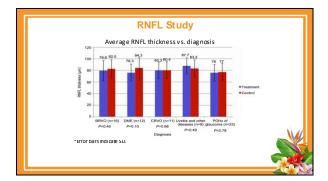
RNFL Study Background: - 27-32% of eyes tre ated with Dex implant® implant have transient IOP elevations Increased IOP is a risk factor for glaucomal ¹² - Safety and efficacy profiles well-established for - However, no study has been performed using OCT datatio evaluate RNFL tribiness in those that have IOP spikes (Visual field are unreliable in RVO) - Commandation of the spikes (Visual field are unreliable in RVO) - Commandation of the spikes (Visual field are unreliable in RVO)

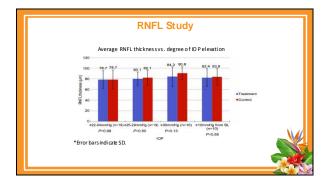
	RNF	L Study	
Results:			
	Demographics (r	n= 48 pa tie nts – 96 eyes)	
Age (yrs)		72.7	
Sex	Male	51%	
	Female	49 %	
Race			
	White	57%	
	Hispanic	29%	
	Black	1%	
	Other	13 %	
Diagn osis			
	BRVO	34%	
	DME	25 %	
	CRVO	23%	
Other including	Uveltis	6%	
	CME	6%	
	wAMD	4%	

Results:

RNFL Study Average IOP of untreated eye at time of IOP spike: 16.5 ± 3.6 mmHg (P = 0.00) Mean central conneal thickness 569µm (tea ted), 57 µm (control); P=0.61 ≥ 1 IOP overing drop used: 76% (± stand and deviation) Results: Histoy of Glaucoma: 48% Meantime between initial IOP spike and CCT imaging: 18 months; median: 13.5 months) Meannumber of Dex implant before IOP spike: 2.1 (range: 1–12). Average IOP spike: 26.4 ± 4.3 mmHg Range: 22–38mmHg







Condusions

RNFL Study IOP spikes 2 22 mm Hg after Dex implant implantation de monstrated no significant difference in the average RNFL thickness compared to control, regardess of diagnosis or hist ory of glaucoma ns sory or garcona 10P > 2D mmHg or > 10 mmHg from baseline did NOT demonstrate significantly thinner RNFL compared to ontrol, regardless of magnitude of IOP elevation Topical IOP-lowering drops may be adequate in the management of temporary IOP spiles to prevent RNFL damage Temporary elevation of IOP after Deximplant implantation does not lead to meaningful changes in RNFL thickness, regardless of etiology or magnitude of IOP increase

Case Study]
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Conclusion

- Different sustained delivery steroid medications are able to control inflammation.
- Study design and primary outcome differ by medications
- However, they all have side effects including cataracts and increased IOP.
- The incidence of increased IOP varies by medication, but seems to be mana geable by topical medications as the incidence of surgical intervention is very low.
- In addition, data looking at the effects of increased in intraocular pressure do not seem to be associated with retinal nerve fiber layer damage.

Real World Studies in AMD and DME

Michael Singer M.D. Hannah Khan, MPH; Aamir A. Aziz, BS; Preston O'brien, BS; Arshad M. Khanani, MD, MA

Financial Disclosures

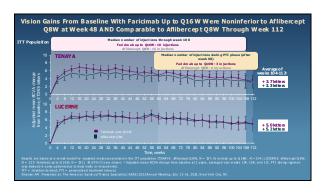
- Consultant: Alimera, Allergan, ANI, Apellis, EyePoint, Genentech, Astellas, , Ocular Therapeutics, Regeneron
- Speaker Contracted by Ineligible Company: Allergan, ANI, Apellis, EyePoint, Genentech, Astellas, Regeneron
- Independent Research Contractor: Allergan, Apellis, Ashvattha ,EyePoint, Genentech, Astellas, , Kodiak, Optos, Regeneron, Rezolute, Valo
- *Individual Stocks and Stock Options (privately held): Aviceda, Inflammasome, Nanoscope, Olives BioTherapeutics

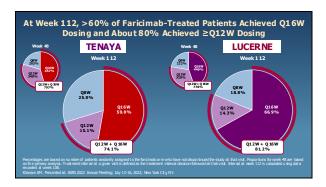
Medications are approved due to clinical trials

- However real -life studies may under or overperform the clinical trial results
- The differences are based on:
- Study design
- Patient population
- Disease studied
- Type of medication

Real life studies			
Faridmab: TRUCKEE for AMD TAHOE for DME			
Steroids for DME Reinforce : Dex implant Paladin: Fluocinolone implant			

Faricimab for AMD
Tenaya and Lucerne





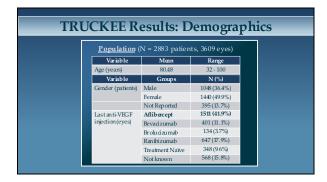
The Real-World Efficacy and Safety of Faricimab in Neovascular Age-Related Macular Preston O'brien, BS; Arshad M.
Khanari, MD, MA

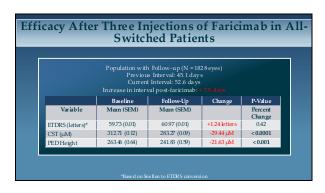
TRUCKEE Study — 3 Year Results

Michael Singer, MD

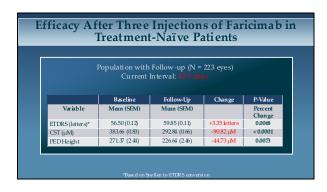
	Disclosures:
	Consultant: Alimera, Allergan, «ANI, Apellis, Eye Point, Genentech, Astellas, "Ocular The appeutix, Regene ton Speaker Contracted by Ineligible Company, Allergan, ANI, Apellis, Eye Point, Genentech, Astellas, Regeneron Independent Research Contractor: Allergan, Apellis, Asthvena, Eye Point, Genentech, Astellas, "Kodiak, Optos, Regene on, Rezolute, Valo
T	Individual Stocks and Stock Options (privately held): Aviada, Infarrmasome, Nanoscope, Olives BioThera peut os the TRUCKEE Study is a collaborative clinician directed and ganized study with no industry sponsor across multiple sites
×	in the US. CRO Services provided by Vial

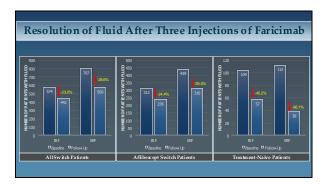




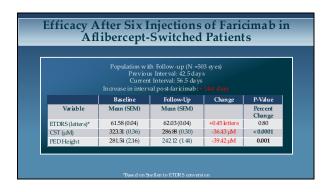


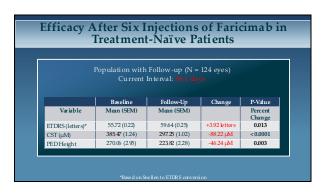
Efficacy Af Af	Efficacy After Three Injections of Faricimab in Aflibercept-Switched Patients					
	Population with Follow-up (N = 1042 eyes) Previous Interval: 44.0 days Current Interval: 50 6 days Increase in interval post-faricimals: 50 days					
	Baseline	Follow-Up	Change	P-Value		
Variable	Mean (SEM)	Mean (SEM)	ĺ	Percent Change		
ETDRS (letters)*	61.55 (0.02)	63.08 (0.02)	+1.53 letters	0.0943		
CST (µM)	31363 (0.18)	287.13 (0.14)	-26.50 μM	< 0.0001		
PED Height	256.00 (0.88)	242.26 (0.97)	-13.74 μM	0.018		
	,					

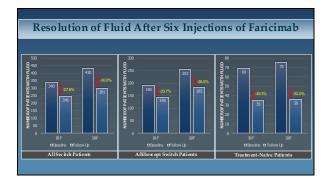


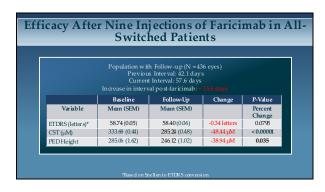


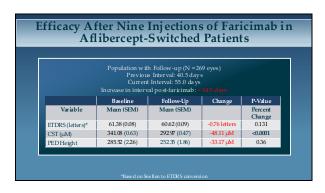
_	Switch	hed Patie	nts	_
Population with Follow-up (N = 863 eyes) Previous Interval: 43.8 days Current Interval: 57.1 days Increase in interval post-far kinab: v 183.0 days				
	Baseline	Follow-Up	Change	P-Value
Variable	Mean (SEM)	Mean (SEM)		Percent Change
ETDRS (letters)*	58.93 (0.03)	59.19 (0.03)	+0.26 letters	0.82
CST (µM)	321.30 (0.23)	284 (Б (0.19)	-37.11 μM	< 0.00001
PED Height	275.16 (1.01)	22650 (0.77)	-48.66 μM	< 0.00001

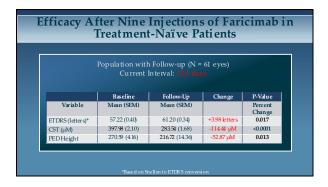


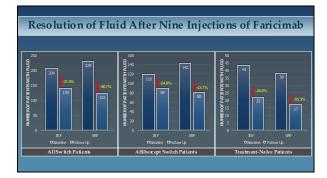


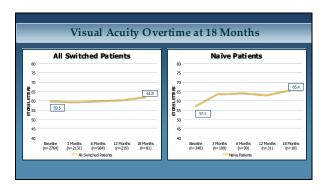


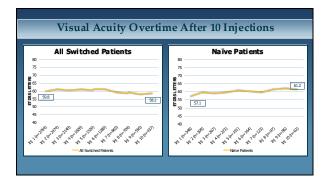


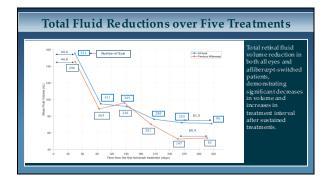


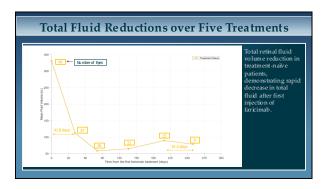








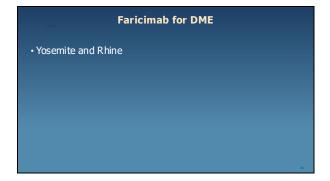


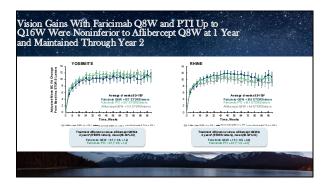


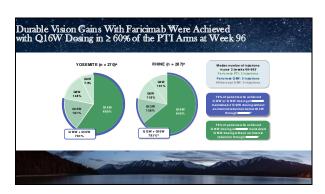
	Sat	fety Outco	nes	
Intrae	Numbero f Patients Numbero f Eyes Numbero f Injections scular Inflammation (IOI) Rate En do phthal mits Rate	2883 3609 20,176 0.08% 0.0297%		
Event	Number of Cases	Reso Ive d	VA Returned to Baseline	Ret to ated with Fa si cimab
Endophthalmitis	6* *Five cases were cult urepositive	6/6	6/6	4/6
Anterior Chamber Cells	2* *One case h ad p sevi ous in flammati on on buo lucizu mab	4/4	4/4	1/4
Uveitis	6	6/6	6/6	3/6
Iritis	*One case was bilateral; oth ereye un treated	2/2	2/2	2/2
Vitritis	"Two casesh ad p revi ous in flam mati on on buo lucizu mab	3/3	3/3	2/3
Non-occlusive Vasculitis	2*a *One patient with bilateral occurrence	2/2	2/2	0/2

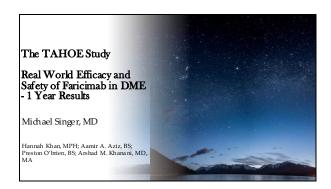
In a real-world setting, with 20,176 injections in 3609 eyes, farkimab continues to demonstrate rapid improvement in all anatomic parameters in both treatment-naïve and previously-treated patients. TakeAways TakeAways Patients switched to faricimab from affilercept had interval extension of 2 weeks after 6 faricimab injections. Faridmab demonstrates a low rate of IOI/endophthalmitis with one report of bilateral non-occlusive vasculitis. All events resolved and vision returned to baseline in all cases.





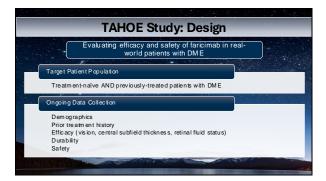


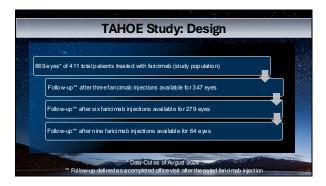




	Disclosures:
	nsultant: Alimera, Allergan, <ani, "ocular="" apellis,="" astellas,="" eye="" genenlech,="" lapeutix,="" on<br="" point,="" regene="" the="">eaker Contracted by Ineligible Company, Allergan ,ANI, Apellis, Eye Point, Genenlech, Astellas, Regeneron</ani,>
Inc	dependent Research Contractor: All erg an, Apellis, Asthvena, Eye Roint, Gen entech, Astellas, Kodiak, Optos, Regene rgn, Rezolute, Valo
	dividual Stocks and Stock Options (privately held): Aviced a, Inflammasome, Nanoscope, Olives 3oThe a peutics
	he TAHOE Study is a collaborative clinician directed and anized study with no industry sponsor across multiple sites
	in the US.
34.20	CRO Services provided by Vial

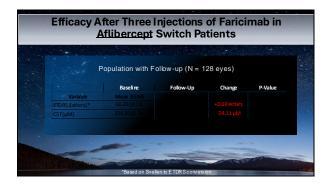


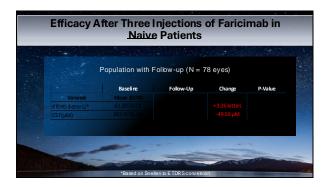




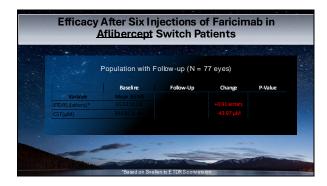


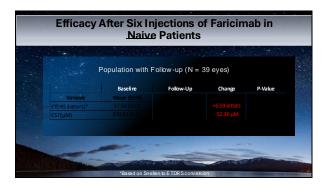
Efficacy.	After Three I <u>A</u> LI Swit	njections tch Patien		mab in	
	Population with F				
Variable	Baseline Mean (SEM)	Follow-Up	Change	P-Value	
ETDRS (letters)* CST(μΜ)					
	-				
THE PARTY NAMED IN	*Based on Snel	len to ETDRS convers	ion		neral





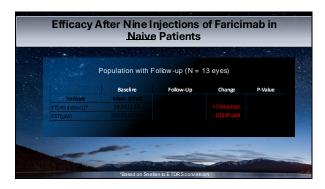
	Efficacy	After Six In	jections o tch Patien		ab in	
		Population with F				
		Baseline	Follow-Up	Change	P-Value	
	Variable ETDRS (letters)* CST(μΜ)	Mean (SEM) 62.68 (0.13) 340.53 (0.39)				
-						
		-				
	TE TO	*Based on Snel	llen to ETDRS convers	ion	3"	AFFE

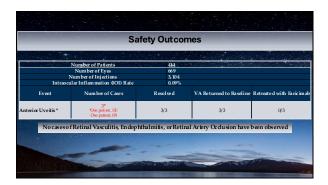




		tch Patien			
	Population with F				
	Baseline	Follow-Up	Change	P-Value	
Variable	Mean (SEM)				
ETDRS (letters)*					



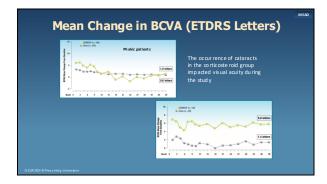












REINFORCE: A Prospective
Multicenter Study of Dexamethasone
Intravitreal Implant (DEX) in
Diabetic Macular Edema (DME)

Michael A. Singer, MD1; Pravin U. Dugel, MD2; Howard F. Fine,
MD3; Antonio Capone, Jr, MD4; John Malman, PhD5

Introduction

- Dexamethasone in travitreal implant (DEX) has shown efficacy in patients with diabetic macular edema (DME) in controlled trials
- Data on real-world outcomes in DME patients receiving DEX as monotherapy or adjunctive therapy are limited

To assess the effectiveness, safety, and real-world use of DEX in clinical practice in patients with DME

Study Design / Methods

- Prospective, multicenter, observational registry study
- Hospective, multicerter, observational registry study
 Study did not provide, nor require by protocol, any treatment beyond the initial DEX treatment required for registry indusion
 Outlain history, treatment, and outcomes data were collected at the patient's first DEX injection and each subsequent visit up to 1 year
 Assessments and schedule of follow-up visits at the discretion of the physician
 Amount of data collected depended upon the number of follow-up visits
 Shellen visital autity was converted to approximate ETDRS latters for analysis using the method of Gregori et al.

- Primary Projects

 Mean maximum BCVA change (best improvement) from baseline following each DEX injection

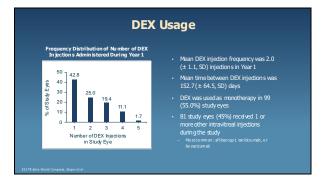
 Per certage of patients with ≥15-letter improvement in BCVA

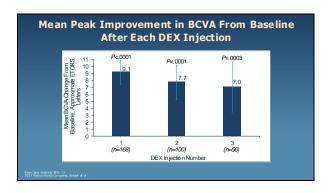
 Average improvement in BCVA (area-under-the-curve [AUC] approach)

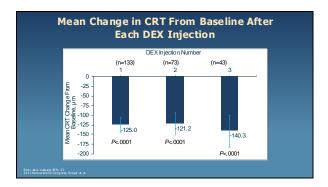
Baseline Patient Demographics and Study Eye Characteristics

Parameter	Patient Population (N=177)	Stud y Eyes (N=180)*,b
Mean age (range), years	67.0 (38-90)	
Male, %	52.5	
White, %	84.2	
BCVA (n = 172) Mean (range), approximate ETDRS letters Mean (range), Snellen equivalent		54.4 (0-85) -20/80 (CF20/20)
Mean CRT (range), µm (n = 140)		424.6 (179-920)
Mean IOP (range), mm Hg		15.2 (8-27)
Phakic, %		29.4
Pseudophakic, %		60.6

Baseline Diabetes (and Previous 1	
Characteristic, n (%)	Patient Population (N=177)
Diabetes duration >15 years	92 (52.0)
Type 2 diabetes	121 (68.4)
HbA1c ≤8%	30 (16.9)
HbA 1c >8%	6 (3.4)
Missing HbA 1c data	141 (79.7)
Nonis chemic DME perfusion status	113 (63.8)
Is chemic DM Eperfusion status	8 (4.5)
Nonapplicable or missing DM E perfusion status	56 (31.6)
DMEduration ≥1 year	118 (65.6)
Previous DME treatment	166 (93.8)
Previous laser	63 (36.6)







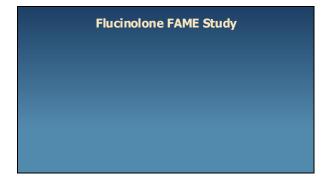
Outcome Measure	Result	P Value
Percentage of study eyes with ≥15-letter improvement in BCVA from baseline during the study	36.0% (62/172)	
Mean a verage improvement in BCVA from baseline during the study using the AUC approach (95% CI)	3.6 letters (2.3, 5.0)	
Mean maximum change in BCVA from baseli ne du il ng the study (95% CI)	11.7 letters (10.0, 13.5)	<.0001
Mean maximum change in CRTfrom baseline during the study (95% CI)	-137.7 µm (-158.2, -117.3)	<.0001
Percentage of study eyes achieving BCVA of 20/40 or better and CRT ≤300 µm at the same visits	19.4% (19/98)	

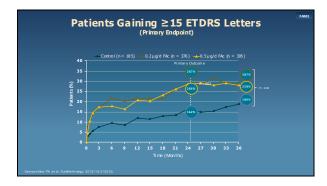
Incidence of Adverse Events	
AllAdverse Events Repo	rte din 3 or More Patients
AdverseEvent,n (%)	Patient Population (N=177)
Any adverse event	69 (3 9.0)
IOP incre ase d	11 (6.2)
Co njun ctiva I hem or rhage	8 (4.5)
Vitre ou s floa ters	7 (4.0)
Dry eye	6 (3.4)
Oc ular hypertension	6 (3. 4)
Post erio r c aps ule o pa cificat ion	6 (3.4)
Gla uco ma	5 (2.8)
Macu bir fibrosis	4 (2.3)
Vision blu re d	4 (2.3)
Ca tar act	3 (1.7)
Eye pain	3 (1.7)
Pho top sia	3 (1.7)
Vitre ou s de tach me nt	3 (1.7)
Vitre ou s he mo rr hag e	3 (1.7)

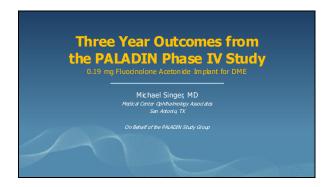
IOP Parame	ters
Parameter, n (%)	Study Eyes (N=180) ^a
At any time during the study	
• IOP≥25 mm Hg	22 (122)
• IOP≥35 mm Hg	5 (2.8)
 IOP increase of ≥10 mm Hg from b ase line 	23 (12.8)
41 (22.8%) patients used IOP-lowering med Noglaucoma surgeries were reported	

Adverse Event, n (%)	Patient Population (N =177)		
Any adv ers e e vent	69 (3 9.0)		
IO P incre ase d	11 (6.2)		
Co njun ctiva I hem or rh age	8 (4.5)		
Vitre ou s floa ters	7 (4.0)		
Dr y eye	6 (3.4)		
Oc ular hyp er ten sion	6 (3.4)		
Post erio r c aps ule o pa cificat ion	6 (3.4)		
Gla uco ma	5 (2.8)		
Macuarfibrosis	4 (2.3)		
Vision blume d	4 (2.3)		
Ca tar act	3 (1.7)		
Eye pain	3 (1.7)		
Pho top sia	3 (1.7)		
Vitre ou s de tach me nt	3 (1.7)		
Vitre ou s he mo rr hag e	3 (1.7)		

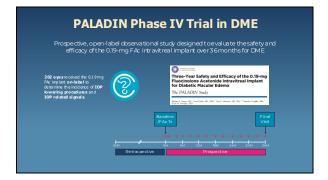
Conclusions	
 In real-world clinical practice, DEX monotherapy and adjunctive therapy improved BCVA and CRT in patients with DME 	
No new safety concerns were identified	
2017E dea World Cuopeus, Sagar et al	

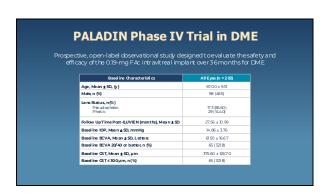


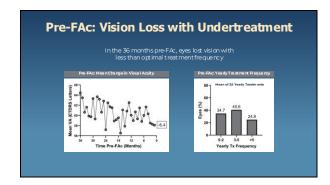


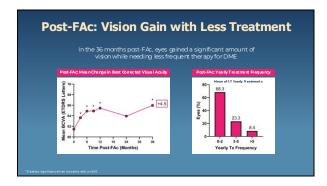


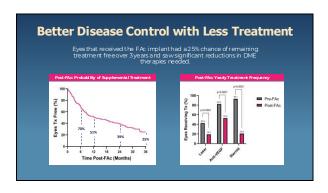
PALAC	DIN Phase IV Trial in DME
	abel observational study designed to evaluate the safety and D.19-mg FA: intravit real implant over 36 months for DME
202 eyes received the 0.19 mg Fix. implant on-label to determine the includence of IOP lowering procedures and IOP related signals.	
	Baseline /FAc Tx
	Retropective Prospective

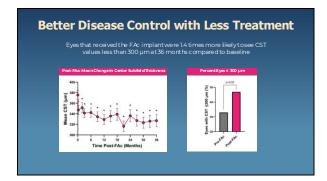
















PALADIN: FAc Remains Safe and Consistent over 36 Months

- Over 36 Months, the 0.19 mg FAc Implant Provided Improved Disease Control over Standard of Care

 - Significant Increase in Visual Acuity Significant Reduction in DME Therapies Significant Reduction in Macular Edema
- Additionally, the FAc Implant Remains Safe with a High Predictability of IOP Response from a Single Steroid Challenge
- The $0.1\,\mathrm{9mg}$ FAC implant provides a durable treatment option that reduces the burden of care for patients with DME

ľ		•	cl	пп		-

- Medicines are approved based on dinical trial data
- However clinical trials are a laboratory and may not be
- Real World studies give a perspective on what results a when using the medicines in clinical practice
- Sometimes the medicines under perform sometimes the medicines over

ndicative of real life doctor can expect		

Vasculitis after Intravitreal Injections

Michael Singer, M.D. Preston O'Brien, M.S. Clinical Professor of Ophthalmology UT Health San Antonio Director of Clinical Research Medical Center ophthalmology

Financial Disclosures

- Consultant Alimera, A llergan, ANI, Apellis, EyePoint, Genentech, Astellas, ,
 Ocular Therapeutics, Regeneron
- Speaker Contracted by Ineligible Company. Allergan, ANI, Apellis, EyePoint, Genentech, Astellas, Regeneron
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- *Individual Stocks and Stock Options (privately held) Aviceda, Inflammasome, Nanoscope, Olives BioTherapeutics



Objectives

- Understand the hypersensitivity mechanisms relevant to retinal therapies.
- Review intravitreal injection-associated vasculitides, including: vancomycin, brolucizumab, pegcetacoplan, aflibercept 8mg, ocular ischemic inflammation, and faricimab.
- Discuss diagnostic tools and management strategies.



Hypersensitivity Reactions					
Mechanism	Examples in Ophthalmology				
Immediate, IgE-mediated (e.g., peanut allergy)	Anaphylaxis, angioedema				
Cytotoxic, antibody-mediated	Blood transfusion reactions				
Immune complex-mediated, complement activation	Brolu cizu ma b-ass oci ate d va scu li tis, HORV (Va nc omyc in-ass oci ate d), Fa ric im ab/aft liberce pt-ass oci ate d vasc ulitis				
Delayed, T-cell-mediated	Pegcet aco plan -ass oci ate d vasc ulop athy and choro id itis, 8m g Afli be rcept -ass oci ate dva scu li tis				
	Me chanis m Immediate, IgE-mediated (e.g., peanut allergy) Cytotoxic, antibody-mediated Immune complex-mediated, complement activation				

Hemorrhagic Occlusive Retinal Vasculitis (HORV) Cause: Likely a Type III Hypersensitivity Reaction (immune complex

deposition).

Inciting Agent Prophylactic intracameral vancomycin during cataract

Timing:

- Onset 1–14 days post-surgery.
- Delay suggests an immune-mediated rather than direct toxic reaction.

- Deposition of vancomycin-antibody immune complexes in retinal vessels.
- Results in small-vessel vasculitis primarily affecting retinal venules.
- Associated with severe retinal ischemia and hemorrhage.
- Choroidal involvement as well



HORV Clinical Findings

- Painless vision loss (central or peripheral).
 Onset: 1–14 days after cataractsurgery.

- Mild anterior chamber inflammation (1+ to 3+ œlls).
- Diffuse retinal hemorrhages and vascular occlusion.
- Venous predilection for occlusive vasculitis.
- Widefield FA: Severe peripheral non-perfusion and verous staining.

Complications:

- Neovascular glaucoma in ~64% of eyes.



HORV Management Aggressive Cori co steroid Therapy • Systemic and topic al steroids. Ani-VEG Therapy • Intravitreal bevecizumab for retinal ischemia and neovas cularization. Pannethal Pho becagulation (RRP) • Preventin of neovascular glaucoma due to severe ischemia. Visectomy • In case of vitrecus hemorrhage or severe infammation. Avoid Re-haller og with Van comycin • If HORV is suspected, avoid intraocular vancomycin in future procedures.

Brolucizumab-Associated Vasculitis
Del ayed-onset re fi nal vasculitis following i ntravitreal bro lucizumab injection. Mechanisms:
Im mu ne Respon se:
Type I II Hypersensitivity: Immune complexes form and
deposit in retinal vessels.
Activation of complement cascade leads to inflammation
and vasculitis.
Antidrug Antibod ies (ADAs):
 53%–67% of patients devel op antibodies to brolucizumab.
Associated with higher risk of inflammation and vasculitis.
Clinical Sign ificance:
Involves occlusive retinal vasculitis.
Associated with potential for severe vision loss.
Usually not a first injection phenomenon
Reference : • It is a delayed hypersensitivity response
flonés, J, et al. Ophthalmob gy, 2021. DDI: 10.1016 j.op htha. 2020.1 2.015 Witkin ,A. J., et al. Ophthalmob gy, 2020. DDI: 10.1016 j.op htha. 2020.0 3.023

Brolucizumab-Associated Vasculitis Clinical Findings Delayed presentation Average onset 25 days (rarge 3-63 days) post-injection. Symptoms: Bitury vision (62%) Place (46%) Pan (91%) Pan (91%) Radness (19%) Imaging: Filtorescoin Angiography (FA): Filling defects, teakage, staining. Cd/or Fundus Photography: A terial sheathing, boxcarring, retinal whitening. Predominantly affects arteries (91%) vs. veins (78%).

Bro	lucizumab-Associated Vasculitis Management
Dis	s continue Braluc izumab
	Im m ediately stop further brolucizuma bin jections.
An	nti-Inflammatory Treatment
	In it at e high-dose systemic conticos teroid s (e.g., oral prednison e 60 mg/day).
	Consider intravitreal conticoste roids for severe in traocular in flammation.
Ad	ldress Occlusive Vasculitis
	Antiplatelet The rapy: To reduce the risk of thrombosis (consultation with a vascular specialist if needed).
	Vaso dila tors: May be considere dito improve retin al perfusion.
Ad	ljunctive Thenapies:
	Im m un om od ula tory Agents forrefractory cases (e.g., me tho trexate, my copheno late mole til).
Cle	os e Monitoring
	Fre quient follow-up with widefield fluore sce in angiography (FA) to assess for progression or resolution of vasculitis.
•	M on itor for c om plica tions: re tinal ischem ia , ne ov ascular iza tion , or m a cuta re de ma .

Pegcetacoplan Associated Vasculitis

- Drug-induced, immune-mediated, retinal vasculopathy and choroiditis
- Likely a mixed-type, delayed hypersensitivity reaction involving:
 - T-cell s, macrophages, and eosinophils

Clinical Features:

- Almost always a first injection phenomenon
- Delayed Onset -9-12 days post-injection
- - Vision loss
 - Retinal hemorrhages Vesselsheathing



Pegcetacoplan Clinical Data

Histopathologic Findings:

- Vascular Thrombosis and Retinal Necrosis
- · Dense Inflammatory Infiltrate:
 - Uve a, optic nerve, and episcle ra

- Pre do minantly T-cells, macrophages, and easin ophils

Complications:

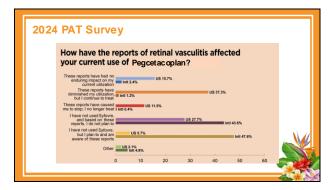
- · Severe vision loss despite cortico steroid treatment
- Enucleation may be required for pain control

- High-dose corticosteroids (systemic and intravitreal)
- Monitoring for ischemia and neovascular complications



	DIRVAC and COVID-19 Vaccination
	Potential Mechanism: • PEGylation (Polyethylene Glycol) in pegcetacoplan and COVID- 19 vaccines
l	- May induce anti-PEG antibodies - Possible cross-reactivity leading to delayed hypersensitivity

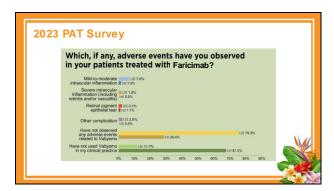
Imm ediat e C	essation of Peoceta coola rx
 Stop Peg 	goeta copia n injections at the first signs of intraocular inflammation or vascultis.
Corticost ero	id Therapy:
 Initiate to 	pical or systemic conticosteroids based on severity:
• м	ild cases: Topical steroids (e.g., pre dniso b ne acetate 1%).
- M	o dera te to sever e cases: Syste mic ste roids (e.g., oral pre dniso ne, 0.5-1 mg/ kg /day).
Vas culitis -S	pecifi c Co neid erat ions:
 Assess for 	or potential chor oidal and ret ha liva scular locclusion su sing fluorescein angiography (FA) or loptical coherence tomography angiography (OCTA).
lmm un omo c	Aulist or s:
 Consider th 	ne use of immuno modulatory th erapy (e.g., methot rexate, mycoph enclate mofe ti) in refractory or re-au ment case s
Avoid Ant i-V	EGF During Active Vasculit is:
 Once inflar 	mma to n resolves, cautiously reintroduce ther apy under strict observation.
Long-Term N	No nito rin g:
 Regular fo 	low-up for recurrent inflammat ion, retinal struidu ral integrity, and visual function.
 Document 	changes using CCT, OCTA, and FAirraging to guide further treatment.



Faricimab-Associated Vasculitis Overview: • Faricimab: A bisped if cantibo dy targeting VEGF-A and Angio poletin-2. • Approved for ne ova scular AMD and diabetic macular edema. Vasculits Incidence: • Rare adverse event, rate a pproximately 0.06 per 10 ,000 injections. • Cases reported in clinical practice post-app or val. Mechanism: • Hypothesized de layed hypersensitivity reaction with immune complex deposition.

Faricim ab-Associated Vasculitis – Clinical Findings Presenting Symptoms: Sudden visual loss, floaters, or scotomas. Often ocurs 3-5 weeks post-injection. Ophthalmic Examina for: Retinal vascular occlusion (arterial and/or venous). Hemorrhages and ischemic signs (e.g., paracentral acute middle maculopathy). Signi cant leakage on fluorescein angi ography. Differential Features: Resembles Brolu d'zuma b-associated vasculitis but potentially less frequent.

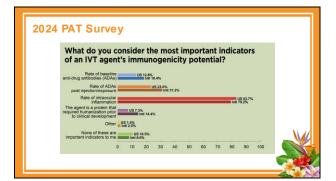
Faricim ab-Associated Vasculitis – Management Immediate Actions: • Discortinue Paric imalb upon suspid on. • Rule out infectious causes with imaging and sterile cultures. Treatment Protocot • Systemic Cort foosteroids: • Pretrivisione (I mpkg/day) with gradual taper. • Intravitreal Cort foosteroids: • Dexamethasone implant in severe cases. • Adjunctive Measures: • Manage second any complications like ischemia and neovascularization with PRP or cautious anti-VEGF use post-resolution. Prognosis: • Vair ablie outcomes: Visual stabilization possible but recovery often limited.

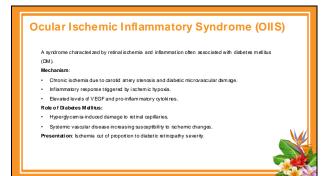


Overview: • Aflibercept 8 mg is a higher-dose anti-VEGF agent,	c
app to ve d for neovascular AMD and diabetic macular	
ede ma. It offers extende d du rability and reduced in jection	
fre quency compared to 2 mg Aflibercept.	
Emerging Concern:	
Retinal vasculitis associated with mild intraocular	V M STATE OF THE S
inflammation (IOI) has been reported post-approval. Potentia I Mechanism:	
Hypothesized immune response to the higher protein	
concentration in 8 mg Aflibercept.	A CONTRACTOR OF THE PARTY OF TH
Type 3 hypersensitivity reaction	V V V V
Induction of in fla mmatory cytokine cascades similar to	d · · ·
other anti-VEGF agents.	
Significance:	
 Va scul it is cases high light the need for cautious clinical 	
monitorin g de spite min imal incide nce in pivota I trials (e.g.,	
QUASAR, PULSAR).	

Aflibercept 8mg Associated Vasculitis: Clinical
Findings
Incide noe: Vasculitis associated with 8mg allibercept remains very rare much less than .001 percent.
Time to Onset: Observed predominantly within 1–3 months of treatment in it ation. First Injection Phenomenon: Frequently noted after the initial dose but possible in subsequent doses. Can be seen in patients with inflammation after second generation medications (brol ucizumab and farcimab)
Signs and Symptoms: Retinal Venous narrowing and mild intraretinal hemorrhage. Leal age seen on fluorescein anglo graphy. Mild vitrit s evident on OCT imaging.
Sever ity: Most cases resolve without significant vision loss when man aged appropriately.
Refer ances: Instantonio, M., et al. "Milbersopt 5 mg. Salety and Emerginghosights from Red-World Cases." Journal of Reside and Vitreaus Diseases, 2023. USBAR Blook Diseases 15 Per Subgelmant, 222.

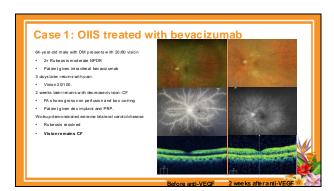
	Aflibercept 8mg Associated Vasculitis: Management
	Immediate Steps: Suspend Aflibercept 8 mg injections.
	Medications: • Poste rior subtenon triamcinolo ne aceto nide. • Adjun dive topical betamethascone or prednisolone eye drops. Avoid additional anf-VEGF injections until inflammation resolves.
	Precautions: Monitor closely during the first few injections for signs of inflammation. Consider switching to a different anti-VEGF agent in patients with severe in flammatory history.
l	Prognosis: Favorable outcomes with early recognition and steroid treatment.
l	References: Matternool M., et al. "Albertaget 8 m; Safety and Emerginghissights from Red-World Case." Journal of Retire and Virenza Diseases, 202. OUSAR Ributyly bate. Eyes HD P saceplesses, 202.

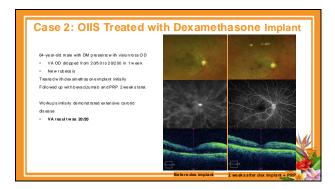




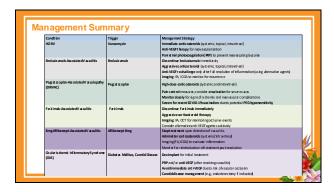
Ocular Ischemic Inflammatory Syndrome (OIIS) Anterior Segment Findings • Rube osis • Hypherna Posterior Segment Findings: • Mild di abetic retino pathy de spite i schemic complications. • Retinal hemorrh ages and vascular leakage. Diagnostic Workup: • Carotid workup: • Carotid workup • Fluorescein Anglog raphy (FA): • Stynificant via cubir le king e rese miling via socilities. • Delayed within park sonard capillary non-pert usion.

Mechanisms VEGF suppression leads to: • Reduced compensatory neovascularization. • Exacerbation of ischemia. • Potential vascul ar cod usion due to vasconstriction and endothelial damage. Consequences: • Wosering ischemia and retinal vascular cod usion. • Potential vascul wision loss or exacerbation of inflammatory changes. High-Risk Factors • History of rubeod's idids or hyphema. • Significant ischemia on FA.





Management Strategy for OIIS ControlInflammation First: Decame/hasone Implant to reduce inflammation and vascular leakage Address ischemia Pannetinal Phobocogulation (PRP) to reduce VEGF production Ansi-VEGF Therapy (If Needed): Administer only after vasculitis and inflammation resolve. Rationals: Prevent worsening ischemia and vascular occlusion by stabilizing inflammation before VEGF suppression.



		 _	

- HORY: Delayed-type (Type III) him run e com plex-mediated reaction tidg gered by van com yoin.

 Broluciz umab-Associated Vasculitis: Delayed-type (Type III) him run e com plex-mediated reaction vasculitis; requires discontinuation and aggressive conficoste roid treatment.
- Pegc et acopta n-As sociated Vas culit is: Dela yed hype isensitivity reaction; characterized by cell-mediated immune response, managed with high-dose conticosteroids and care full monitoring.
- Faric im ab As so ciated Vas culitis: In flam matery and immune-mediated vasculitis. May occur at various stages of
- trea tm ent . Conticost eroid s are the primary management strategy.. • 8mg Af libe roept-As sociated Vasculitis: First-injection phenomenon observed; corticos teroids are essential for
- Olls (Ocular is chemic in flamma story Syndrome): Inflamma story va sculit is linked to dia betes and rubieosis; conticosteroids are the primary treatment, while anti-VEGF therapycaries a risk of worsening va scular occlusion

ou too m es.



- Opinion-integrity (220), 1438-1451, 'Unaction among the following a size of mission and a few discretions As a General Vac Lin Mission and Association and Complete C

- Pegestaco plan (Sylo va)-A wo cât ed Vasculinia

 Nalari A., Elect. D., Arey, R.L., Polisto, J., Eagle Jr., R. C., Camasco, J. R., Ciswlord, C., Milman, T., & Dasper, A. M2024). Resinal vasculopably and chronicis silvergeactecypism (specific Chicapophelogic support for a drug hypersessinity readile. Ophidismology Relina. D.CI.

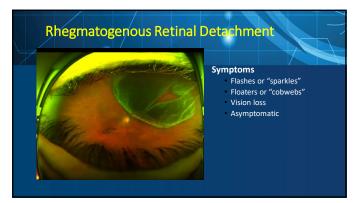


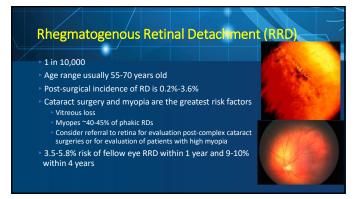




Ocusion Consultant: Alimera, Allergen, Alcon, Genentech, Ocuphire Pharm, Ocular Therapeutics, ANI Pharmaceuticals Investigator: Alimera, Genentech, Inc., Jaeb Center for Health Research, Regeneron, Novartis, Ocuphire Pharm, Parexel, Ocular Therapeutics Speaker: Genentech, Inc., Apellis, Astellas, Regeneron



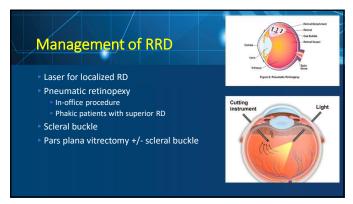


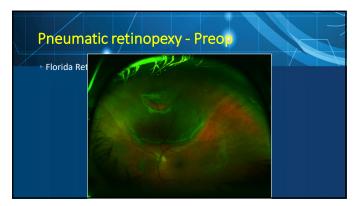


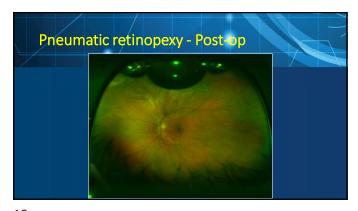


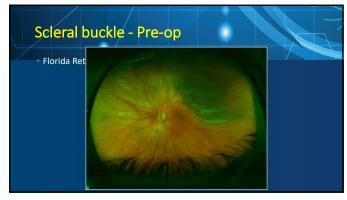








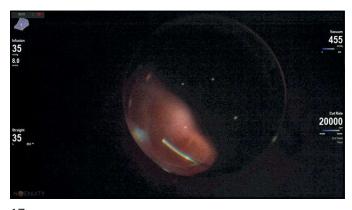




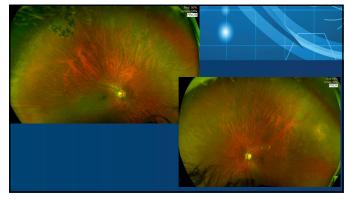




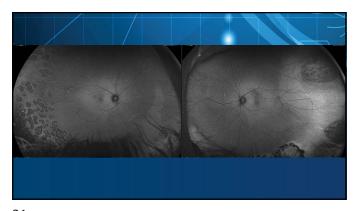


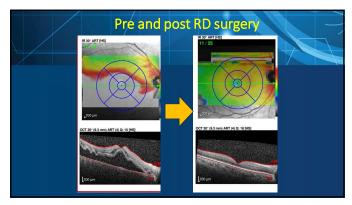


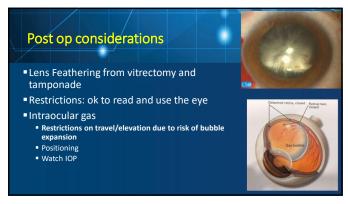




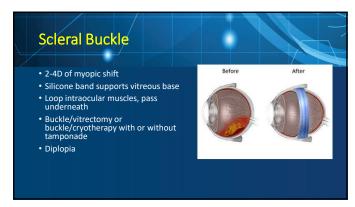








Post op considerations Silicone oil- Refractive changes Aphakic eyes → decreases hyperopia (convex surface to K, acts as plus lens) Phakic eyes → increases hyperopia (concave surface behind lens, acts as minus lens) Pseudophakic eye → myopic shift













Conclusion There are multiple ways to repair retinal detachments The success rate for retinal detachment repair is 90% with a single surgery Considerations for the urgency of surgery is multi-factorial

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