# Vision Quest: Modernizing the Approach to Retinal Diseases With New and Emerging Therapies

### **Rishi P. Singh, MD**

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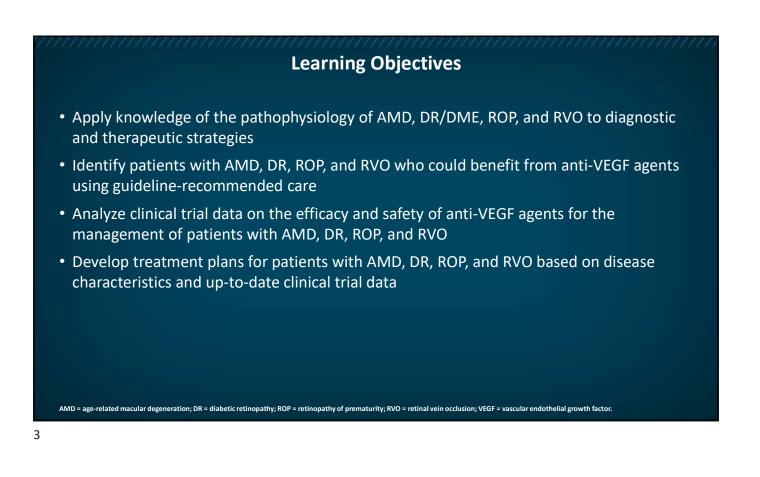
## **Financial Disclosures**

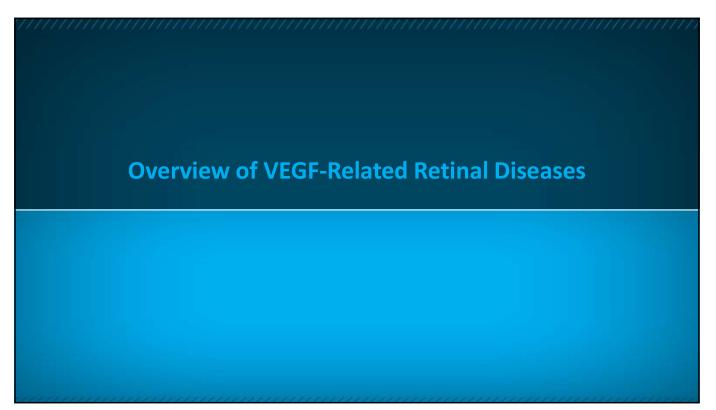
- Dr Rishi Singh discloses the following
  - Personal fees from Apellis Pharmaceuticals, Iveric Bio, EyePoint Pharmaceuticals, REGENXBIO, Genentech, Bausch + Lomb, Zeiss, Alcon, and Regeneron Pharmaceuticals; research grants from Janssen

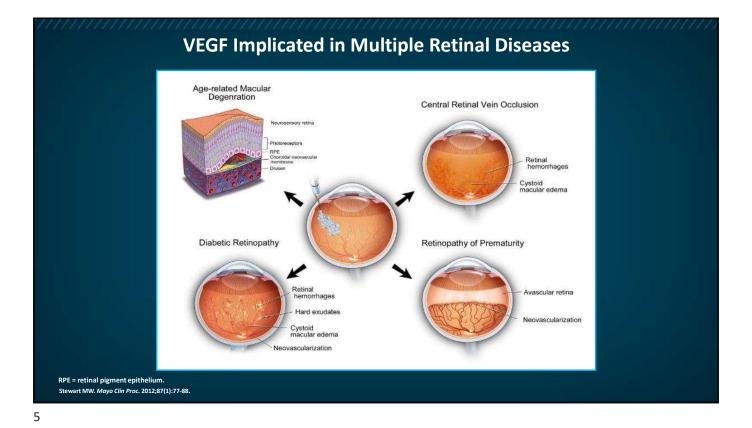
All relevant financial relationships have been mitigated.

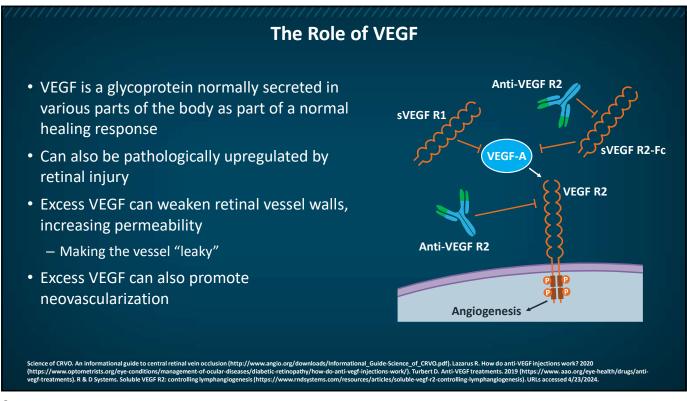
• During the course of this lecture, Dr Singh may mention the use of medications for both US Food and Drug Administration (FDA)-approved and non-FDA-approved indications

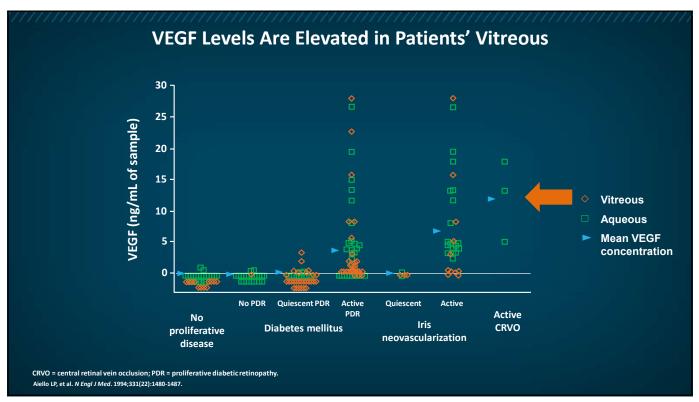
This activity is supported by an independent medical education grant from Regeneron Pharmaceuticals, Inc.

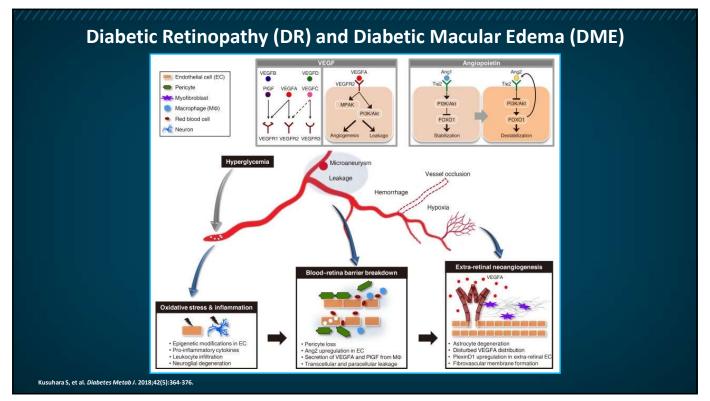


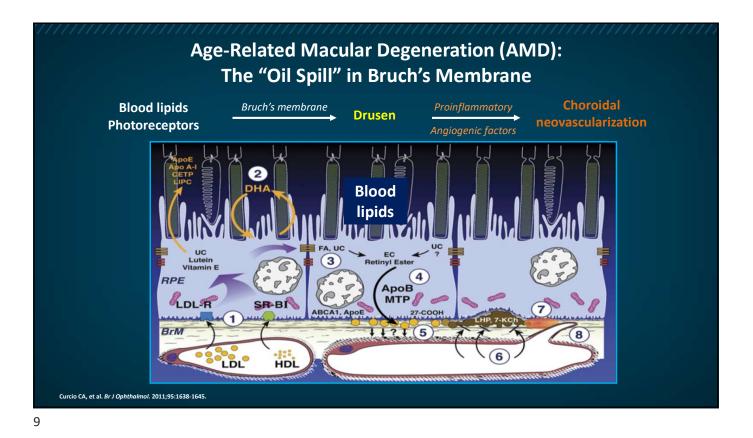


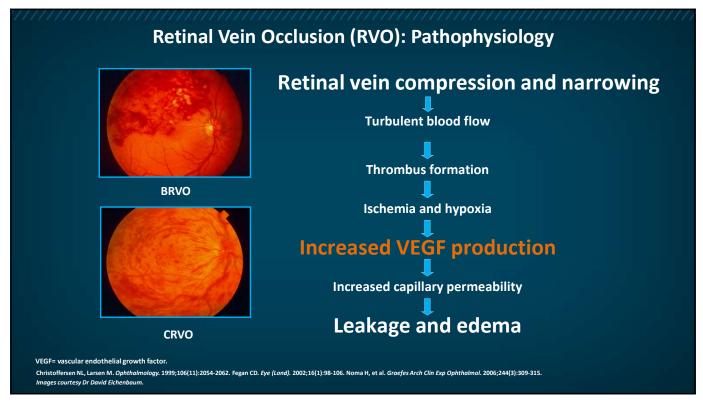


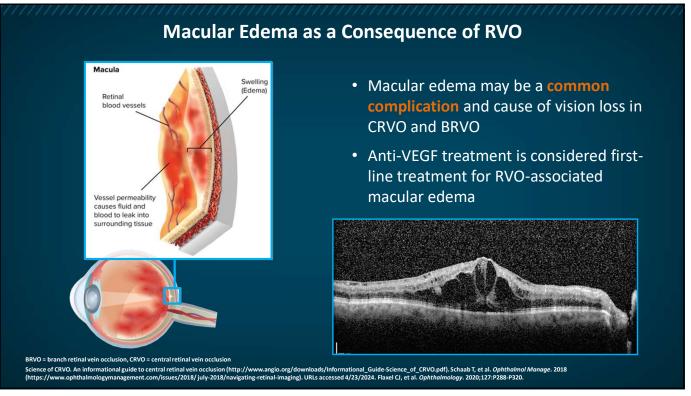


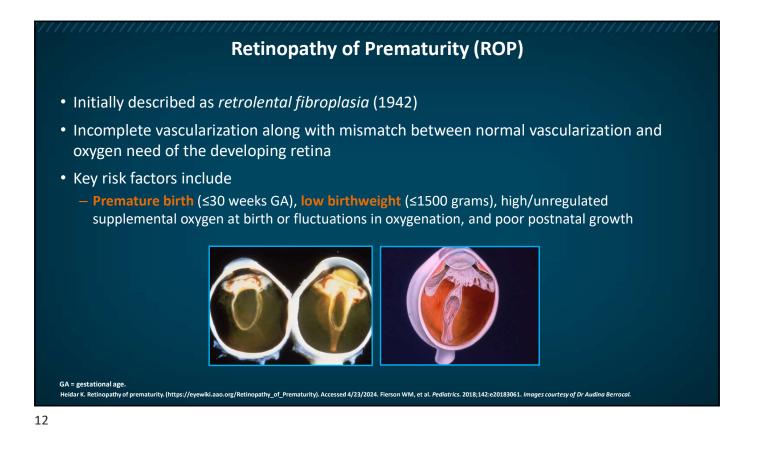


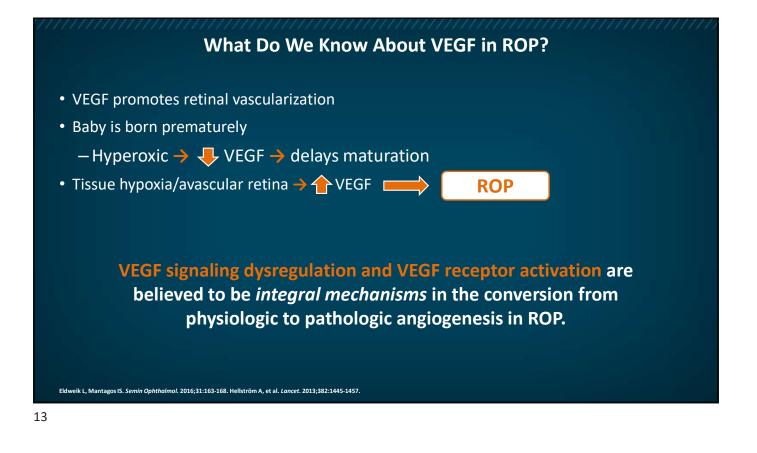


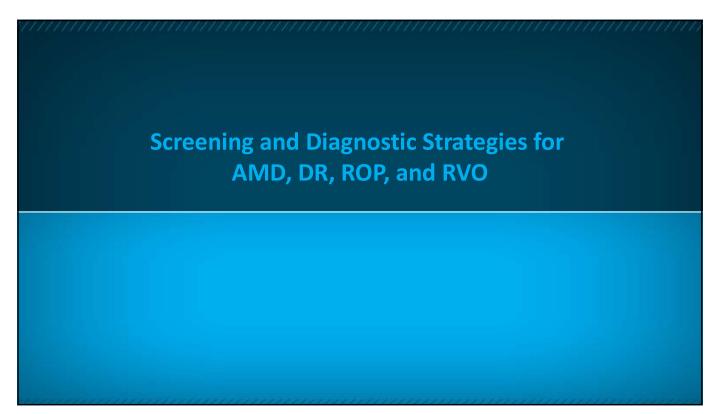


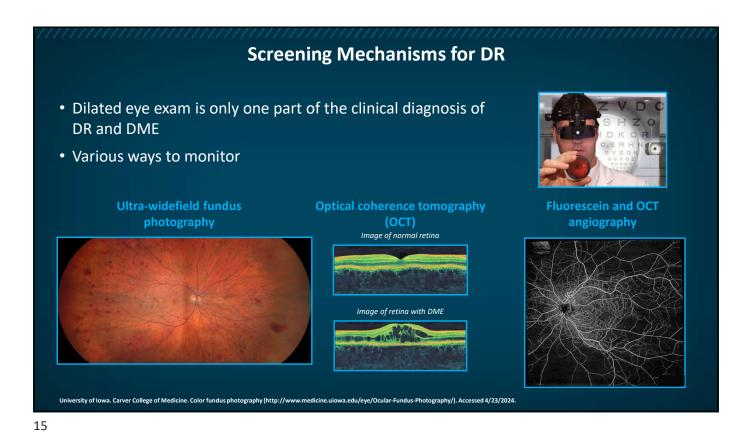








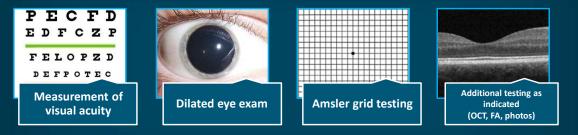




Screening for DR/DME When to screen When to follow up 5 years after diagnosis • At least annually • T1DM More frequently as needed • T2DM At diagnosis • Be careful in pregnancy! International classification of DR\* and DME for high-resource settings **Classification** Reexamination or next screening schedule DR No apparent DR, mild nonproliferative DR, and no DME Reexamination in 1 to 2 years Mild nonproliferative DR 6 to 12 months Moderate nonproliferative DR 3 to 6 months Severe nonproliferative DR <3 months **Proliferative DR** <1 month DME Non-center-involving DME 3 months Center-involving DME (CI-DME) 1 month T1DM = type 1 diabetes mellitus; T2DM = type 2 diabetes mellitus; DME = diabetic macular edema; DR = diabetic retinopathy. \*In cases where diabetes is controlled. Adapted from International Council of Ophthalmology (ICO). ICO guidelines for diabetic eye care, 2017 (http://www.icoph.org/downloads/ICOGuidelinesforDiabeticEyeCare.pdf). Ziemer DC, et al. American Diabetes Association (ADA) 2016 Congress; Poster 617-P. Flaxel CJ, et al. Ophthalmology. 2020;127:P66-P145.

## **Screening Mechanisms for AMD**

- Patients with early AMD may be asymptomatic or unaware of their diagnosis<sup>1</sup>
- Patients aged >60 years and those at risk for AMD should have an annual eye exam<sup>1,2</sup>



- Studies show that many patients with AMD go undetected, and will initially present with vision loss
  - 25% eyes with macular characteristics undiagnosed in 1 study<sup>3</sup>
  - 79% of patients in another study presented with neovascular AMD and VA of 20/50 or worse<sup>4,5</sup>

# Simple OCT-Based Scoring System Modeled After AREDS Simple Scale

Intermediate	Intermediate AMD in both eyes					
Risk factors	Scores (OD) Study eye	Scores (OS) Fellow eye				
Hyporeflective foci within drusenoid lesion	Yes 1 No 0	Yes 1 No 0				
Intraretinal hyperreflective foci	Yes 1 No 0	Yes 1 No 0				
Subretinal drusenoid deposits	Yes 1 No 0	Yes 1 No 0				
Drusen volume ≥0.03 mm³	Yes 1 No 0	Yes 1 No 0				

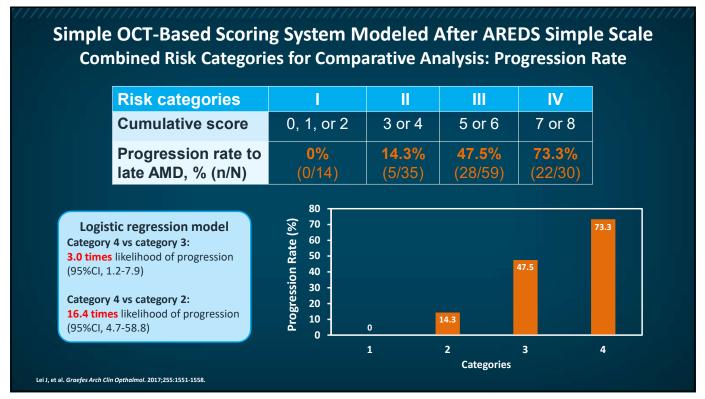
Fellow eye already with advanced AMD				
Risk factors	Scores Intermediate AMD	Scores Fellow eye*		
Hyporeflective foci within drusenoid lesion	Yes 1 No 0	4		
Intraretinal hyperreflective foci	Yes 1 No 0	4		
Subretinal drusenoid deposits	Yes 1 No 0	4		
Drusen volume ≥0.03 mm³	Yes 1 No 0	4		

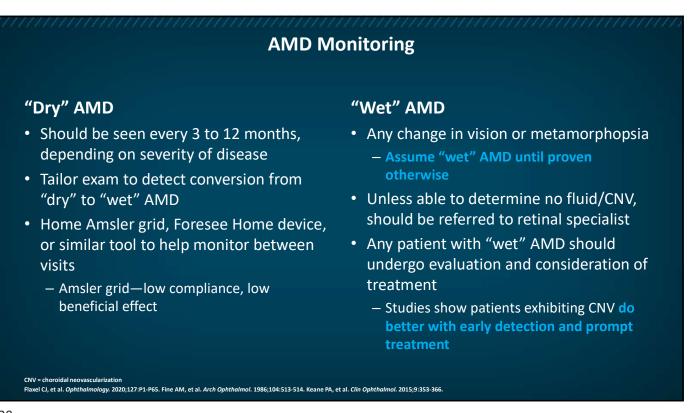
 ${}^{*} {\sf Fellow} \ {\sf eye} \ {\sf with} \ {\sf evident} \ {\sf choroidal} \ {\sf neovascularization} \ {\sf or} \ {\sf atrophy} \ {\sf automatically} \ {\sf receives} \ {\sf 4} \ {\sf points}.$ 

### Maximum score = 8

AREDS = Age-Related Eye Disease Study; OCT = optical coherence tomography; OD = right eye; OS = left eye. Lei J, et al. Graefes Arch Clin Opthalmol. 2017;255:1551-1558. Ferris FL, et al. Arch Ophthalmol. 2005;123:1570-1574.

FA = fluorescein angiography; OCT = optical coherence tomography; VA = visual acuity.
1. American Academy of Ophthalmology (AAO). AMD Preferred Practice Pattern\*, 2019 (www.aao.org/preferred-practice-pattern/age-related-macular-degeneration-ppp). 2. American Optometric Association (AOA). Optometric clinical practice guideline: AMD, 2004 (www.sdeycs.org/docs/CPG-6.pdf). 3. Neely DC, et al. JAMA Ophthalmol. 2017;135:570-575. 4. Cervantes-Castañeda, et al. Eye (Lond). 2008;22:777-781. 5. Olsen TW, et al. Ophthalmology. 2004;111:250-255. URLs accessed 4/23/2024.





# **Recognizing RVO**



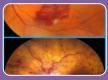
### **Typical patient**

- History of hypertension, high cholesterol, DM, heart disease
- Often high blood pressure on vital signs assessment
- Smokers



### **Typical symptoms**

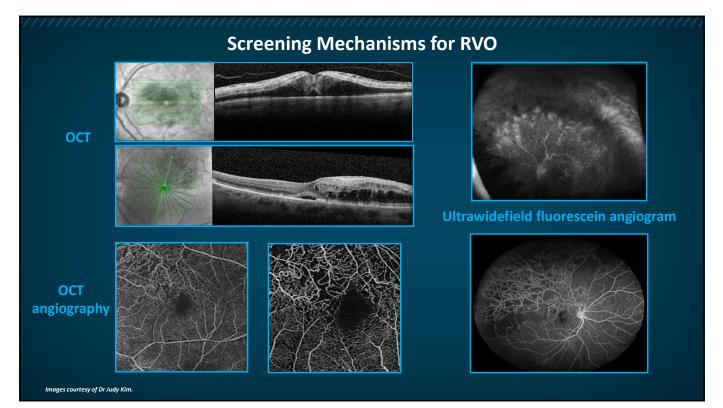
- Sudden painless unilateral distortion or loss of central vision
- Can be asymptomatic in mild cases



### **Potential findings**

- Superficial retinal hemorrhage
- Cotton wool spots
- Retinal edema
- Dilated and/or tortuous venules
- Optic disc edema
- Lipid deposition

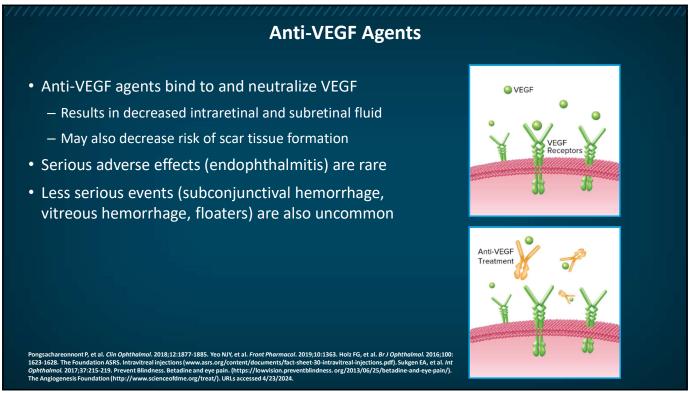
Song P, et al. J Glob Health. 2019;9(1):010427. Flaxel CJ, et al. Ophthalmology. 2020;127:P288-P320. In Sight Full Life (https://www.insightfulliife.com/what-does-myopic-macular-degeneration-look-like/). RVO fundus images courtesy of Dr Judy Kim.



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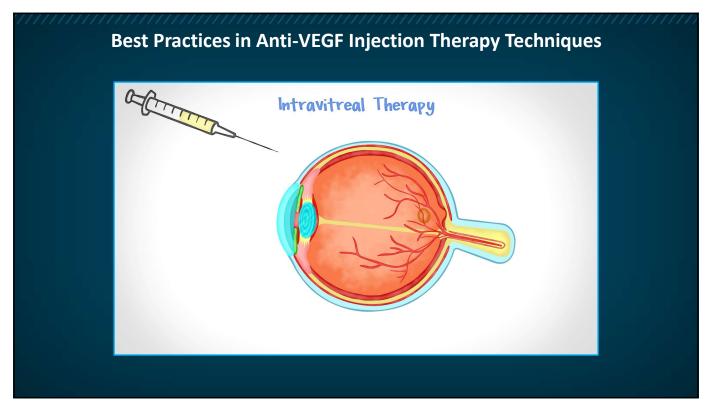
	Screening for	ROP	
Acute ROP either progre or spontaneously regres		imely treatment (within 48–72 hours)	
Screenings should be ca	refully timed to identify ey	ves in need of treatment	
Recommended t	iming of first exam based	on GA in the United States	
Postmenstrual age (PMA) Chronologic			
Gestational age at birth	[weeks]	[weeks]	
22 weeks	31	9 - Consider earlier screening per clinical judgment	
22 weeks 23 weeks	<u> </u>	<ul><li>9 - Consider earlier screening per clinical judgment</li><li>8 - Consider earlier screening per clinical judgment</li></ul>	
23 weeks	31		
23 weeks 24 weeks	31 31 31	8 - Consider earlier screening per clinical judgment 7	
23 weeks 24 weeks 25 weeks	31 31 31 31	8 - Consider earlier screening per clinical judgment 7 6	
23 weeks 24 weeks 25 weeks 26 weeks	31 31 31 31 31 31	8 - Consider earlier screening per clinical judgment 7 6 5	
23 weeks 24 weeks 25 weeks 26 weeks 27 weeks 28 weeks	31 31 31 31 31 31 31	8 - Consider earlier screening per clinical judgment 7 6 5 4	
23 weeks 24 weeks 25 weeks 26 weeks 27 weeks	31 31 31 31 31 31 31 32	8 - Consider earlier screening per clinical judgment 7 6 5 4 4 4	

# Use of Anti-VEGF Agents in the Treatment of nAMD, DR, RVO, and ROP





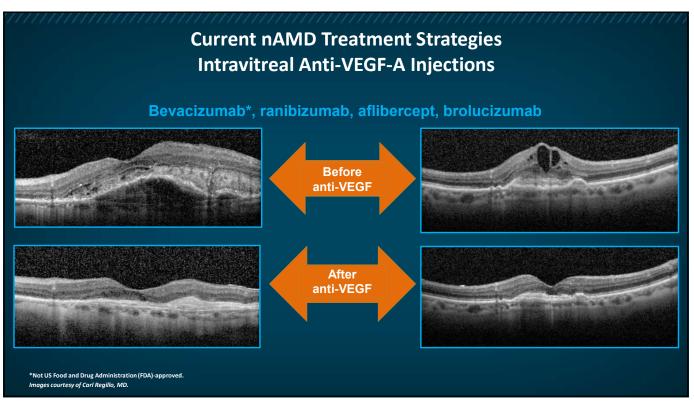




		Anti-V	EGF Appr	baches		
		nAMD	DR	DME	ROP	RVO
First	Aflibercept (2 mg)	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
generation	Aflibercept-yszy†	$\checkmark$	$\checkmark$	√		$\checkmark$
	Aflibercept-jbvf <sup>†</sup>	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$
	Bevacizumab	*		*		*
	Brolucizumab	$\checkmark$		$\checkmark$		
	Ranibizumab	$\checkmark$		$\checkmark$		$\checkmark$
	Ranibizumab-nuna	$\checkmark$			$\checkmark$	$\checkmark$
	Ranibizumab-eqrn	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$
Next	Aflibercept (8 mg)	$\checkmark$	$\checkmark$	$\checkmark$		
generation	Faricimab	$\checkmark$		$\checkmark$		$\checkmark$
	Ranibizumab port delivery system (PDS)	√**				
nAMD = neovascular aş Source: Product informati	ge-related macular degeneration. on.	<ul><li>✓ = FDA approve</li><li>* = off-label use</li></ul>	ed	similar indications ad ed to at least 2 intravi		nti-VEGF therapy

Anti-VEGF	Treatmen	ts for AMD	
Anti-VEGF agents can also slow or stop vessel leakiness and decrease thickening	Clinical tri	als for anti-VEGF	therapy in AM
of retinal tissues may improve vision	Anti-VEGF therapy	Mechanism of action	Trial
Generally well tolerated; risk of endophthalmitis from injection is rare	Aflibercept	Anti-VEGF	PULSAR, VIEW 1, VIEW 2
	Bevacizumab*	Anti-VEGF	CATT
	Brolucizumab	Anti-VEGF	HAWK, HARRIER, SWIFT
	Faricimab	Anti-VEGF and anti-Ang-2	TENAYA, LUCERNE
Anti-VEGF agents are generally	Ranibizumab	Anti-VEGF	ANCHOR, HARBOR, MARINA, SUMMIT
considered first-line therapy in neovascular macular AMD.	RGX-314	Suprachoroidal anti-VEGF gene therapy	AAVIATE
	OPT-302	Inhibits VEGF C/D	ShORe, COAST

Flow - Voscane Endothenergy with tector. Flaxel CJ, et al. Ophthalmology. 2020;127(1):P1-P65. Turbert D. Anti-VEGF treatments. AAO EyeSmart (https://www.aao.org/eye-health/drugs/anti-vegf-treatments). Moshfeghi AA. Safety of intravitreal anti-VEGF agents (https://www.reviewofophthalmology.com/article/safety-of-intravitreal-antivegf-agents). Opthea. Wet AMD phase 3 pivotal trials (https://opthea.com/clinical-trials/#). Campochiaro PA. AAO 2022. Hinkle J, et al. *Retina Today*, 2020 (https:// retinatoday.com/articles/2020-nov-dec/the-future-looks-bright-the-therapeutics-pipeline-for-diabetic-retinopathy). URLs accessed 10/26/23.



Anti-VEGF Agents for DR/DME					
Anti-VEGF agents	Ranibizumab	Aflibercept	Brolucizumab	Faricimab	Bevacizumab
FDA approval: DR	2006	2 mg: 2011 8 mg: 2023	Not approved	Not approved	Not approved
Pivotal studies	Protocol S	2 mg: VISTA/VIVID PANORAMA 8 mg: PHOTON			
FDA approval: DME	2012	2 mg: 2014 8 mg: 2023	2022	2022	Not approved
Pivotal studies	Protocol T RISE/RIDE RESTORE Protocol I READ 2	2 mg: Protocol T Protocol V VISTA/VIVID 8 mg: PHOTON	KESTREL KITE	YOSEMITE RHINE	Protocol T

Sun IK, et al. Ophthalmology. 2019;122(1):87-95. Jacoba CMP, et al. Diabetic macular edema (https://grewiki.org/Diabetic. Macular\_Edema). Baker CW, et al. JAMA. 2019;321:1880-1894. Korobelnick JF, et al. Ophthalmology. 2014;121:2247-2254. Bressler SB, et al. JAMA Ophthalmol. 2017;135:558-568. Mitchell P, et al. Ophthalmology. 2011;111:615-625. Bressler SB, et al. Retina. 2015;35:5516-5228. Do DV, et al. JAMA Ophthalmol. 2013;131:139-145. Brown DM, et al. Am / Ophthalmol. 2022;238:157-172. Wykoff CC, et al. Lancet. 2022;399(10326):741-755. Wells JA, et al. N Engl I Med. 2015;372:1193-1203. Ranibizumab (Lucentis "prescribing information [P] 2023 (https://www.gene.com/download/seyleahd\_f.pi.pdf). Aflibercept HD (Eylea HD") 2023 (https://www.regeneron.com/ downloads/eyleahd\_f.pi.pdf). Broulcizumab (Beovu") P1 2023 (https://www.regeneron.com/downloads/eyleahd\_f.pi.pdf). Aflibercept HD (Eylea HD") 2023 (https://www.regeneron.com/ prescribing.pdf). URLs accessed 4/23/2024.

	Diabetic Reti	nopathy Pre	ferred Pra	actice Pattern <sup>®</sup>		
	Severity of retinopathy	Presence of macular edema	Follow-up (months)	Panretinal photocoagulation (scatter) laser	Focal and/or grid laser*	Intravitreal anti- VEGF therapy
	Normal or minimal NPDR	No	12	No	No	No
Current Academy Control Control Contr	Mild NPDR	No NCI-DME CI-DME	12 3–6 1	No No No	No Sometimes Rarely	No No Usually
	Moderate NPDR	No NCI-DME CI-DME	6–12 3–6 1	No No No	No Sometimes Rarely	No Rarely Usually
	Severe NPDR	No NCI-DME CI-DME	3–4 2–4 1	Sometimes Sometimes Sometimes	No Sometimes Rarely	Sometimes Sometimes Usually
	Non-high-risk PDR	No NCI-DME CI-DME	3–4 2–4 1	Sometimes Sometimes Sometimes	No Sometimes Sometimes	Sometimes Sometimes Usually
	High-risk PDR	No NCI-DME CI-DME	2–4 2–4 1	Recommended Recommended Recommended	No Sometimes Sometimes	Sometimes Sometimes Usually

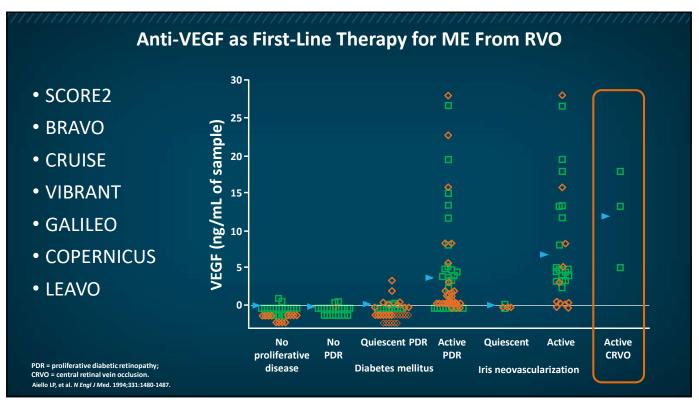
Flaxel CJ, et al. Diabetic Retinopathy Preferred Practice Pattern<sup>®</sup>. 2019:P65-P145.

Anti-VEGF agents	Ranibizumab	Aflibercept	Brolucizumab	Faricimab	Bevacizumab
FDA approval for indication	2010	2012	Not approved	2023	Not approved
Pivotal studies	CRUISE/ BRAVO	COPERNICUS/ GALILEO		BALATON COMINO	

Lashay A, et al. J Ophthalmic Vis Res. 2019;14(3):336-366. Brolucizumab (Beouvu) PI 2023 (https://www.novartis.com/us-en/sites/novartis\_us/files/beovu.pdf). Faricimab (Vabysmo) PI 2023 (https://www.gene.com/download/ pdf/vabysmo\_prescribing.pdf). URLs accessed 4/23/2024. Flaxel CI, et al. Ophthalmology. 2020;127:P288-P320.

- Additional approaches
  - 1 FDA-approved corticosteroid therapy
  - 2 off-label corticosteroid therapies
  - Laser for macular edema (ME) in BRVO, neovascularization in RVO

# Need to detect macular edema early

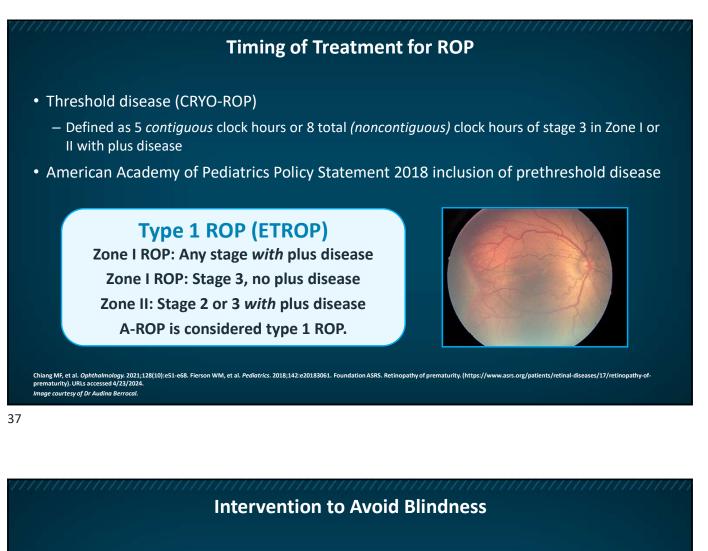


		Anti-VEGF Ag	ents for ROP		
Anti-VEGF agents	Ranibizumab	Aflibercept	Brolucizumab	Faricimab	Bevacizumab
FDA approval for indication	Not approved	2023	Not approved	Not approved	Not approved
Pivotal studies	RAINBOW	BUTTERFLEYE FIREFLEYE			BEAT-ROP
<ul> <li>Additional application</li> </ul>	oproaches				
	py (rarely used) tocoagulation		Anti-VEGF is lower rates o	associated w f high myopic	

Aflibercept (Eylea\*) PI 2023 (https://www.regeneron.com/downloads/eyleahd\_fpi.pdf). Foundation ASRS. Retinopathy of prematurity (https://www.asrs.org/patients/retinal-diseases/17/retinopathy-of-prematurity). National Institutes of Health/National Eye Institute (NIH/NEI). Retinopathy of prematurity (https://www.nei.nih.gov/learn-about-eye-health/eye-conditions-and-diseases/retinopathy-prematurity). Stahl A, et al. Lancet. 2019;394(10208):1551-1559. Mintz-Hittner HA, et al. N Engl J Med. 2011;364:603-615. Riazi-esfahani H, et al. Int J Retino Vitreous. 2021;7:60. URLs accessed 4/23/2024.

- Intravitreal anti-VEGF
- Vitrectomy
- Scleral buckle

peripheral visual field loss.



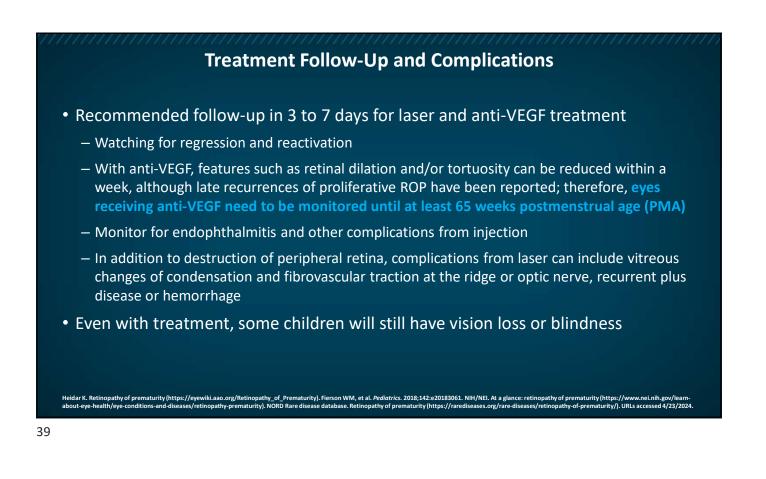
- 90% of babies will reach threshold between 32 and 42 weeks
- Median age at which threshold is reached is 37 weeks

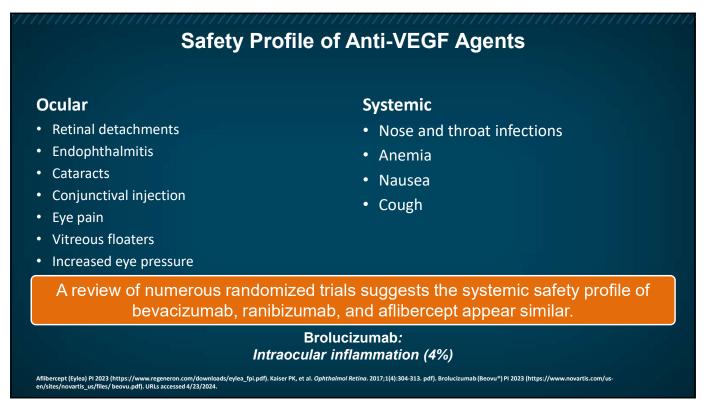
- Shifted to 34 weeks in Zone I disease (24 weeks or less/500 grams or less)

• Retinal detachment occurs at a median age of approximately 39 weeks



Diagram courtesy of Dr Audina Berrocal.





Intraocular I	nflamma	ation Safe	ety Signa	l With B	rolucizuı	mab	
		HAWK		HAR	RIER		
Data from phase 3 clinical trials	Brolucizumab 3 mg (n = 358)	Brolucizumab 6 mg (n = 360)	Aflibercept 2 mg (n = 360)	Brolucizumab 6 mg (n = 370)	Aflibercept 2 mg (n = 369)	After ro	•
Patients with ≥1 ocular AE, n (%)	218 (60.9)	220 (61.1)	201 (55.8)	174 (47.0)	176 (47.7)	by the FDA, the rates in the US label are:	
Patients with ≥1 ocular serious AE, n (%)	7 (2.0)	12 (3.3)	5 (1.4)	13 (3.5)	6 (1.6)		
Ocular AEs of potential relevance to intravitreal anti-VEGF in HAWK and HARRIER						Bro 6 mg	Afl 2 mg
Intraocular inflammation, n (%); Pooled HAWK and HARRIER by agent/dose	17 (4.7)	32 (8.9)	7 (1.9)	POOLE	D DATA	4%	1%
Retinal artery occlusion, n (%)	3 (0.8)	0 (0.0)	0 (0.0)	0 (0.0)	1 (0.3)	1%	<1%

Novartis postmarketing update: A safety signal of rare AEs of retinal vasculitis and/or RVO, which may result in severe vision loss, has been identified. Typically, these events occurred in the presence of intraocular inflammation.

0 (0.0)

7.5

rtis.us/sites/www.novartis.us/files/beovu.pdf). Accessed 4/23/2024

3 (0.8)

8.1

1 (0.3)

7.0

1 (0.3)

7.6

1%

<1%

3 (0.8)

8.6

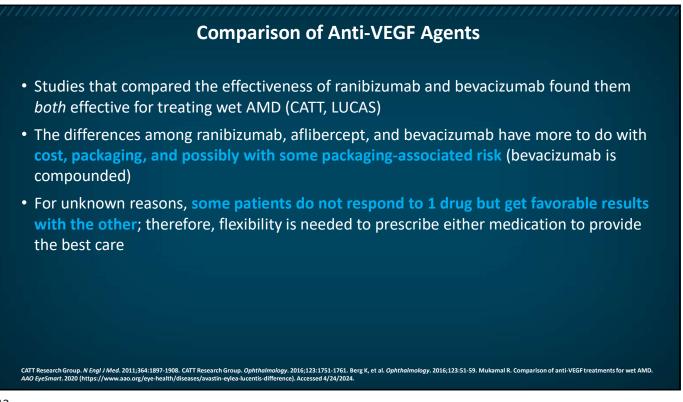
AE = adverse event; Afl = aflibercept; Bro = brolucizumab. Dugel PU, et al. Ophthalmology. 2021;128:89-99. Brolucizumab (Beovu®) PI 2023 (w

Endophthalmitis, n (%)

baseline at Week 96, %

Patients with ≥15-letter loss from

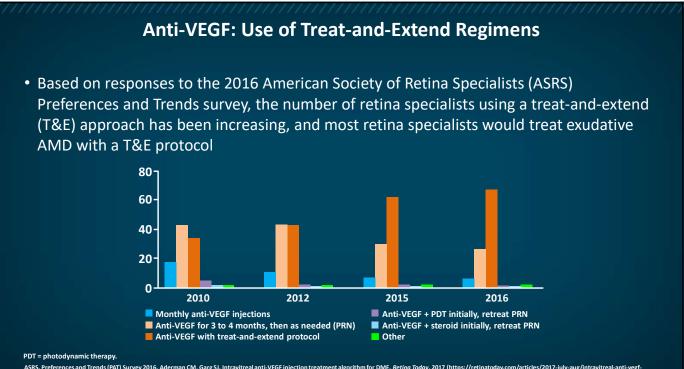
Visual outcomes





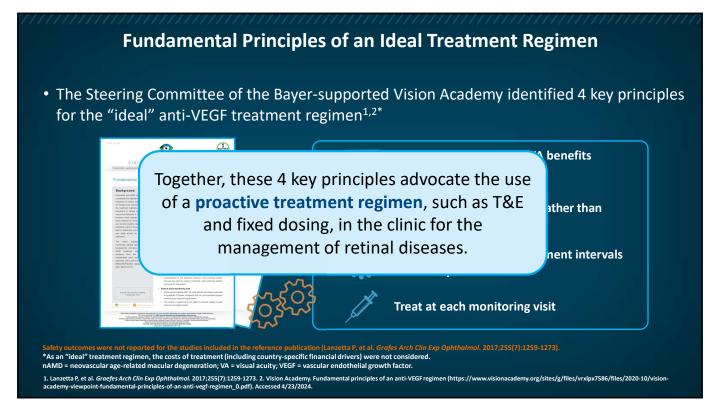






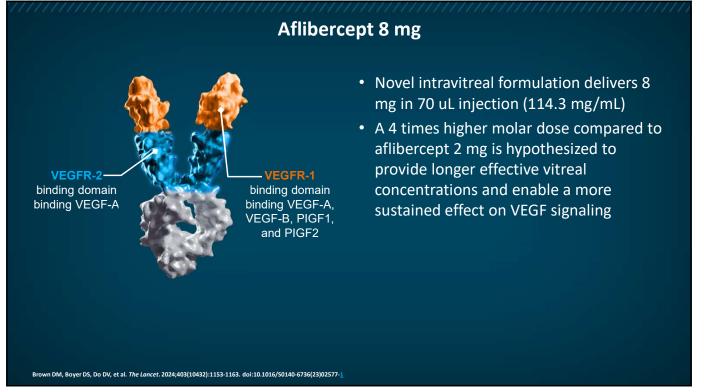
ASRS. Preferences and Trends (PAT) Survey 2016. Aderman CM, Garg SJ. Intravitreal anti-VEGF injection treatment algorithm for DME. Retina Today. 2017 (https://retinatoday.com/articles/2017-july-aug/intravitreal-anti-vegfinjection-treatment-algorithms-for-dme). Accessed 4/23/2024.

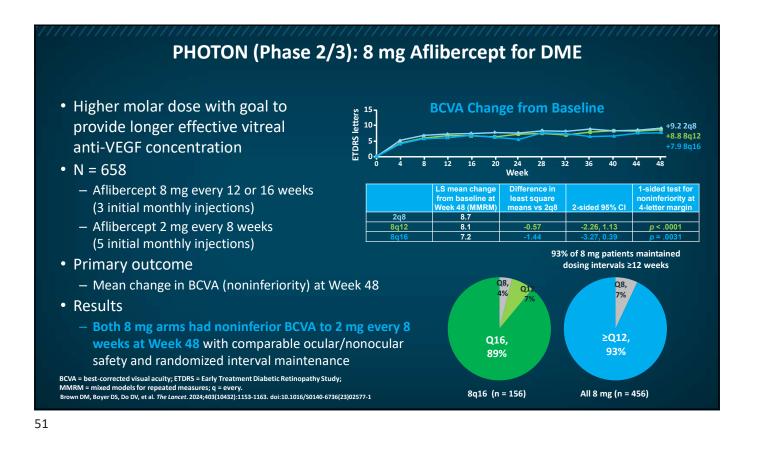
1111111111111	
	Optimizing Dosing Regimens
– Flexible d – All eyes d • Eyes with P	ng, PRN, and treat-and-extend losing strategies optimize benefit-risk ratio and cost-effectiveness of anti-VEGF liffer in need for repeat injections, highlighting tailored approaches PDR undergoing treatment with panretinal photocoagulation (PRP) have <i>better</i> when <b>combined</b> with anti-VEGF injections
<ul><li>Some cases</li><li>Studies und</li></ul>	s of refractory DME will have <i>improved responses</i> to a <b>switch</b> in anti-VEGF agent derway are looking at sustained release (PAGODA, PAVILLION) and higher xtended intervals (PHOTON) for management of diabetic eye disease
dosing at ex Freund KB, et al. <i>Retina</i> . 2015;35	erway are looking at sustained release (PAGODA, PAVILLION) and higher tended intervals (PHOTON) for management of diabetic eye disease 5:1489-1506. Hendrick AM, Ip MS. Reting Today. 2016 (https://retinatoday.com/articles/2016-mar/managing-diabetic-eye-disease-with-intravitreal-anti-vegf-injections). Wallsh JO, Gallemore RP. 5:gov: NCT04429503. NCT04108156. NCT04503551. Patel P, et al. Rev Ophthalmol. 2021 (https://www.reviewofophthalmology.com/article/a-peek-into-the-diabetic-retinopathy-pipeline). URLS
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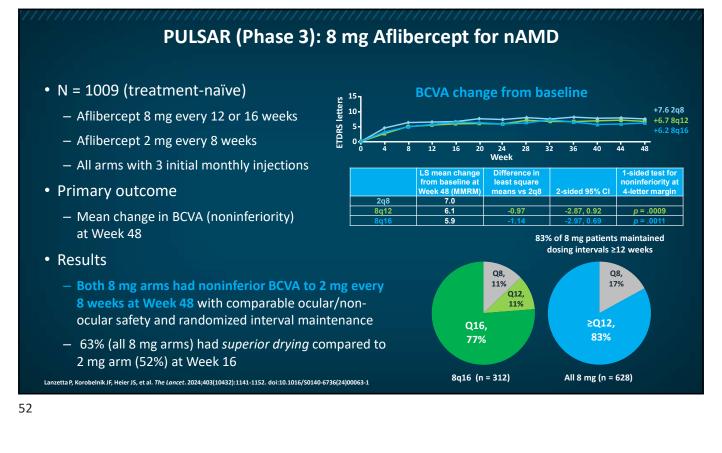


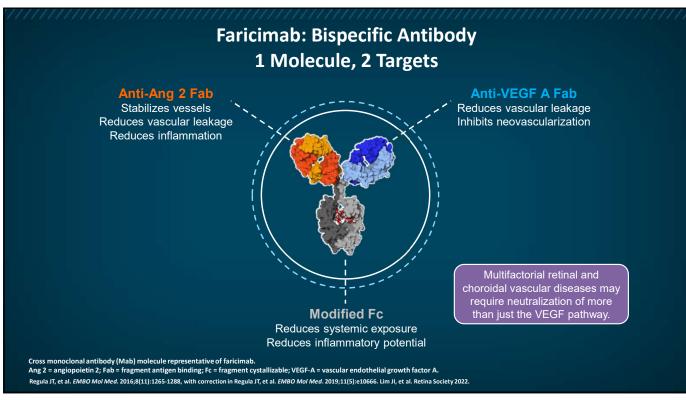
# **Next-Generation Anti-VEGF**





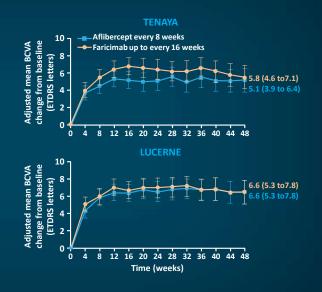






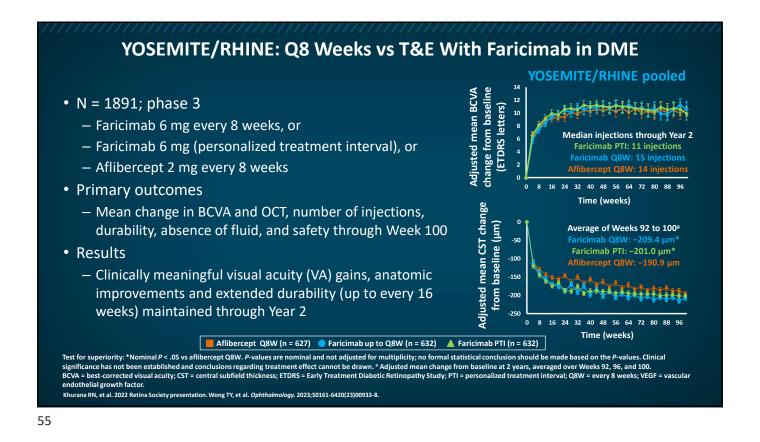
# TENAYA/LUCERNE: Noninferiority Trials With Faricimab\* in nAMD

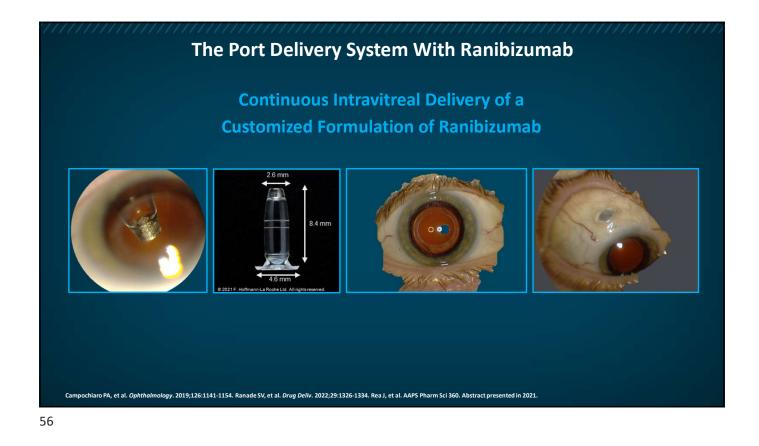
- N = 1329 (treatment-naive patients); phase 3
  - Faricimab 6 mg up to every 16 weeks
     (based on protocol-defined disease activity) or
  - Aflibercept 2 mg every 8 weeks
- Primary outcomes
  - Mean change in BCVA from baseline averaged over Weeks 40, 44, and 48
- Results
  - BCVA change from baseline with faricimab was noninferior to aflibercept

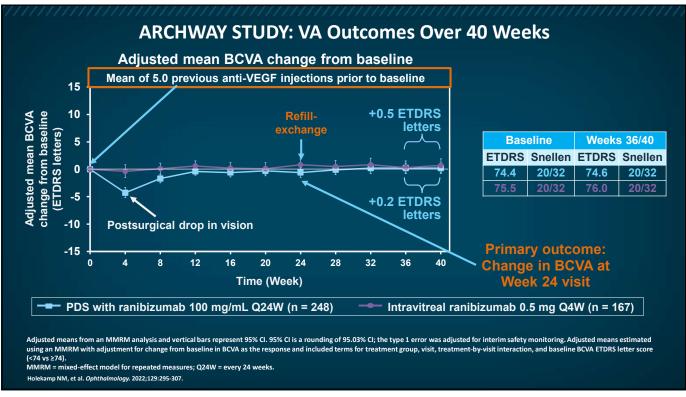


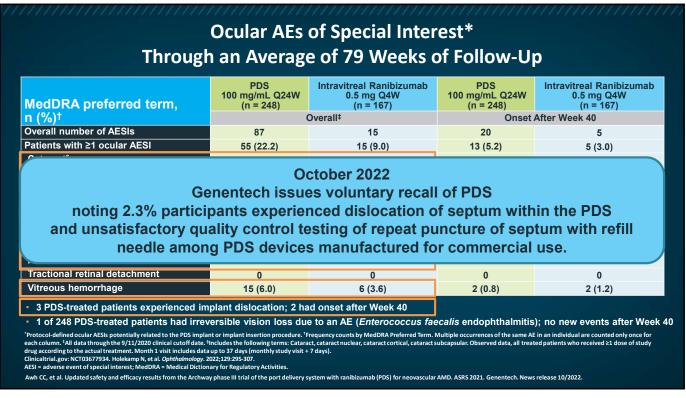
\*Approved indication for treatment intervals up to 16 weeks in nAMD (after initial 4 loading doses); regular assessment still indicated.

Heier JS, et al. Lancet. 2022;399:729-740. Faricimab (Vabysmo<sup>®</sup>) PI 2023 (https://www.gene.com/download/pdf/vabysmo\_prescribing.pdf). Accessed 4/23/2024.

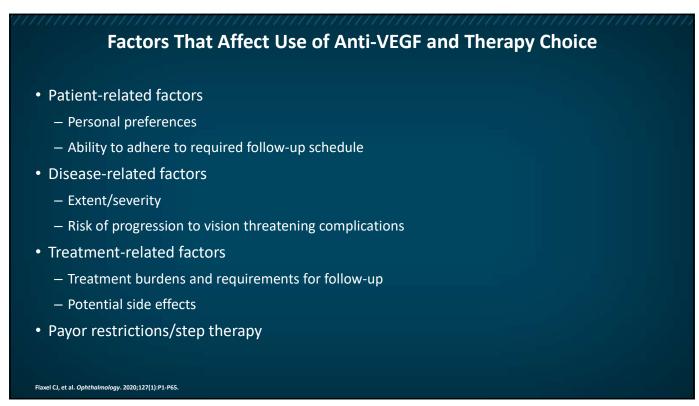


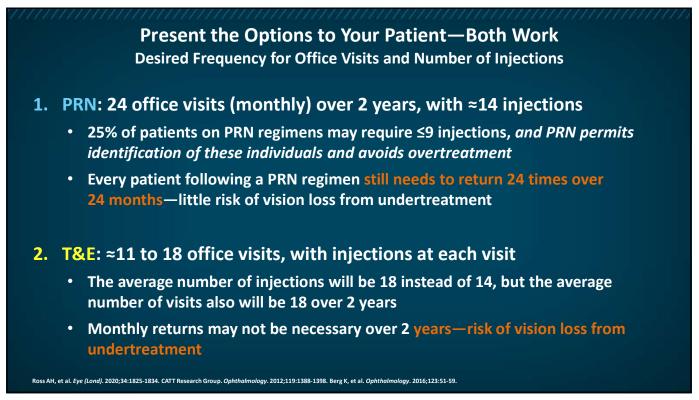






# Who Would Benefit From Anti-VEGF?





# Vision Outcomes in Clinical Trials and Real-World Studies May Be Tied to the Number of IVT Anti-VEGF Injections Received per Year

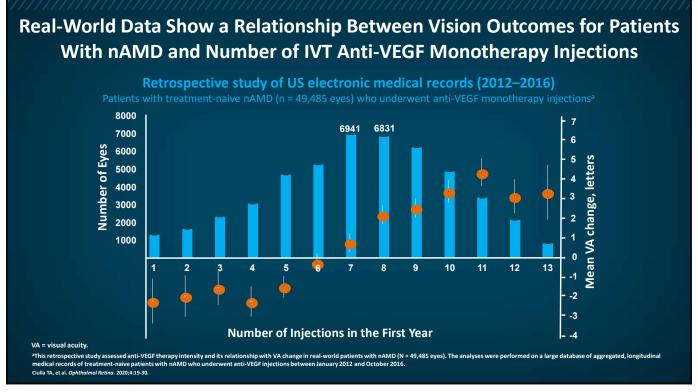
Results from 1	year of IVT anti-VEG	F monotherapy <sup>1-11</sup>

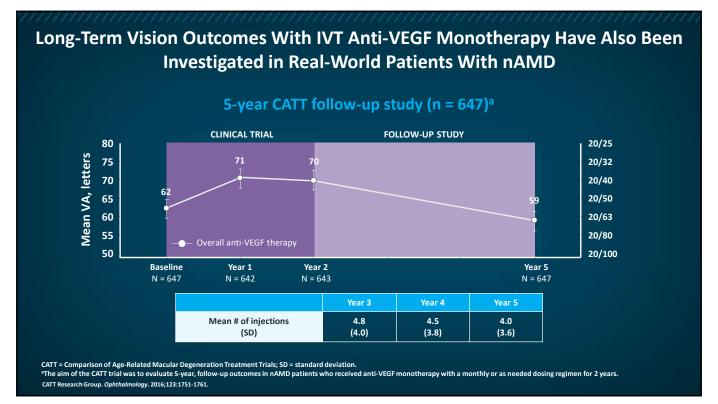
		Clinical trial data <sup>a</sup>	Real-world data <sup>a</sup>
nAMD	Mean change in BCVA from baseline (ETDRS letters)	6.6–11.3	0.4–1.1
	Mean # of injections/year	7.5–12.5	6.0–7.6
DME	Mean change in BCVA from baseline (ETDRS letters)	10.7–12.5	4.2
	Mean # of injections/year	8.4–12.2	6.4

<sup>a</sup>Table includes data from patients with nAMD and DME previously enrolled in clinical and real-world trials who received fixed and PRN dosing intervals of aVEGF monotherapy. These trials were conducted at different time periods.

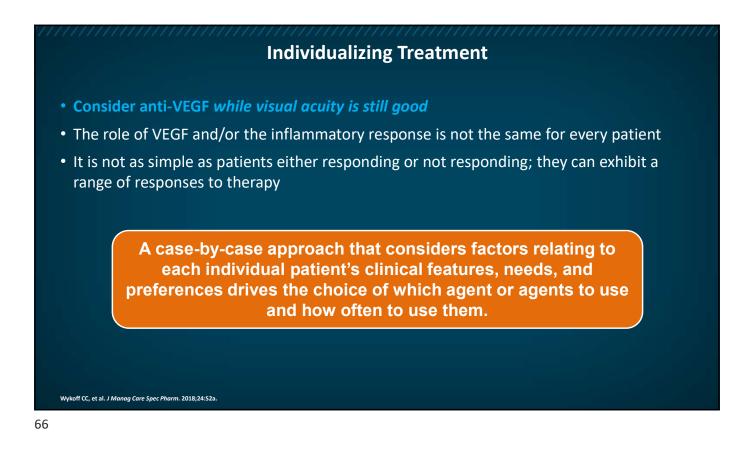
BCVA = best-corrected visual acuity; ETDRS = early treatment diabetic retinopathy study; IVT = intravitreal injection; PRN = "pro re nata" or "as needed."

1. Brown DM, et al. N Engl J Med. 2006;355:1432.1444. 2. Busbee BG, et al. Ophthalmology. 2013;120:1046-1056. 3. Heier JS, et al. Ophthalmology. 2012;119:2537-2548. 4. Rosenfeld PJ, et al. N Engl J Med. 2006;355:1419-1431. 5. Dugel PU, et al. Ophthalmology. 2020;127(1):72-84. 6. Martin DF, et al. N Engl J Med. 2011;364(20):1897-1908. 7. Khanani AM, et al. Ophthalmol Retina. 2020;4(2):122-133. 8. Kiss S, et al. Ophthalmology. 2020;127(1):72-84. 6. Martin DF, et al. N Engl J Med. 2011;364(20):1897-1908. 7. Khanani AM, et al. Ophthalmol Retina. 2020;4(2):122-133. 8. Kiss S, et al. Ophthalmology. 2020;127(9):1179-1188. 9. Ciulia TA, et al. Ophthalmol Retina. 2020;4(1):19-30. 10. Korobelnick JF, et al. Ophthalmology. 2014;121(11):2247-2254. 11. Ciulia TA, et al. Br J Ophthalmol. 2021;105(2):216-221.



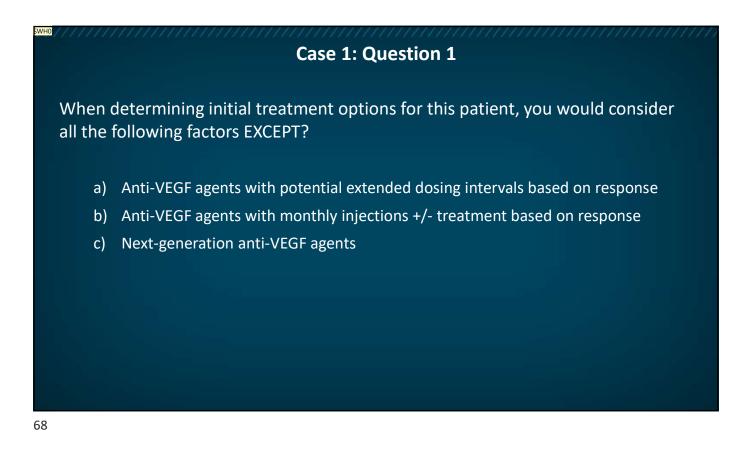






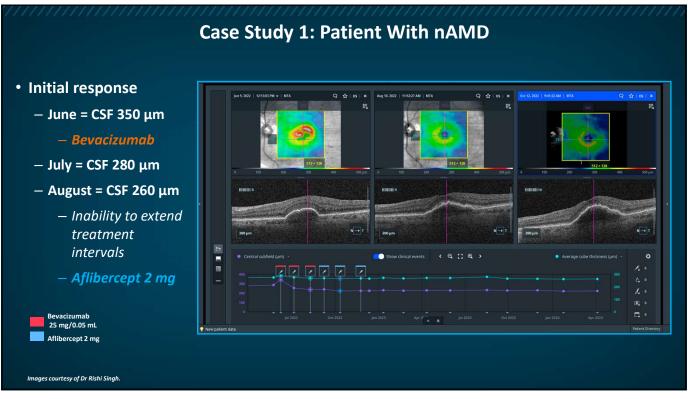
# <section-header> Case 1: Patient With AMD A 72-year-old patient with nAMD treated with bevacizumab Patient lives in a rural area and must travel 2 hours for visits June = CSF 350 µm

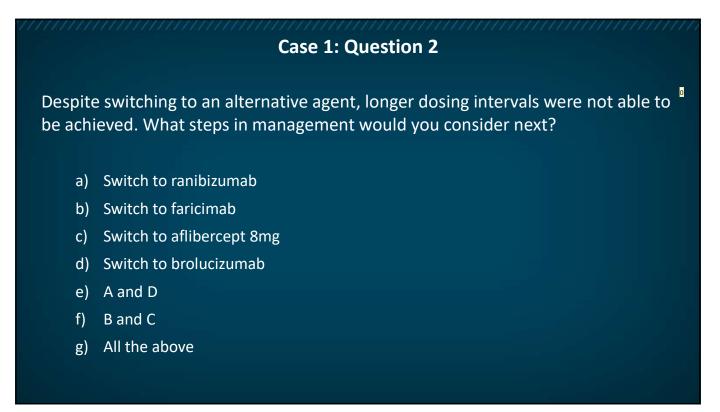
₩.



### SWH0 Answer: b

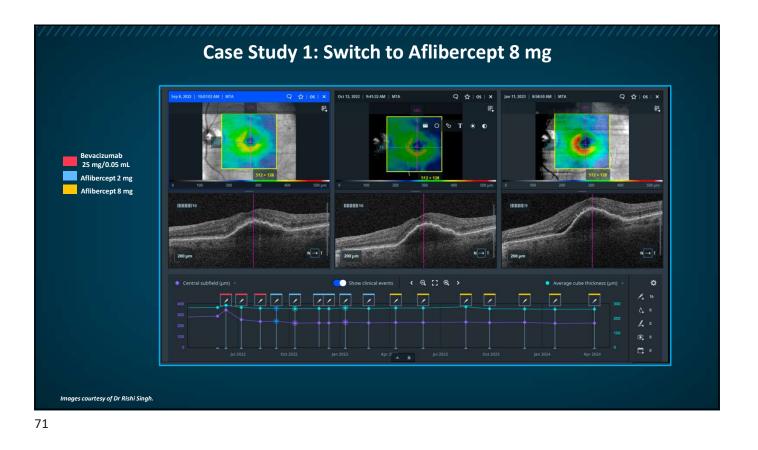
Sharon Windsor Harker, 2024-04-17T16:29:59.701





### 0 answer is F

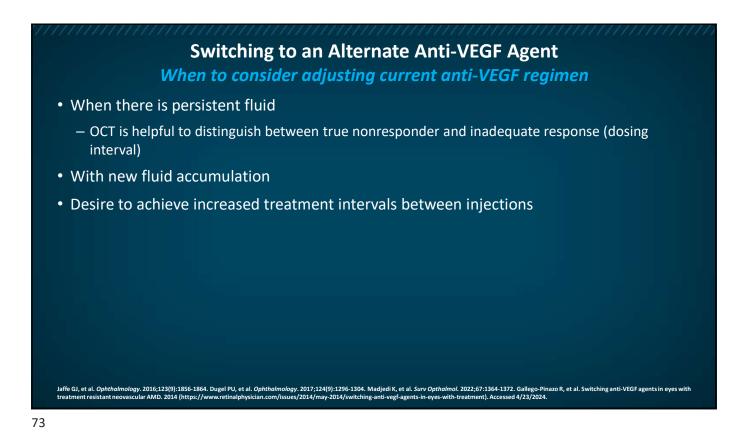
, 2024-04-18T19:57:51.586

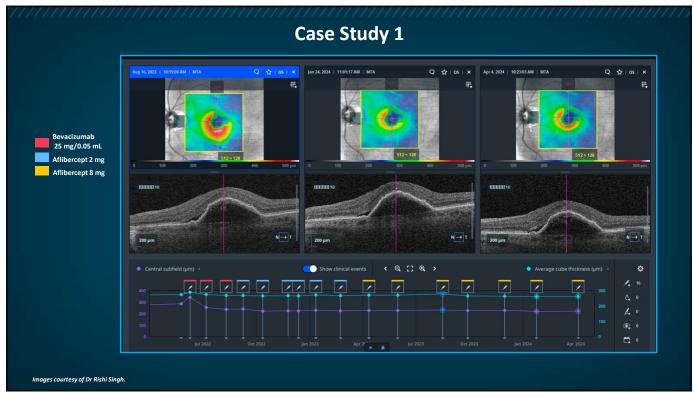


## Case 1: Question 3

After switching to another next-generation anti-VEGF, therapeutic efficacy was maintained while increasing the treatment interval. What factors should be considered to help improve potential outcomes for this patient?

- a) Consider patient's ability to adhere to treatment schedule
- b) Consider patient's personal preferences, such as less frequent trips
- c) Earlier consideration of next generation therapy
- d) A and C
- e) All the above





## Personalizing Treatment by Risks and Preferences

### Consider

- Disease severity
- Adherence
- Cost
- Patient preference
- Treatment-associated risks

### Rapport with the patient is key

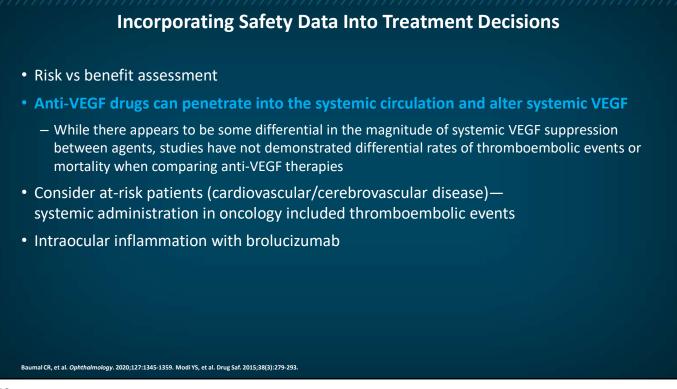
• Rapport begins with education

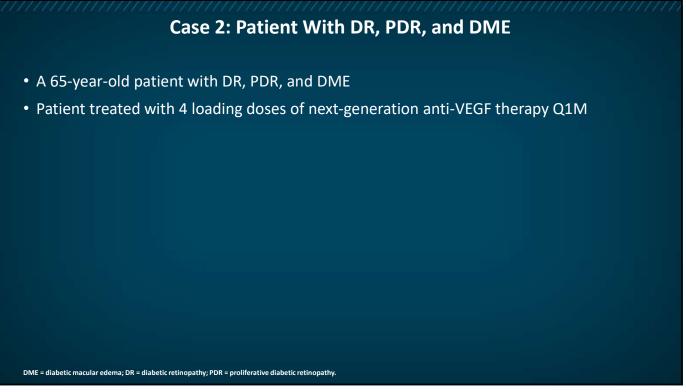
### The most important element for the patient with retinal disease is THE PATIENT MUST COME BACK!

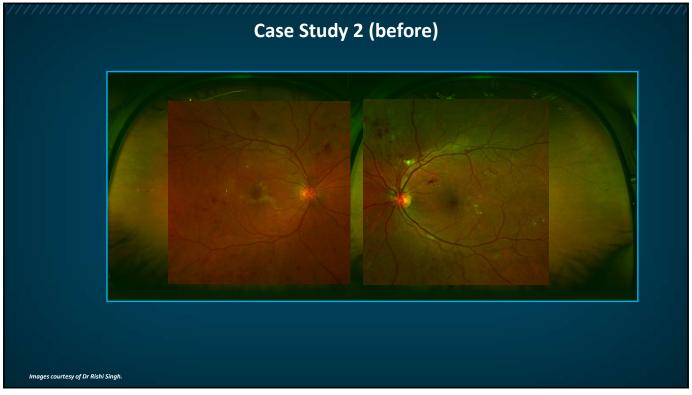
Patients with retinal disease who are lost to follow-up after anti-VEGF treatment have worse anatomic and visual outcomes and may suffer from complications resulting in irreversible vision loss.

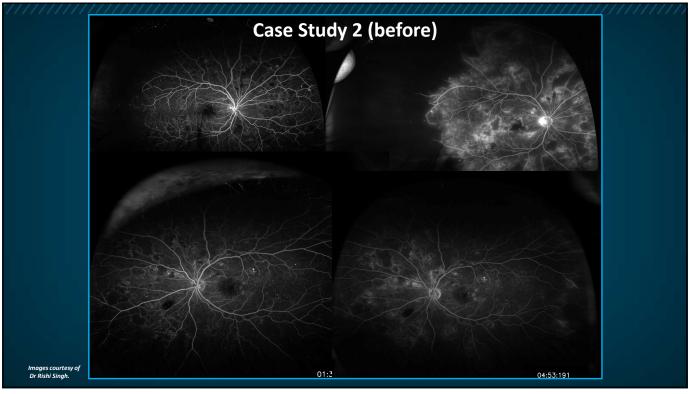
ti-vegf-in-the-management). Accessed 4/23/2024. Maturi RK, et al. JAMA Ophthalmol. 2021;139:701-712;

TRD = tractional retinal detachment. Weng C. *Retinal Physician*. 2020 (https://www.retinalph Almony A. *Am J Manag Care*. 2023;29(suppl 6):S81-S89.















# Conclusions

- Anti-VEGF therapy has revolutionized the care of the most common retinal diseases, including AMD, DR, DME, ROP, and RVO, and identifying patients who could benefit from these treatments is important
- Overall safety, tolerability, and immunogenicity profile of anti-VEGF therapy is acceptable (with exception of brolucizumab)
- Therapy can be individualized with drug selection, dosing regimen, and follow-up schedules
- More durable options with next-generation therapies can impact treatment burden and improve outcomes

