

Optimizing Real-World Outcomes in Wet AMD
*Reducing the Burden of Treatment With
Longer-Acting Therapies*



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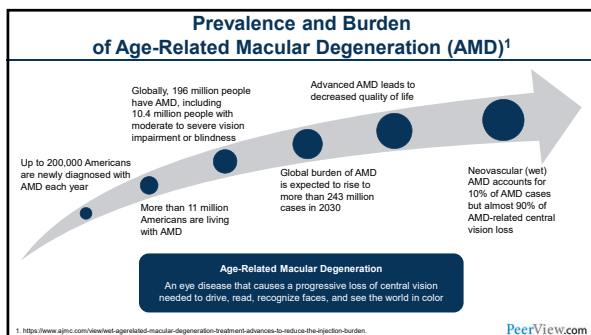
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The Real-World Burdens of Standard-of-Care Anti-VEGF Treatments for Wet AMD

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Standard-of-Care Anti-VEGF Agents Used in Wet AMD¹⁻⁴

Drug	Unlabeled Bevacizumab	Aflibercept	Ranibizumab	Eprexuzumab
Format	Full antibody (IgG1)	VEGFR1/2-Fc fusion protein	Fab fragment	Single-chain antibody fragment
Molecular structure				
Molecular weight	149 kDa	97-115 kDa	48 kDa	28 kDa
Clinical dose	1.25 mg	2.0 mg	0.50 mg	6.0 mg
FDA-approved indications	Not FDA approved for ophthalmic use	Wet AMD, MERV, DME, DR, ROP	Wet AMD, MERV, DME, DR, myopic CNV	Wet AMD, DME
Dosing intervals for wet AMD	1.25 mg every 4 wk, based on literature	Loading dose of 3 injections at 4-wk intervals and then every 8 wk	0.5 mg every 4 wk	Loading dose of 3 injections at 4-wk intervals and then every 8 wk to 12 wk

1. <https://www.aaopt.org/bevacizumab>; 2. Eylea (aflibercept) Prescribing Information. https://www.accessdata.fda.gov/drugsatfda_docs/label/2011/253871s07591.pdf; 3. Lucentis (ranibizumab injection) Prescribing Information. https://www.accessdata.fda.gov/drugsatfda_docs/label/2011/251551s11791.pdf; 4. Eprexuzumab (Eprexuzumab) Prescribing Information. https://www.accessdata.fda.gov/drugsatfda_docs/label/2023/311256/0291.pdf

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The Benefits and Burden of Intravitreal Anti-VEGF Therapies for the Treatment of Wet AMD

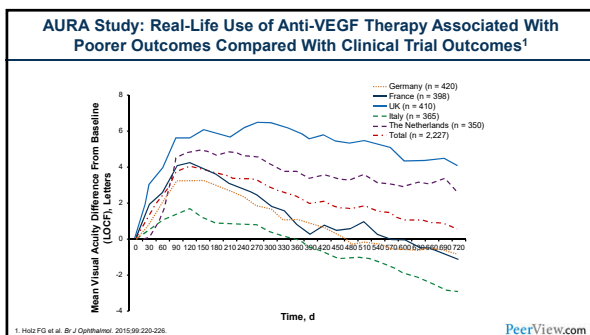
IVT anti-VEGF therapy is highly effective in clinical trials for wet AMD

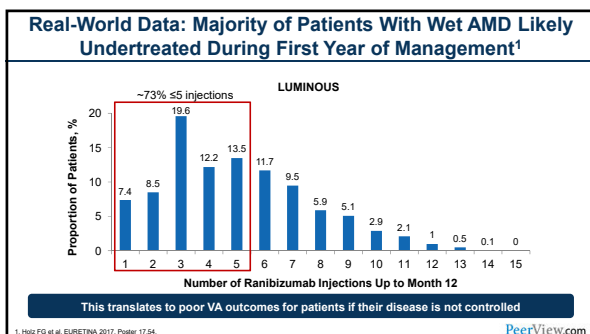
Visual outcomes drop off in the real world

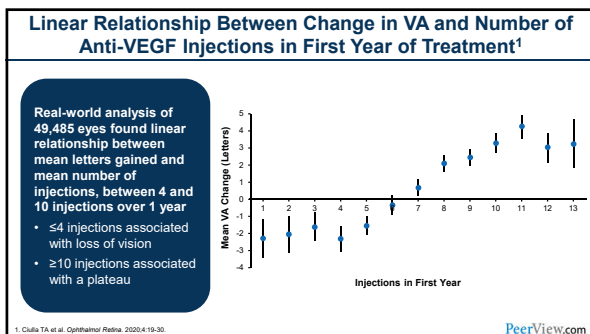
Visual outcomes correlate with treatment intensity (number of injections) in the real-world setting

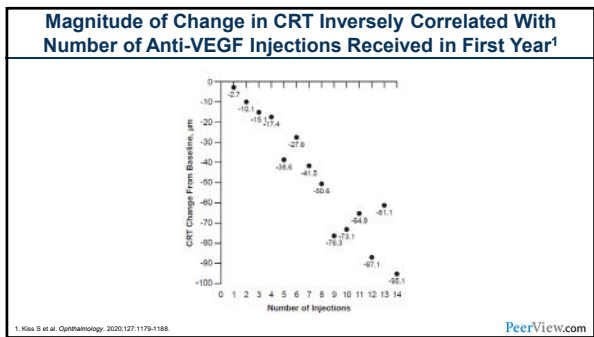
The need for frequent monitoring and injections results in a high treatment burden, leading to poor treatment adherence

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Audience Polling Question

While intravitreal anti-VEGF therapy was usually highly effective in clinical trials for wet AMD, it is less effective in the real world, with many patients receiving little to no benefit. Which patient- or treatment-related factor is the best predictor of real-world benefit from anti-VEGF treatment in patients with wet AMD?

1. I'm not sure
2. Anti-VEGF treatment selection (bevacizumab vs ranibizumab vs aflibercept)
3. Number of intravitreal injections performed
4. Patient's age
5. Patient's baseline visual acuity

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3. **Number of intravitreal injections performed**
4. Patient's age
5. Patient's baseline visual acuity

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Factors Linked to Nonadherence With Intravitreal Anti-VEGF Injections

Shortcomings/limitations of current anti-VEGF treatments

- Intensive therapy needed for maximum visual benefit
- Short duration of treatment effect
- Frequent injections and office visits
- Decreased ability to function on day of treatment
- Pain and discomfort from injection
- High out-of-pocket costs

Patient nonadherence to treatment

- Lack of knowledge about benefits of anti-VEGF therapy
- Loss of mobility
- Lack of transportation and burden on caregivers who provide rides to appointments
- Safety risk involved with office visits in the COVID era
- Fear of injections
- Fear of receiving a poor prognosis
- Serious comorbid illness taking priority
- Vacation or travel
- Financial concerns

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The Majority of Patients Experience Pain or Discomfort From Their Intravitreal Injections¹

Questionnaire developed to evaluate patient experience

142 patients participated

Principal components analysis revealed five dimensions of patient burden:

- Disruption of normal routine
- Anxiety
- Frequency of visits
- Chronicity of disease
- Perceived treatment value/satisfaction

How time consuming is your eye treatment?

Level of Time Consumption	Respondents (%)
0	17
1	9
2	17
3	30
4	15
5	10
6	3

Please rate your pain or discomfort that results from your eye injections

Pain Level	Respondents (%)
0	17
1	19
2	16
3	20
4	16
5	9
6	4

How long after injection does your pain or discomfort last?

Duration of Discomfort	Respondents (%)
None	18
10-60 min	10
2-4 hrs	12
3-4 hrs	13
8-24 hrs	15
>2 days	11
>2 days	7
>2 days	2

1. McClard CK et al. BMJ Open Ophthalmol. 2021;6:e000969. PeerView.com

The Majority of Patients Experience Anxiety Before, During, and After Their Intravitreal Injections¹

How bothered are you with the side effects or after effects you experienced with eye injections?

Bother Level	Respondents (%)
0	10
1	18
2	11
3	20
4	20
5	12
6	10

How anxious are you before your treatments?

Anxiety Level	Respondents (%)
0	30
1	11
2	11
3	18
4	12
5	5
6	14

How anxious are you during your treatments?

Anxiety Level	Respondents (%)
0	27
1	19
2	15
3	11
4	10
5	8
6	10

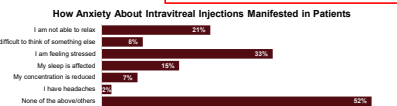
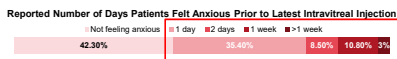
How anxious are you after your treatments?

Anxiety Level	Respondents (%)
0	39
1	9
2	14
3	8
4	7
5	9
6	15

1. McClard CK et al. BMJ Open Ophthalmol. 2021;6:e000969. PeerView.com

60% of Patients Experienced Anxiety on ≥1 Days Prior to Intravitreal Anti-VEGF Treatment¹

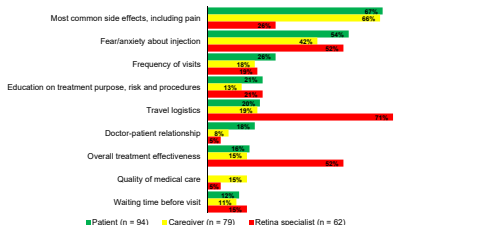
- Survey of 130 Norwegian participants with wet AMD
- Patients received 9 injections per year on average
- 38% needed caregiver support for every treatment appointment
- 55% and 26% reported treatment was uncomfortable and somewhat painful, respectively
- Emotional impact of treatment burden



¹ Rablin G et al. Clin Ophthalmol. 2023;17:1465-1474. PeerView.com

Retina Specialists and Patients/Caregivers Disagreed About Treatment Barriers That Most Impacted Treatment Adherence¹

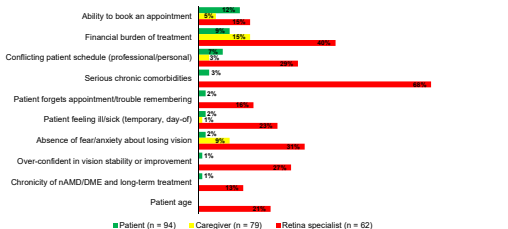
Treatment Barriers That Impacted Treatment Adherence Reported by Patients, Caregivers, and Retina Specialists




¹ Gicari-Aurigan A et al. Patient Prefer Adherence. 2022;16:587-604. PeerView.com

Retina Specialists and Patients/Caregivers Disagreed About Treatment Barriers That Most Impacted Treatment Adherence¹ (Cont'd)

Treatment Barriers Reported by Patients, Caregivers, and Retina Specialists





¹ Gicari-Aurigan A et al. Patient Prefer Adherence. 2022;16:587-604. PeerView.com

Audience Polling Question 

Based on multiple recent studies examining patient-reported treatment burdens associated with anti-VEGF therapy, which of the following actions would you take to alleviate the treatment burden and/or reduce barriers to intravitreal anti-VEGF treatment for the most patients?

1. I'm not sure
2. Facilitate enrollment in patient assistance programs to reduce the financial burden of treatment
3. Improve the management of patients' other chronic health problems
4. Manage anxiety experienced by patients prior to their scheduled treatment
5. Reduce the wait time at the clinic before the patients' visit


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Audience Polling Question 

Based on multiple recent studies examining patient-reported treatment burdens associated with anti-VEGF therapy, which of the following actions would you take to alleviate the treatment burden and/or reduce barriers to intravitreal anti-VEGF treatment for the most patients?

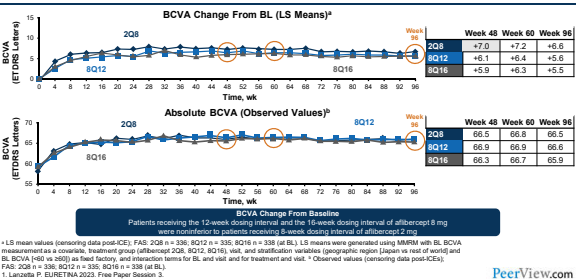
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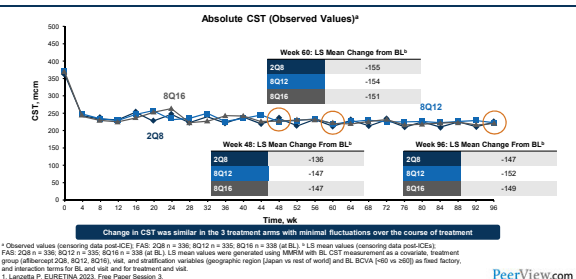
The Benefits and Limitations of Novel Wet AMD Therapies With Extended Dosing Intervals

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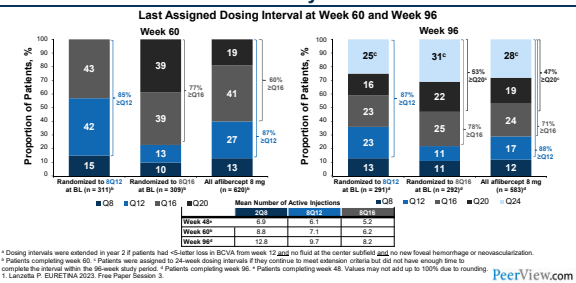
PULSAR: BCVA Outcomes at Week 96 With Aflibercept 8 mg



PULSAR: Central Subfield Thickness Through 96 Weeks¹



PULSAR: Aflibercept 8 mg Is Able to Extend to 24 Weeks in Some Patients by Week 96^{a,1}



PULSAR: Aflibercept 8 mg Safety Through Week 60¹

	2Q8	8Q12	8Q16	All 8 mg
N (SAF)	336	335	338	673
Ocular safety				
Pts with ≥1 ocular TEAE, ^a %	45.2	42.4	42.3	42.3
Pts with ≥1 IOI TEAE, %	1.2	1.2	0.3	0.7
Pts with IOP ≥35 mmHg pre- or post-injection, %	0.3	0.9	0.3	0.6
Nonocular safety				
APTC events, ^b %	2.4	0.3	0.6	0.4
Hypertension events, ^b %	4.8	6.9	6.5	6.7
Nonocular SAEs, ^b %	15.6	12.2	12.1	12.2
Deaths, ^c %	1.5	0.9	0.6	0.7


- Ocular TEAEs occurring in ≥3% of patients in any treatment group were cataract, IOP increased,^a SRF, retinal hemorrhage, visual acuity reduced, and vitreous floaters
- The safety profile of aflibercept 8 mg at week 96 is comparable to that at week 60 and also with aflibercept 2 mg

¹ In the study eye. ^a Treatment emergent. ^b All events. ^c Defined by preferred terms "intraocular pressure increased" and "ocular hypertension."
 1. Lancetta P. BURETNA 2023. Free Paper Session 3. PeerView.com

Audience Polling Question ?

What were the 96-week outcomes findings from the phase 3 PULSAR trial?

- I'm not sure
- Aflibercept 8 mg was associated with noninferior visual acuity gains and higher intraocular pressure when administered every 8 weeks compared with aflibercept 2 mg administered every 8 weeks
- Aflibercept 8 mg was associated with larger reductions in central subfield thickness and higher intraocular pressure when administered every 12 weeks compared with aflibercept 2 mg administered every 8 weeks
- Aflibercept 8 mg was associated with noninferior visual acuity gains and similar adverse event rates when administered every 16 weeks compared with aflibercept 2 mg administered every 8 weeks
- Aflibercept 8 mg was associated with larger reductions in central subfield thickness and similar adverse event rates when administered every 20 weeks compared with aflibercept 2 mg administered every 8 weeks



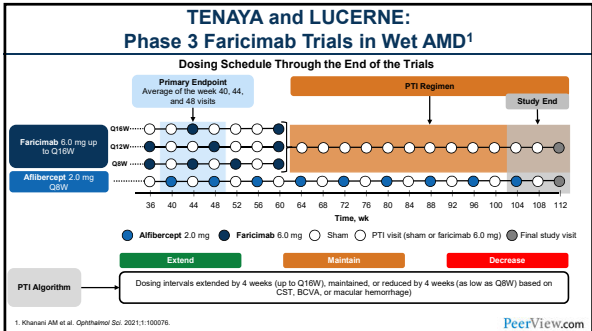
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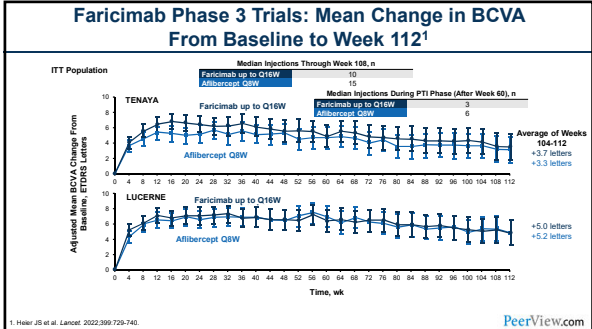
Audience Polling Question ?

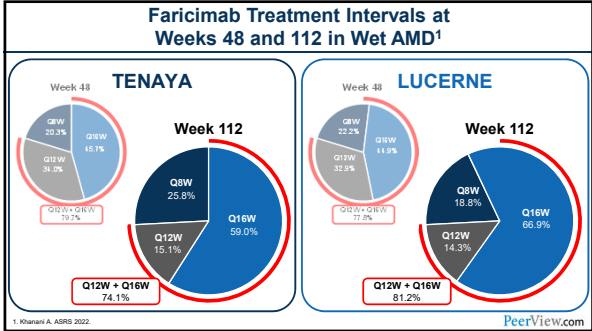
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Faricimab Pooled TENAYA and LUCERNE Safety Data¹

Exposure-Adjusted Incidence Rates of AEs Through Week 48, events/100 patient-years	Faricimab (n = 656)	Aflibercept (n = 654)
IOL events (95% CI)	2.68 (1.53-4.35)	1.52 (0.69-2.88)
Iritis	0.50	0.51
Uveitis	0.50	0.34
Keratic precipitates	0.17	0.0
Vitritis	0.50	0.17
Iridocyclitis	0.84	0.34
Chorioretinitis	0.17	0.0
Postprocedural inflammation	0.0	0.17
Endophthalmitis events	0.0	0.17
Retinal vasculitis events	0.0	0.0

¹ Guymer R et al. Angiogenesis, Exudation, and Degeneration-Vitreal Edition; Bascom Palmer Eye Institute, University of Miami Health System; February 11-12, 2022; Miami, FL. PeerView.com

FARETINA-AMD: Faricimab Real-World Data¹

Ongoing real-world data study utilizing data from the IRIS registry (AAO EHR registry); 17,500 eyes included, of which 6.2% were treatment-naïve

Best documented VA ≥20/40 in 49% treatment-experienced and 37% treatment-naïve eyes
Treatment-naïve eyes gained mean 2 letters VA; treatment-experienced eyes remained relatively stable

69% of previously treated eyes achieved an extended interval, of which 55% extended after 1-2 injections of faricimab
66% of treatment-naïve eyes, the analysis showed extended the interval, of which 43% extended after 1-2 injections

¹ Lang T et al. ASRS 2023. PeerView.com


Audience Polling Question 

What was a major difference between the FARETINA-AMD real-world study compared with the faricimab clinical trials?

- I'm not sure
- Most of the patients in FARETINA-AMD had been previously treated for wet AMD, while all of the ongoing and completed clinical trials evaluating faricimab in patients with wet AMD focused on treatment-naïve patients
- Faricimab was associated with greater visual acuity outcomes among treatment-naïve patients in the real-world study compared with the clinical trials
- Patients who were switched from aflibercept experienced a temporary loss of visual acuity, and this was not demonstrated in the clinical trials
- Patients were allowed to extend the dosing interval after 1 or 2 monthly faricimab injections rather than requiring 4 monthly injections before extending the dosing interval



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**Applying Personalized
Treatment Strategies to
Optimize Outcomes Based on
Patient Needs and Preferences**

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**First-Line Treatment Options in Wet AMD: Optimizing
Treatment Outcomes Within the Current System**

Approved and off-label anti-VEGF treatment options

• Bevacizumab (off-label)	• Ranibizumab-nuna (biosimilar)
• Ranibizumab	• Brodalumab
• Aflibercept 2 mg	• Faricimab
• Ranibizumab-eqrn (biosimilar)	• Aflibercept 8 mg

How do you select the most appropriate first-line therapy out of these options for your patients with wet AMD?

Are there any constraints put on physicians when selecting first-line therapy (eg, do payers require step therapy?)

How does this impact patient care?

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Biosimilars Can Provide a More Affordable Option for Intravitreal Anti-VEGF Therapies¹⁻³

What are biosimilars?

- Molecules that are "highly similar" to existing reference biologic products
- Provide comparable physicochemical properties, pharmacokinetics, pharmacodynamics, immunogenicity, safety, efficacy

Current and emerging biosimilars for the treatment of AMD

- Byovoiz (ranibizumab-nuna): First ophthalmology biosimilar approved in 2021 for wet AMD, macular edema from VO, myopic CNV
- Cimerli (ranibizumab-eqrn): Second ophthalmology biosimilar approved in 2022 for wet AMD, RVO, DME, DR, and mCNV
- FYB203 (afibercept 2 mg biosimilar): BLA submitted to the US FDA in June 2023 following trial in patients with nAMD

1. Woo SJ et al. JAMA Ophthalmol. 2021;139:66-76. 2. Hatz FD et al. Ophthalmol. 2022;129:54-63.
 3. <https://www.biosimilardevelopment.com/bioformycin-approvals-and-market-of-the-biologic-drugs-in-a-fixed-and-rtug-administration-tsa-0001>

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Addressing Treatment Burden With New Patients With AMD

- It's important to address potential burdens and barriers upfront, before patients become resistant to treatment
- Many issues can be solved simply through patient education

- For financial/insurance/Medicare concerns, it's helpful to have information about available patient resources prepared ahead of time
- It's important to educate patients about the serious consequences of not adhering to their treatment regimen (eg, loss of vision)
- Address potential factors that could lead to treatment nonadherence (eg, needing assistance with transportation)

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Patient-Centered Dosing Strategies for Wet AMD^{1,2}

Fixed Dosing vs PRN vs Treat-and-Extend

Fixed Dosing	PRN	Treat-and-Extend
<p>Advantages</p> <ul style="list-style-type: none"> • Consistent treatment • Predictable outcomes • Less frequent imaging <p>Disadvantages</p> <ul style="list-style-type: none"> • Nonindividualized • Overtreatment • High treatment burden • Higher cost 	<p>Advantages</p> <ul style="list-style-type: none"> • Lower treatment burden • Cost effective • More personalized <p>Disadvantages</p> <ul style="list-style-type: none"> • Fluid fluctuations • Allows for recurrent disease • Risk of irreversible damage • Inconsistent response • Frequent monitoring 	<p>Best of Both</p> <p>Treat-and-extend combines aspects of both</p> <ul style="list-style-type: none"> • Continuous regimen with a "PRN" or variable interval approach that avoids disadvantages of each method <p>Benefits</p> <p>Individualized treat-and-extend regimens have been shown to ...</p> <ul style="list-style-type: none"> • Increase treatment adherence • Achieve VA gains nearly comparable to clinical trials

Individualized treatment approaches can also be used with longer-acting treatment options (eg, afibercept 8 mg, faricimab) to further reduce treatment burden and optimize vision outcomes

1. Volkmann I et al. BMC Ophthalmol. 2020;20:122. 2. Gallardo M et al. Ophthalmol Retina. 2021;5:604-624.

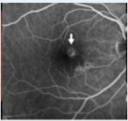
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Patient Cases

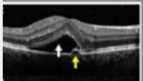
Patient 1: Treatment-Naive Wet AMD¹

Patient History <ul style="list-style-type: none">78-year-old woman with wet AMD, OSDiagnosed in November 2022Medical history includes hypertension, severe osteoarthritis limits her mobility	Baseline Ocular Features <ul style="list-style-type: none">Baseline BCVA: 20/100Baseline CST: 375 micrometersPatient also had SRF and PED
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Fluorescein angiography shows neovascular membranes that appear as hyperfluorescent lesions in the retina (arrow)



SD-OCT shows subretinal fluid (white arrow), and a small adjacent pigment epithelial detachment (yellow arrow)



1. Images from Yokokawa Y et al. J Clin Med. 2015;4:343-359. PeerView.com

Patient 1: Patient-Centered Treatment Planning


Patient History and Baseline Ocular Features <ul style="list-style-type: none">78-year-old woman with newly diagnosed bilateral wet AMDBaseline BCVA: 20/100Also has significant CST, SRF, and PED	Treatment Planning and Shared Decision-Making With Patient <ul style="list-style-type: none">Discussed the importance of treating wet AMD early with intravitreal anti-VEGF injections to optimize visual outcomes and explained that outcomes are correlated with number of injections in first year of treatmentPatient can no longer drive due to her severe osteoarthritis, so she is dependent on her daughter, who drives her to her appointments; patient lives 60 miles away, and the drive takes approximately 90 minutes each wayShe understands the need for treatment, and is willing to give it a try, but she is worried that monthly clinic appointments for injections will be too burdensome for her and her daughter, who works full-time, to participate in long term
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Audience Polling Question ?

What would you recommend for this patient's initial treatment?

1. I'm not sure
2. First-generation anti-VEGF treatment (eg, ranibizumab, aflibercept, bevacizumab)
3. Anti-VEGF biosimilar
4. Brolucizumab
5. Aflibercept 8 mg
6. Faricimab
7. Something else



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Patient 1 Case Discussion: What Treatment Approach Would You Recommend?

- Patient would be a good candidate for a treatment option with an extended dosing interval (eg, aflibercept 8 mg or faricimab)
 - After 3-4 monthly treatments, she may be able to extend the dosing interval more quickly with these agents, since they can be extended by up to 4 weeks at every visit once the disease has been controlled
 - Is there any evidence at this time to support the selection of one over the other for this patient?
 - 96-week PULSAR outcomes showed that a significant proportion of patients taking aflibercept 8 mg can extend intervals out to 24 weeks
- What if her insurance mandates step therapy (eg, requiring use of bevacizumab in first line)? How would your treatment plan change?
- What if she has bilateral wet AMD? Would that change your treatment approach?
- Any other issues to address with this patient case?

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Patient 2: Persistent Wet AMD on Ranibizumab¹

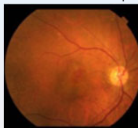
Patient History

- 66-year-old man with wet AMD, OD
- Persistent fluid and inadequate BCVA despite 2 years of ranibizumab injections, although he has missed several appointments over the time period


Current Ocular Features

- BCVA: 20/60
- CST: 350 µm
- Patient also has SRF and PED

Fundus photograph reveals the presence of polypoidal choroidal vasculopathy



SD-OCT shows slight SRF and prominent subfoveal PED




1. Images from Hirakata T et al. Clin Ophthalmology. 2016;10:969-977.

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Patient 2: Patient-Centered Treatment Planning


<p>Patient History and Current Ocular Features</p> <ul style="list-style-type: none"> 66-year-old man with wet AMD who was diagnosed 2 years ago and has been receiving ranibizumab injections, but disease persists BCVA: 20/80 Also has significant CST, SRF, and PED 	<p>Treatment Planning and Shared Decision-Making With Patient</p> <ul style="list-style-type: none"> Reviewed patient's treatment history, noting that he missed 7 appointments over past 2 years, and explained that it is important to come in for all scheduled visits to ensure that we are keeping the disease under control, since fluctuating fluid can cause cumulative damage Patient shared that he has struggled to remain adherent to treatment because the frequent intravitreal injections are very unpleasant and stressful to deal with He was frustrated to hear that his eye was not responding to the treatment, and said he didn't think it was worth it to continue getting the shots, so he was considering quitting treatment altogether
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Audience Polling Question 

What would you recommend this patient do next?

- I'm not sure
- Discontinue treatment
- Maintain current ranibizumab treatment and dosing interval
- Reduce ranibizumab dosing interval
- Switch to a ranibizumab biosimilar
- Switch to aflibercept 2 mg
- Switch to aflibercept 8 mg
- Switch to faricimab
- Something else



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Patient 2 Case Discussion: What Treatment Approach Would You Recommend?

- Patient would be a good candidate to switch to a treatment option with an extended dosing interval (eg, aflibercept 8 mg or faricimab)
 - Although he wants to quit treatment, that would be a bad idea because it would greatly increase his risk for losing sight in that eye; he is still relatively young and may have many more years ahead of him, so maintaining good visual acuity should be a top priority
 - Since he is having difficulty remaining adherent to treatment because of anxiety related to the shots, reducing the overall number of shots that he needs to undergo would improve his QOL
- What other issues should be addressed for this case?

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Summary

Wet AMD is a major cause of visual impairment and blindness with increasing prevalence as the population ages

Anti-VEGF treatments have been a game-changer for patients with wet AMD for over 15 years

More durable and longer-acting treatments that reduce injection frequency and treatment burden are now available

Treatment needs to be individualized to address patients' needs and preferences

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Audience Q&A




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Thank you, and have a good day.



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Abbreviations

QO8: 2 mg every 8 weeks	IOP: intraocular pressure
QO12: 8 mg every 12 weeks	IRF: intraretinal fluid
QO16: 8 mg every 16 weeks	IRIS: Intelligent Research in Sight
AAO: American Academy of Ophthalmology	IVT: intravitreal anti-vascular endothelial growth factor therapy
AMD: age-related macular degeneration	LS: least squares
ANG2: angiotensin-2	MERVD: macular edema following retinal vein occlusion
Anti-VEGF: anti-vascular endothelial growth factor	MMRM: mixed model for repeated measures
APTC: Anti-Platelet Trialists' Collaboration	nAMD: neovascular age-related macular degeneration
BCVA: best corrected visual acuity	OCT: optical coherence tomography
BL: baseline	PTI: personalized treatment intervals
CNV: choroidal neovascularization	Q8W: every 8 weeks
COVID: coronavirus disease	Q12W: every 12 weeks
CPT: center point retinal thickness	Q16W: every 16 weeks
CRT: central retinal thickness	ROP: retinopathy of prematurity
CST: central subfield thickness	RVO: retinal vein occlusion
DME: diabetic macular edema	SAE: serious adverse event
DR: diabetic retinopathy	SAF: safety analysis set
EHR: electronic health record	TEAE: treatment-emergent adverse event
ETDRS: Early Treatment Diabetic Retinopathy Study	SRF: subretinal fluid
EURETINA: European Society of Retina Specialists	VA: visual acuity
FAS: full analysis set	VEGF-A: vascular endothelial growth factor A
ICE: intercurrent event	VEGFR1: vascular endothelial growth factor receptor 1
IgG1: immunoglobulin G1	
IOI: intraocular inflammation	

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