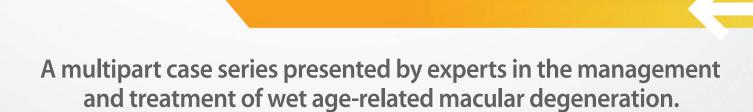
Retina Today

AMD DISEASE EDUCATION RESOURCE CENTER



Age-related macular degeneration (AMD) is a breakdown of tissues in the macula, which is responsible for central vision. Causes of the disease include drusen formation and abnormal blood vessels that leak fluid or blood into the macula. AMD is a chronic disease that can cause blurred vision and even blind spots in a patient's visual field.

There are two types of AMD: dry AMD, which is more common and less severe, and wet AMD, which is present in 10% of people with AMD.¹ Wet AMD (wAMD) occurs when abnormal blood vessels grow under the retina, a condition called choroidal neovascularization (CNV).¹ New blood vessels that leak fluid or blood can cause blurry or distorted central vision, and the longer they leak or grow, the greater the risk of a patient losing more detailed vision. Early detection and treatment of wAMD may reduce visual acuity loss and even help patients recover visual acuity.

Treatment of wAMD is typically in the form of an anti-VEGF drug and/or photodynamic therapy or photocoagulation. New treatments targeted at wAMD continue to emerge, adding to the armamentarium and offering the promise of improving patient outcomes. Patient case presentations from experts in the treatment of wAMD can offer insights in patient management. In Part 1 of this series, Elias Reichel, MD, of the New England Eye Center in Boston, shares a case in which taking an as-needed approach to treating a patient with CNV led to successful results in 13 weeks with one intravitreal anti-VEGF injection. His case, and those to come in subsequent parts of this series, can also be viewed online in the AMD Disease Education Resource Center at www.retinatoday.com.

1. Boyd K. American Academy of Ophthalmology. What is age-related macular degeneration? www.aao.org/eye-health/diseases/amd-macular-degeneration. September 1, 2013. Accessed March 17, 2016.

(Continued on page 57)



Choose EYLEA® (aflibercept)

Learn about EYLEA at EYLEA.us/rt

INDICATIONS AND IMPORTANT SAFETY INFORMATION **INDICATIONS**

EYLEA® (aflibercept) Injection is indicated for the treatment of patients with Neovascular (Wet) Age-related Macular Degeneration (AMD), Macular Edema following Retinal Vein Occlusion (RVO), Diabetic Macular Edema (DME), and Diabetic Retinopathy (DR) in Patients with DME.

CONTRAINDICATIONS

EYLEA® (aflibercept) Injection is contraindicated in patients with ocular or periocular infections, active intraocular inflammation, or known hypersensitivity to aflibercept or to any of the excipients in EYLEA.

WARNINGS AND PRECAUTIONS

- Intravitreal injections, including those with EYLEA, have been associated with endophthalmitis and retinal detachments. Proper aseptic injection technique must always be used when administering EYLEA. Patients should be instructed to report any symptoms suggestive of endophthalmitis or retinal detachment without delay and should be managed appropriately. Intraocular inflammation has been reported with the use of EYLEA.
- Acute increases in intraocular pressure have been seen within 60 minutes of intravitreal injection, including with EYLEA. Sustained increases in intraocular pressure have also been reported after repeated intravitreal dosing with VEGF inhibitors. Intraocular pressure and the perfusion of the optic nerve head should be monitored and managed appropriately.

There is a potential risk of arterial thromboembolic events (ATEs) following intravitreal use of VEGF inhibitors, including EYLEA. ATEs are defined as nonfatal stroke, nonfatal myocardial infarction, or vascular death (including deaths of unknown cause). The incidence of reported thromboembolic events in wet AMD studies during the first year was 1.8% (32 out of 1824) in the combined group of patients treated with EYLEA. The incidence in the DME studies from baseline to week 52 was 3.3% (19 out of 578) in the combined group of patients treated with EYLEA compared with 2.8% (8 out of 287) in the control group; from baseline to week 100, the incidence was 6.4% (37 out of 578) in the combined group of patients treated with EYLEA compared with 4.2% (12 out of 287) in the control group. There were no reported thromboembolic events in the patients treated with EYLEA in the first six months of the RVO studies.

ADVERSE REACTIONS

- Serious adverse reactions related to the injection procedure have occurred in <0.1% of intravitreal injections with EYLEA including endophthalmitis and retinal detachment.
- The most common adverse reactions (≥5%) reported in patients receiving EYLEA were conjunctival hemorrhage, eye pain, cataract, vitreous floaters, intraocular pressure increased, and vitreous detachment.

Please see brief summary of full Prescribing Information on the following page.

EYLEA is a registered trademark of Regeneron Pharmaceuticals, Inc.

REGENERON





BRIEF SUMMARY OF FULL PRESCRIBING INFORMATION

For complete details, see Full Prescribing Information.

1 INDICATIONS AND USAGE

EYLEA® (aflibercept) Injection is indicated for the treatment of patients with Neovascular (Wet) Age-Related Macular Degeneration (AMD), Macular Edema following Retinal Vein Occlusion (RVO), Diabetic Macular Edema (DME), and Diabetic Retinopathy (DR) in Patients with DME.

2 DOSAGE AND ADMINISTRATION

- 2.1 Important Injection Instructions. For ophthalmic intravitreal injection. EYLEA must only be administered by a qualified physician
- 2.2 Neovascular (Wet) Age-Related Macular Degeneration (AMD). The recommended dose for EYLEA is 2 mg (0.05 mL or 50 microliters) administered by intravitreal injection every 4 weeks (monthly) for the first 12 weeks (3 months), followed by 2 mg (0.05 mL) via intravitreal injection once every 8 weeks (2 months). Although EYLEA may be dosed as frequently as 2 mg every 4 weeks (monthly), additional efficacy was not demonstrated when EYLEA was dosed every 4 weeks compared to every 8 weeks.
- **2.3 Macular Edema Following Retinal Vein Occlusion (RVO).** The recommended dose for EYLEA is (0.05 mL or 50 microliters) administered by intravitreal injection once every 4 weeks (monthly).
- 2.4 Diabetic Macular Edema (DME). The recommended dose for EYLEA is (0.05 mL or 50 microliters) administered by intravitreal injection every 4 weeks (monthly) for the first 5 injections followed by 2 mg (0.05 ml.) via intravitreal injection once every 8 weeks (2 months). Although EYLEA may be dosed as frequently as 2 mg every 4 weeks (monthly), additional efficacy was not demonstrated when EYLEA was dosed every 4 weeks compared to every 8 weeks.
- 2.5 Diabetic Retinopathy (DR) in Patients with DME. The recommended dose for EYLEA is 2 mg (0.05 mL or 50 microliters) administered by intravitreal injection every 4 weeks (monthly) for the first 5 injections followed by 2 mg (0.05 mL) via intravitreal injection once every 8 weeks (2 months). Although EYLEA may be dosed as frequently as 2 mg every 4 weeks (monthly), additional efficacy was not demonstrated when EYLEA was dosed every 4 weeks compared to every 8 weeks.
- 2.6 Preparation for Administration. EYLEA should be inspected visually prior to administration. If particulates, cloudiness, or discoloration are visible, the vial must not be used. Using aseptic technique, the intravitreal injection should be performed with a 30-gauge x 1/2-inch injection needle. For complete preparation for administration instructions see full prescribing information.
- 2.7 Injection Procedure. The intravitreal injection procedure should be carried out under controlled aseptic conditions, which include surgical hand disinfection and the use of sterile gloves, a sterile drape, and a sterile eyelid speculum (or equivalent). Adequate anesthesia and a topical broad-spectrum microbicide should be given prior to the injection.

Immediately following the intravitreal injection, patients should be monitored for elevation in intraocular pressure. Appropriate monitoring may consist of a check for perfusion of the optic nerve head or tonometry. If required, a sterile paracentesis needle should be available. Following intravitreal injection, patients should be instructed to report any symptoms suggestive of endophthalmitis or retinal detachment (e.g., eye pain, redness of the eye, photophobia, blurring of vision) without delay (see Patient Counseling Information).

Each vial should only be used for the treatment of a single eve. If the contralateral eye requires treatment, a new vial should be used and the sterile field, syringe, gloves, drapes, eyelid speculum, filter, and injection needles should be changed before EYLEA is administered to the other eye. After injection, any unused product must be discarded.

3 DOSAGE FORMS AND STRENGTHS

Single-use, glass vial designed to provide 0.05 mL of 40 mg/mL solution (2 mg) for intravitreal injection.

4 CONTRAINDICATIONS

EYLEA is contraindicated in patients with

- · Ocular or periocular infections
- Active intraocular inflammation
- Known hypersensitivity to aflibercept or any of the excipients in EYLEA Hypersensitivity reactions may manifest as severe intraocular inflammation

5 WARNINGS AND PRECAUTIONS

- 5.1 Endophthalmitis and Retinal Detachments. Intravitreal injections, including those with EYLEA, have been associated with endophthalmitis and retinal detachments (see Adverse Reactions). Proper asentic injection technique must always be used when administering EYLEA. Patients should be instructed to report any symptoms suggestive of endophthalmitis or retinal detachment without delay and should be managed appropriately (see Dosage and Administration and Patient Counseling Information).
- 5.2 Increase in Intraocular Pressure. Acute increases in intraocular pressure have been seen within 60 minutes of intravitreal injection, including with EYLEA (see Adverse Reactions). Sustained increases in intraocular pressure have also been reported after repeated intravitreal dosing with vascular edothelial growth factor (VEGF) inhibitors. Intraocular

 Less common adverse reactions reported in <1% of the patients treated pressure and the perfusion of the optic nerve head should be monitored and managed appropriately (see Dosage and Administration).
- 5.3 Thromboembolic Events. There is a potential risk of arterial Diabetic Macular Edema (DME). The data described below reflect thromboembolic events (ATEs) following intravitreal use of VEGF inhibitors, exposure to EYLEA in 578 patients with DME treated with the 2-mg dose including EYLEA. ATEs are defined as nonfatal stroke, nonfatal myocardial in 2 double-masked, controlled clinical studies (VIVID and VISTA) from infarction, or vascular death (including deaths of unknown cause). The baseline to week 52 and from baseline to week 100.

incidence of reported thromboembolic events in wet AMD studies during the first year was 1.8% (32 out of 1824) in the combined group of patients treated with EYLEA. The incidence in the DME studies from baseline to week 52 was 3.3% (19 out of 578) in the combined group of patients treated with EYLEA compared with 2.8% (8 out of 287) in the control group; from baseline to week 100, the incidence was 6.4% (37 out of 578) in the combined group of patients treated with EYLEA compared with 4.2% (12 out of 287) in the control group. There were no reported thromboembolic events in the patients treated with EYLEA in the first six months of the RVO studies.

6 ADVERSE REACTIONS

The following adverse reactions are discussed in greater detail in the Warnings and Precautions section of the labeling:

- Endophthalmitis and retinal detachments
- Increased intraocular pressure
- Thromboembolic events
- 6.1 Clinical Trials Experience. Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in other clinical trials of the same or another drug and may not reflect the rates observed in practice.

A total of 2711 patients treated with EYLEA constituted the safety population in seven phase 3 studies. Among those, 2110 patients were treated with the recommended dose of 2 mg. Serious adverse reactions related to the injection procedure have occurred in <0.1% of intravitreal injections with EYLEA including endophthalmitis and retinal detachment. The most common adverse reactions (≥5%) reported in patients receiving EYLEA were conjunctival hemorrhage, eye pain, cataract, vitreous floaters, intraocular pressure increased, and vitreous detachment.

Neovascular (Wet) Age-Related Macular Degeneration (AMD). The data described below reflect exposure to EYLEA in 1824 patients with wet AMD, including 1223 patients treated with the 2-mg dose, in 2 double-masked, active-controlled clinical studies (VIEW1 and VIEW2) for 12 months.

Table 1: Most Common Adverse Reactions (≥1%) in Wet AMD Studies

Adverse Reactions	EYLEA (N=1824)	Active Control (ranibizumab) (N=595)
Conjunctival hemorrhage	25%	28%
Eye pain	9%	9%
Cataract	7%	7%
Vitreous detachment	6%	6%
Vitreous floaters	6%	7%
Intraocular pressure increased	5%	7%
Ocular hyperemia	4%	8%
Corneal epithelium defect	4%	5%
Detachment of the retinal pigment epithelium	3%	3%
Injection site pain	3%	3%
Foreign body sensation in eyes	3%	4%
Lacrimation increased	3%	1%
Vision blurred	2%	2%
Intraocular inflammation	2%	3%
Retinal pigment epithelium tear	2%	1%
Injection site hemorrhage	1%	2%
Eyelid edema	1%	2%
Corneal edema	1%	1%

Less common serious adverse reactions reported in <1% of the patients treated with EYLEA were hypersensitivity, retinal detachment, retinal tear, and endophthalmitis

Macular Edema Following Retinal Vein Occlusion (RVO). The data described below reflect 6 months exposure to EYLEA with a monthly 2 mg dose in 218 patients following CRVO in 2 clinical studies (COPERNICUS and GALILEO) and 91 patients following BRVO in one clinical study (VIBRANT).

Table 2: Most Common Adverse Reactions (≥1%) in RVO Studies

Adverse Reactions	CRVO		BRV0	
	EYLEA (N=218)	Control (N=142)	EYLEA (N=91)	Control (N=92)
Eye pain	13%	5%	4%	5%
Conjunctival hemorrhage	12%	11%	20%	4%
Intraocular pressure increased	8%	6%	2%	0%
Corneal epithelium defect	5%	4%	2%	0%
Vitreous floaters	5%	1%	1%	0%
Ocular hyperemia	5%	3%	2%	2%
Foreign body sensation in eyes	3%	5%	3%	0%
Vitreous detachment	3%	4%	2%	0%
Lacrimation increased	3%	4%	3%	0%
Injection site pain	3%	1%	1%	0%
Vision blurred	1%	<1%	1%	1%
Intraocular inflammation	1%	1%	0%	0%
Cataract	<1%	1%	5%	0%
Eyelid edema	<1%	1%	1%	0%

with EYLEA in the CRVO studies were corneal edema, retinal tear hypersensitivity, and endophthalmitis.

Adverse Reactions	Baseline to Week 52		Baseline to Week 100	
	EYLEA (N=578)	Control (N=287)	EYLEA (N=578)	Control (N=287)
Conjunctival hemorrhage	28%	17%	31%	21%
Eye pain	9%	6%	11%	9%
Cataract	8%	9%	19%	17%
Vitreous floaters	6%	3%	8%	6%
Corneal epithelium defect	5%	3%	7%	5%
Intraocular pressure increased	5%	3%	9%	5%
Ocular hyperemia	5%	6%	5%	6%
Vitreous detachment	3%	3%	8%	6%
Foreign body sensation in eyes	3%	3%	3%	3%
Lacrimation increased	3%	2%	4%	2%
Vision blurred	2%	2%	3%	4%
Intraocular inflammation	2%	<1%	3%	1%
Injection site pain	2%	<1%	2%	<1%
Eyelid edema	<1%	1%	2%	1%

with EYLEA were hypersensitivity, retinal detachment, retinal tear, corneal edema, and injection site hemorrhage.

6.2 Immunogenicity. As with all therapeutic proteins, there is a potential for an immune response in patients treated with EYLEA. The immunogenicity of EYLEA was evaluated in serum samples. The immunogenicity data reflect the percentage of patients whose test results were considered positive for antibodies to EYLEA in immunoassays. The detection of an immune response is highly dependent on the sensitivity and specificity of the assays used, sample handling, timing of sample collection, concomitant medications, and underlying disease. For these reasons, comparison of the incidence of antibodies to EYLEA with the incidence of antibodies to other products may be misleading.

In the wet AMD, RVO, and DME studies, the pre-treatment incidence of immunoreactivity to EYLEA was approximately 1% to 3% across treatment groups. After dosing with EYLEA for 24-100 weeks, antibodies to EYLEA were detected in a similar percentage range of patients. There were no differences in efficacy or safety between patients with or without immunoreactivity.

8 USE IN SPECIFIC POPULATIONS

- 8.1 Pregnancy. Pregnancy Category C. Aflibercept produced embryofetal toxicity when administered every three days during organogenesis to pregnant rabbits at intravenous doses ≥ 3 mg per kg, or every six days at subcutaneous doses ≥ 0.1 mg per kg. Adverse embryo-fetal effects included increased incidences of postimplantation loss and fetal malformations, including anasarca, umbilical hernia, diaphragmatic hernia, gastroschisis, cleft palate, ectrodactyly, intestinal atresia, spina bifida, encephalomeningocele, heart and major vessel defects, and skeletal malformations (fused vertebrae, sternebrae, and ribs; supernumerary vertebral arches and ribs; and incomplete ossification). The maternal No Observed Adverse Effect Level (NOAEL) in these studies was 3 mg per kg. Aflibercept produced fetal malformations at all doses assessed in rabbits and the fetal NOAEL was less than 0.1 mg per kg. Administration of the lowest dose assessed in rabbits (0.1 mg per kg) resulted in systemic exposure (AUC) that was approximately 10 times the systemic exposure observed in humans after an intravitreal dose of 2 mg. There are no adequate and well-controlled studies in pregnant women. EYLEA should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.
- 8.3 Nursing Mothers. It is unknown whether aflibercept is excreted in human milk. Because many drugs are excreted in human milk, a risk to the breastfed child cannot be excluded. EYLEA is not recommended during breastfeeding. A decision must be made whether to discontinue nursing or to discontinue treatment with EYLEA, taking into account the importance of the drug to the mother.
- 8.4 Pediatric Use. The safety and effectiveness of EYLEA in pediatric patients have not been established.
- 8.5 Geriatric Use. In the clinical studies, approximately 76% (2049/2701) of patients randomized to treatment with EYLEA were \geq 65 years of age and approximately 46% (1250/2701) were \geq 75 years of age. No significant differences in efficacy or safety were seen with increasing age in these studies

17 PATIENT COUNSELING INFORMATION

In the days following EYLEA administration, patients are at risk of developing endophthalmitis or retinal detachment. If the eye becomes red, sensitive to light, painful, or develops a change in vision, advise patients to seek immediate care from an ophthalmologist (see Warnings and Precautions). Patients may experience temporary visual disturbances after an intravitreal injection with EYLEA and the associated eye examinations (see Adverse Reactions). Advise patients not to drive or use machinery until visual function has recovered sufficiently.

REGENERON

Manufactured by: Regeneron Pharmaceuticals, Inc. 777 Old Saw Mill River Road Tarrytown, NY 10591-6707

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U.S. License Number 1760 EYLEA is a registered trademark of Regeneron Pharmaceuticals, Inc. © 2015, Regeneron Pharmaceuticals, Inc.

Regeneron U.S. Patents 7,070,959; 7,303,746; 7,303,747; 7,306,799; 7,374,757; 7,374,758; 7,531,173; 7,608,261; 7,972,598; 8,029,791; 8,092,803; 8,647,842; and other pending patents. LEA-0721

PRN Therapy for Treatment of CNV

BY ELIAS REICHEL, MD



According to the Macular Degeneration Partnership, wet age-related macular degeneration (wAMD) accounts for 90% of the severe vision loss caused by macular degeneration. Current therapy of choroidal neovascularization (CNV) due to wAMD focuses on drugs that block VEGF. Inhibition of VEGF in neovascular AMD results in reduction of the vascular permeability that

leads to loss of intraretinal and subretinal fluid. Current anti-VEGF treatment options for wAMD include aflibercept (Eylea, Regeneron), ranibizumab (Lucentis, Genentech), and off-label use of bevacizumab (Avastin, Genentech). These are considered first-line therapies for neovascular AMD. Repeated treatments may be necessary, as often as once per month, but alternative treatment strategies have been devised that allow a reduction in treatment burden while maintaining effectiveness.

As with all diseases, early detection and treatment and close follow-up are key to achieving good results. This article highlights the use of as-needed (PRN) therapy for CNV in a patient with AMD.

PRN AT A GLANCE

PRN is an accepted approach to treating patients with a variety of diseases, including wAMD. In this approach, retina specialists typically rely on optical coherence tomography (OCT) to monitor the effects of treatment. The images can be used to determine whether to continue a patient on the treatment initially selected, switch to another therapy, or add a new therapy.

A number of clinical trials have examined the PRN regimen used with intravitreal anti-VEGF injections. Although relatively small and lacking a control group, the PRONTO trial studied a PRN regimen with monthly visits in 40 patients.² After the initiation phase, monitoring was done monthly, and retreatment was based on visual acuity, fundus examination, and OCT findings. The study researchers noted that 82% of patients experienced no loss of vision and that there was an average visual acuity gain of 9.3 letters after the first 3 months.² This gain remained stable for the full 12 months.² Additionally, 5.9 injections were given over the course of 1 year, suggesting that OCT-guided PRN retreatment could sustain visual acuity gains with fewer injections.

The SUSTAIN trial was a larger-scale study that examined an individualized PRN regimen with an anti-VEGF drug in 513 patients.³ With an average of 5.6 injections, the mean change in visual acuity at the end of the initiation phase was +5.8 letters, and after 12 months the improvement was +3.6 letters from baseline.³

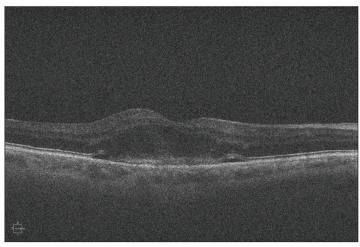


Figure 1. Baseline SD-OCT. Patient was given intravitreal aflibercept at

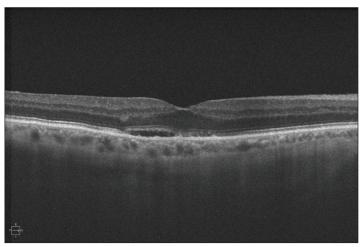


Figure 2. Patient's SD-OCT at 2 weeks.

The CATT trial, on the other hand, led to a different conclusion, as it demonstrated that PRN treatment resulted in less gain in visual acuity, whether such treatment was instituted at enrollment or after 1 year of monthly treatment.^{4,5}

When treating patients with wAMD, I prefer to follow a strict approach of observing patients closely once I initiate a treatment so that I can better decide how to continue their therapy. The case below is a perfect example of how a PRN regimen delivered a successful outcome and avoided unnecessary additional injections.

PATIENT CASE

An 86-year-old man had decreased vision in his right eye (OD) associated with a subretinal hemorrhage. His visual acuity was 20/60

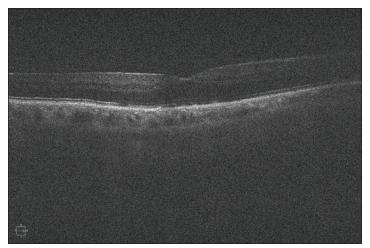


Figure 3. Patient's SD-OCT at 4 weeks.

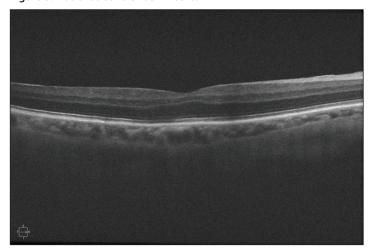


Figure 4. Patient's SD-OCT at 9 weeks.

OD. OCT showed intraretinal fluid, subretinal fluid, and some disruption of the retinal pigment epithelium, but the patient tolerated the injection well (Figure 1). On his first exam date, he received the standard dose of intravitreal aflibercept. We decided to follow him closely, which is important when taking a PRN approach to treating CNV.

At week 2, the patient's visual acuity was 20/60 OD, and an OCT scan showed that much of the intraretinal fluid had resolved (Figure 2). A small area of subretinal fluid could be detected near the fovea, but we decided to follow the patient with no further therapy. At week 4 the patient's visual acuity was 20/70 OD, the area of subretinal fluid was gone, and there was no detectable intraretinal fluid. Additionally, the fovea was taking on a more normal contour at that point (Figure 3). At week 9, no intraretinal or subretinal fluid could be seen on OCT (Figure 4), the patient's visual acuity had improved modestly to 20/50, and he was happy with the result. We continued to follow him closely with no further treatment.

At week 13, the patient's visual acuity was 20/50 OD. OCT showed normal foveal contour to the retina and no intraretinal or subretinal fluid (Figure 5). At this point, he was very happy with his visual acuity result.

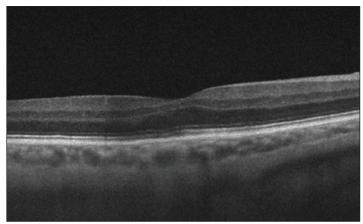


Figure 5. Patient's SD-OCT at 13 weeks after only one aflibercept injection given at baseline.

CONCLUSION

It is important to remember that results from the CATT and IVAN trials suggest that about 15% to 20% of patients need only one to three injections in the first year of therapy.⁴⁻⁷ In fact, about 6% or 7% of patients need only one injection in their first year of therapy. Therefore, by using a PRN strategy, we can save patients from having to receive more injections than is necessary. PRN therapy does require close observation, particularly in the first 6 months of treatment, but thereafter patients can actually be seen less frequently once the cycle at which they need intravitreal anti-VEGF injections has been established.

A video of Dr. Reichel presenting this case can be found on Retina Today's AMD Disease Education Resource Center: bit.ly/ReichelAMD.

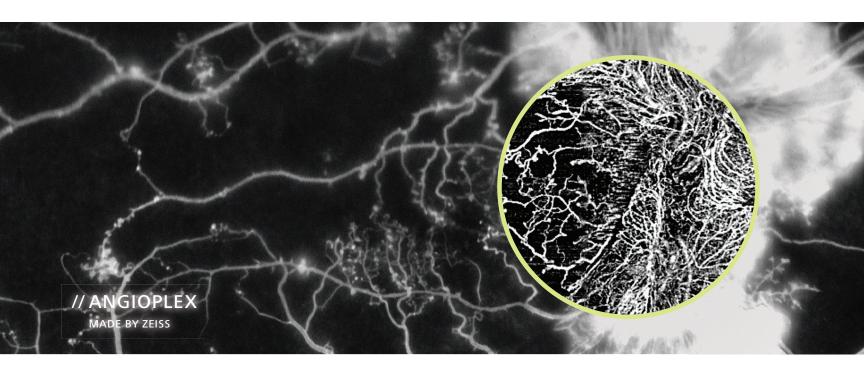
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Elias Reichel, MD

- professor and vice chairman of the department of ophthalmology and director of the vitreoretinal service at Tufts University School of Medicine at the New England Eye Center in Boston, Mass.
- financial disclosure: Regeneron (research support, speaker)
- ereichel@tufts-nemc.org

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