

## HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use IZERVAY safely and effectively. See full prescribing information for IZERVAY.

**IZERVAY™ (avacincaptad pegol intravitreal solution)**  
**Initial U.S. Approval: 2023**

### RECENT MAJOR CHANGES

Warnings and Precautions, Neovascular AMD (5.2) Neovascular AMD) 2/2025

### INDICATIONS AND USAGE

IZERVAY is a complement inhibitor indicated for the treatment of geographic atrophy (GA) secondary to age-related macular degeneration (AMD) (1).

### DOSAGE AND ADMINISTRATION

The recommended dose for IZERVAY is 2 mg (0.1 mL of 20 mg/mL solution) administered by intravitreal injection to each affected eye once monthly (approximately 28 ± 7 days) (2.2).

### DOSAGE FORMS AND STRENGTHS

Intravitreal solution: 20 mg/mL in a single-dose vial (3).

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- Active intraocular inflammation (4.2).

### WARNINGS AND PRECAUTIONS

- Endophthalmitis and Retinal Detachments (5.1).
- Neovascular AMD (5.2)
- Increase in Intraocular Pressure (IOP) (5.3).

### ADVERSE REACTIONS

The most common adverse reactions were conjunctival hemorrhage (13%), increased IOP (9%), blurred vision (8%) and neovascular age-related macular degeneration (7%) (6.1).

To report SUSPECTED ADVERSE REACTIONS, contact Astellas Pharma US, Inc. at 1-800-727-7003 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).

### See 17 for PATIENT COUNSELING INFORMATION

Revised: 2/2025

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## **FULL PRESCRIBING INFORMATION**

### **1 INDICATIONS AND USAGE**

IZERVAY™ is indicated for the treatment of geographic atrophy (GA) secondary to age-related macular degeneration (AMD).

### **2 DOSAGE AND ADMINISTRATION**

#### **2.1 General Dosing Information**

IZERVAY must be administered by a qualified physician.

#### **2.2 Recommended Dosage**

The recommended dose for IZERVAY is 2 mg (0.1 mL of 20 mg/mL solution) administered by intravitreal injection to each affected eye once monthly (approximately every  $28 \pm 7$  days).

#### **2.3 Preparation for Administration**

##### **Important information you should know before you begin:**

- Read all the instructions carefully before using IZERVAY.
- The IZERVAY kit includes a glass vial, filter needle, and an empty syringe. The glass vial, filter needle, and empty syringe are for single use only.
- Store IZERVAY in the refrigerator at temperatures between 2°C to 8°C (36°F to 46°F). Do not freeze. Do not shake.
- Prior to use, allow IZERVAY to reach room temperature, 20°C to 25°C (68°F to 77°F). The IZERVAY vial may be kept at room temperature for up to 24 hours. Keep the vial in the original carton to protect from light.
- Use aseptic technique to carry out the preparation of the intravitreal injection.
- Each vial should only be used for the treatment of a single eye.

### Step 1: Gather Supplies

Gather the following supplies (see [Figure A](#)):

- One IZERVAY vial (included)
- One sterile 5-micron filter needle 18-gauge x 1½ inch (included)
- One sterile 1 mL Luer lock syringe with a 0.1 mL dose mark (included)
- One sterile injection needle 30-gauge x ½ inch (not included)

NOTE: a 30-gauge injection needle is recommended to avoid increased injection forces that could be experienced with smaller diameter needles.

- Alcohol swab (not included)

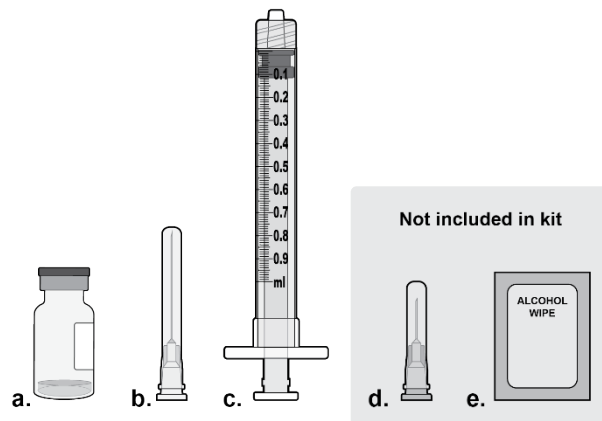


Figure A

### Step 2: Inspect Vial

Inspect the liquid in the vial. It should be a clear to slightly opalescent, colorless to slightly yellow liquid solution (see [Figure B](#)).

**Do not** use if particulates, cloudiness, or discoloration are visible.

**Do not** use if the packaging, vial, filter needle, injection needle, and/or empty syringe are expired, damaged, or have been tampered with.

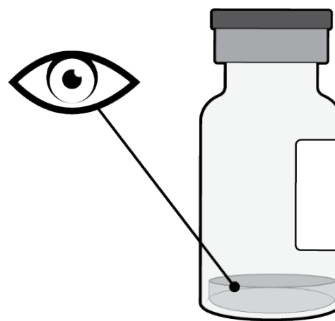


Figure B

### Step 3: Orient Vial

Place the vial upright on a flat surface for about 1 minute after removal from packaging to make sure all liquid settles at the bottom of the vial (see *Figure C*).

Gently tap the vial with your finger to remove any liquid that may stick to the top of the vial (see *Figure D*).

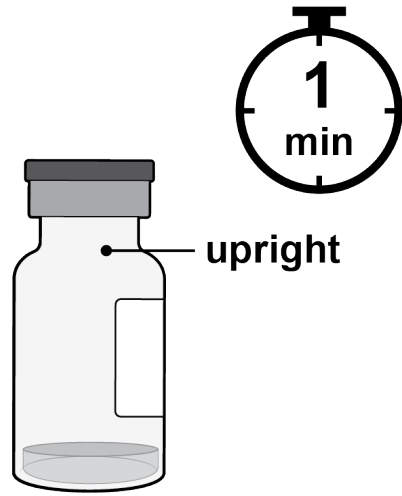


Figure C

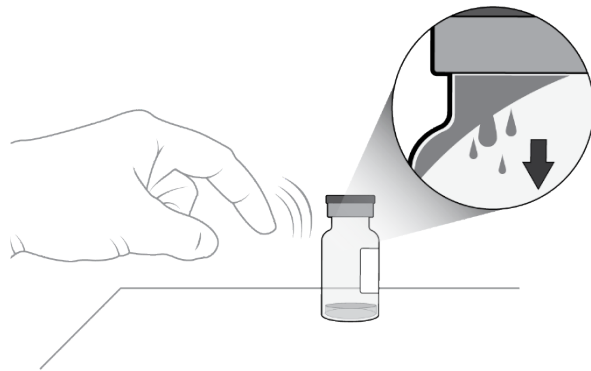


Figure D

#### Step 4: Clean Vial

Remove the flip-off cap from the vial (see [Figure E](#)).

Gently wipe the vial septum with an alcohol swab (see [Figure F](#)).



Figure E

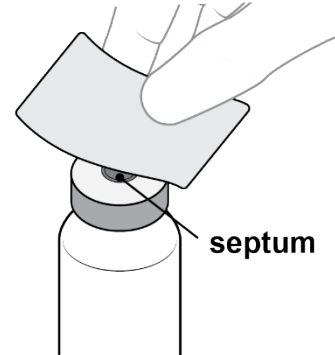


Figure F

#### Step 5: Attach Filter Needle

Using aseptic technique, firmly attach the included 18-gauge x 1½ inch filter needle onto the 1 mL Luer lock syringe and twist clockwise to secure (see [Figure G](#)).

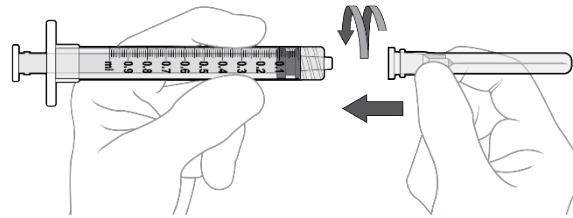


Figure G

#### Step 6: Insert Filter Needle into Vial

Using aseptic technique, push the filter needle all the way into the center of the vial septum (see [Figure H](#)).

Tilt the vial slightly so that the needle touches the bottom edge of the vial (see [Figure I](#)).

Rotate the filter needle so that the bevel is submerged into the liquid to avoid introduction of air.

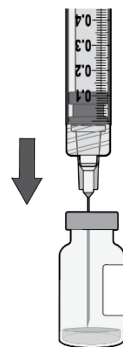


Figure H

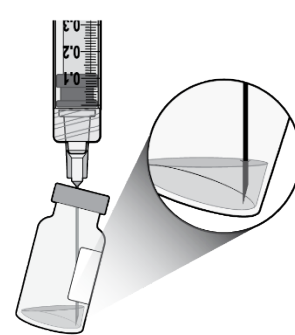


Figure I

### Step 7: Withdraw Liquid

Slowly withdraw all the liquid from the vial (see [Figure J](#)).

Draw the plunger rod back far enough to completely empty the filter needle.

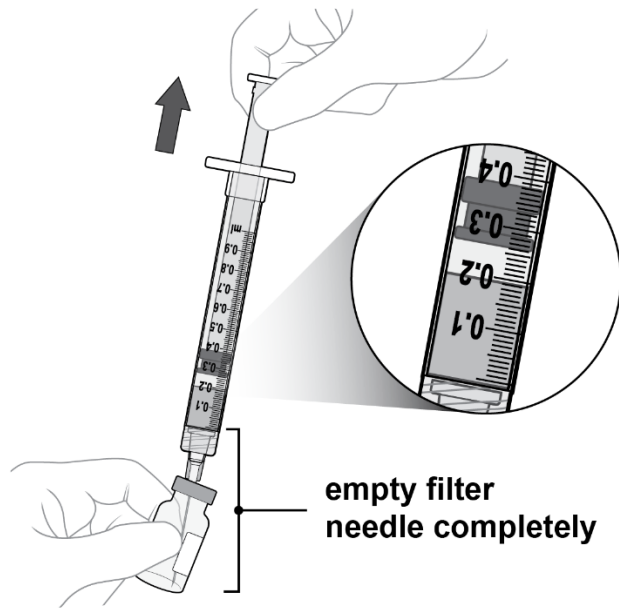


Figure J

### Step 8: Disconnect Filter Needle

Disconnect the filter needle from the syringe and dispose of it in accordance with local regulations (see [Figure K](#)).

**Do not use the filter needle for the intravitreal injection.**

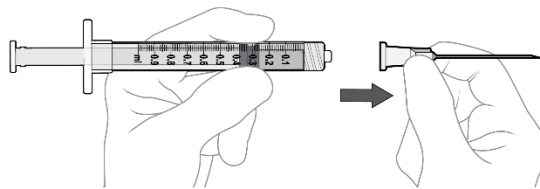


Figure K

### Step 9: Attach Injection Needle

Using aseptic technique, firmly attach the 30-gauge x ½ inch injection needle onto the Luer lock syringe. (see [Figure L](#)). Carefully remove the plastic needle shield from the needle by pulling it straight off (see [Figure M](#)).



Figure L



Figure M

### Step 10: Check Syringe

Check for air bubbles by holding the syringe with the needle pointing up. If there are any air bubbles, gently tap the syringe with your finger until the bubbles rise to the top (see [Figure N](#)).

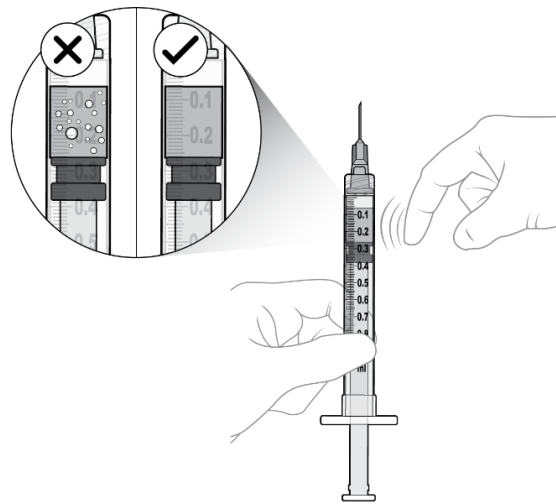


Figure N

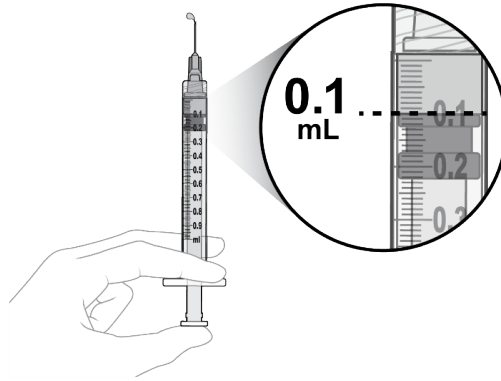
**Step 11: Prepare Appropriate Dose**

**Slowly** depress the plunger to:

- Expel the air from the syringe
- Align the rubber stopper tip to the **0.1 mL** dose mark.

The syringe is now ready for the injection (see [Figure O](#)).

Make sure to give the injection immediately after preparing the dose.



**Figure O**

**2.4 Injection Procedure**

Only 0.1 mL (2 mg) should be administered to deliver a single dose. Any excess volume should be disposed.

Prior to the intravitreal injection, patients should be monitored for elevated intraocular pressure (IOP) using tonometry [see [Warnings and Precautions \(5.3\)](#)]. If necessary, ocular hypotensive medication can be given to lower the IOP.

The intravitreal injection procedure must be carried out under controlled aseptic conditions, which includes the use of surgical hand disinfection, sterile gloves, a sterile drape, and a sterile eyelid speculum (or equivalent). Adequate anesthesia and a broad-spectrum topical microbicide should be given prior to the injection.

Inject slowly until the rubber stopper reaches the end of the syringe to deliver the volume of 0.1 mL. Confirm delivery of the full dose by checking that the rubber stopper has reached the end of the syringe barrel.

Immediately following the intravitreal injection, patients should be monitored for elevation in intraocular pressure (IOP). Appropriate monitoring may consist of a check for perfusion of the optic nerve head or tonometry.

Following intravitreal injection, patients should be instructed to report any symptoms suggestive of endophthalmitis (e.g., eye pain, redness of the eye, photophobia, blurring of vision) without delay [see [Patient Counseling Information \(17\)](#)].

Each vial and syringe should only be used for the treatment of a single eye. If the contralateral eye requires treatment, a new vial and syringe should be used and the sterile field, syringe, gloves, drapes, eyelid speculum, filter needle, and injection needle should be changed before IZERVAY is administered to the other eye. Repeat the same procedure steps as above.

Any unused medicinal product or waste material should be disposed of in accordance with local regulations.

### 3 DOSAGE FORMS AND STRENGTHS

Intravitreal solution: 20 mg/mL clear to slightly opalescent, colorless to slightly yellow solution in a single-dose vial.

### 4 CONTRAINDICATIONS

#### 4.1 Ocular or Periocular Infections

IZERVAY is contraindicated in patients with ocular or periocular infections.

#### 4.2 Active Intraocular Inflammation

IZERVAY is contraindicated in patients with active intraocular inflammation.

### 5 WARNINGS AND PRECAUTIONS

#### 5.1 Endophthalmitis and Retinal Detachments

Intravitreal injections may be associated with endophthalmitis and retinal detachments [see [Adverse Reactions \(6.1\)](#)]. Proper aseptic injection techniques must always be used when administering IZERVAY in order to minimize the risk of endophthalmitis [see [Dosage and Administration \(2.4\)](#)]. Patients should be instructed to report any symptoms suggestive of endophthalmitis or retinal detachment without delay, to permit prompt and appropriate management [see [Patient Counseling Information \(17\)](#)].

#### 5.2 Neovascular AMD

In the GATHER1 and GATHER2 clinical trials, use of IZERVAY was associated with increased rates of neovascular (wet) AMD or choroidal neovascularization (7% when administered monthly and 4% in the sham group) by Month 12. Over 24 months, the rate of neovascular (wet) AMD or choroidal neovascularization in the GATHER2 trial was 12% in the IZERVAY group and 9% in the sham group. Patients receiving IZERVAY should be monitored for signs of neovascular AMD.

#### 5.3 Increase in Intraocular Pressure

Transient increases in intraocular pressure (IOP) have been observed after an intravitreal injection, including with IZERVAY [see [Adverse Reactions \(6.1\)](#)]. Perfusion of the optic nerve head should be monitored following the injection and managed as needed [see [Dosage and Administration \(2.4\)](#)].

### 6 ADVERSE REACTIONS

The following potentially serious adverse reactions are described elsewhere in the labeling:

- Ocular and periocular infections [see [Contraindications \(4.1\)](#)]
- Active intraocular inflammation [see [Contraindications \(4.2\)](#)]
- Endophthalmitis and retinal detachments [see [Warnings and Precautions \(5.1\)](#)]
- Neovascular AMD [see [Warnings and Precautions \(5.2\)](#)]
- Increase in intraocular pressure [see [Warnings and Precautions \(5.3\)](#)]

## 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 the clinical trials of another drug and may not reflect the rates observed in practice.

The safety of avacincaptad pegol was evaluated in 733 patients with AMD in two sham-controlled studies (GATHER1 and GATHER2). Of these patients, 292 were treated with intravitreal IZERVAY 2 mg (0.1 mL of 20 mg/mL solution) [see *Clinical Studies (14)*]. Three hundred thirty-two (332) patients were assigned to sham.

Adverse reactions reported in  $\geq 2\%$  of patients who received treatment with IZERVAY pooled across GATHER1 and GATHER2, are listed below in Table 1.

**Table 1: Common Ocular Adverse Reactions ( $\geq 2\%$ ) and greater than Sham in Study Eye**

| Adverse Drug Reactions       | IZERVAY<br>N=292 | Sham<br>N=332 |
|------------------------------|------------------|---------------|
| Conjunctival hemorrhage      | 13%              | 9%            |
| Increased IOP                | 9%               | 1%            |
| Blurred vision <sup>1</sup>  | 8%               | 5%            |
| Choroidal neovascularization | 7%               | 4%            |
| Eye pain                     | 4%               | 3%            |
| Vitreous floaters            | 2%               | <1%           |
| Blepharitis                  | 2%               | <1%           |

1. Blurred vision includes visual impairment, vision blurred, visual acuity reduced, visual acuity reduced transiently

## 8 USE IN SPECIFIC POPULATIONS

### 8.1 Pregnancy

#### Risk Summary

There are no adequate and well-controlled studies of IZERVAY administration in pregnant women. The use of IZERVAY may be considered following an assessment of the risks and benefits.

Administration of avacincaptad pegol to pregnant rats and rabbits throughout the period of organogenesis resulted in no evidence of adverse effects to the fetus or pregnant female at intravenous (IV) doses 5.5 times and 3.4 times the human exposure, respectively, based on Area Under the Curve (AUC), following a single 2 mg intravitreal (IVT) dose (see *Data*).

In the U.S. general population, the estimated background risks of major birth defects and miscarriage in clinically recognized pregnancies is 2-4% and 15%-20%, respectively.

#### Data

##### *Animal Data*

An embryo fetal developmental toxicity study was conducted with pregnant rats. Pregnant rats received daily IV injections of avacincaptad pegol from day 6 to day 17 of gestation at 0.1, 0.4, 1.2 mg/kg/day. No maternal or embryofetal adverse effects were observed at any dose evaluated. An increase in the incidence of a non-adverse skeletal variation, described as short thoracolumbar (ossification site without distal cartilage) supernumerary ribs, was observed at all doses evaluated. The clinical relevance of this

finding is unknown. Plasma exposures at the high dose were 5.5 times the human AUC of 999 ng•day/mL (23976 ng•hr/mL) following a single 2 mg IVT dose.

An embryo fetal developmental toxicity study was conducted with pregnant rabbits. Pregnant rabbits received daily IV injections of avacincaptad pegol from day 7 to day 19 of gestation at 0.12, 0.4, 1.2 mg/kg/day. No maternal or embryofetal adverse effects were observed at any dose evaluated. Plasma exposure in pregnant rabbits at the highest dose of 1.2 mg/kg/day was 3.4 times the human AUC of 999 ng•day/mL (23976 ng•hr/mL) following a single 2 mg IVT dose.

## 8.2 Lactation

### Risk Summary

There is no information regarding the presence of avacincaptad pegol in human milk, the effects of the drug on the breastfed infant, or the effects of avacincaptad pegol on milk production. Many drugs are transferred in human milk with the potential for absorption and adverse reactions in the breastfed child.

The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for IZERVAY, and any potential adverse effects on the breastfed infant from IZERVAY.

## 8.4 Pediatric Use

Safety and effectiveness of IZERVAY in pediatric patients have not been established.

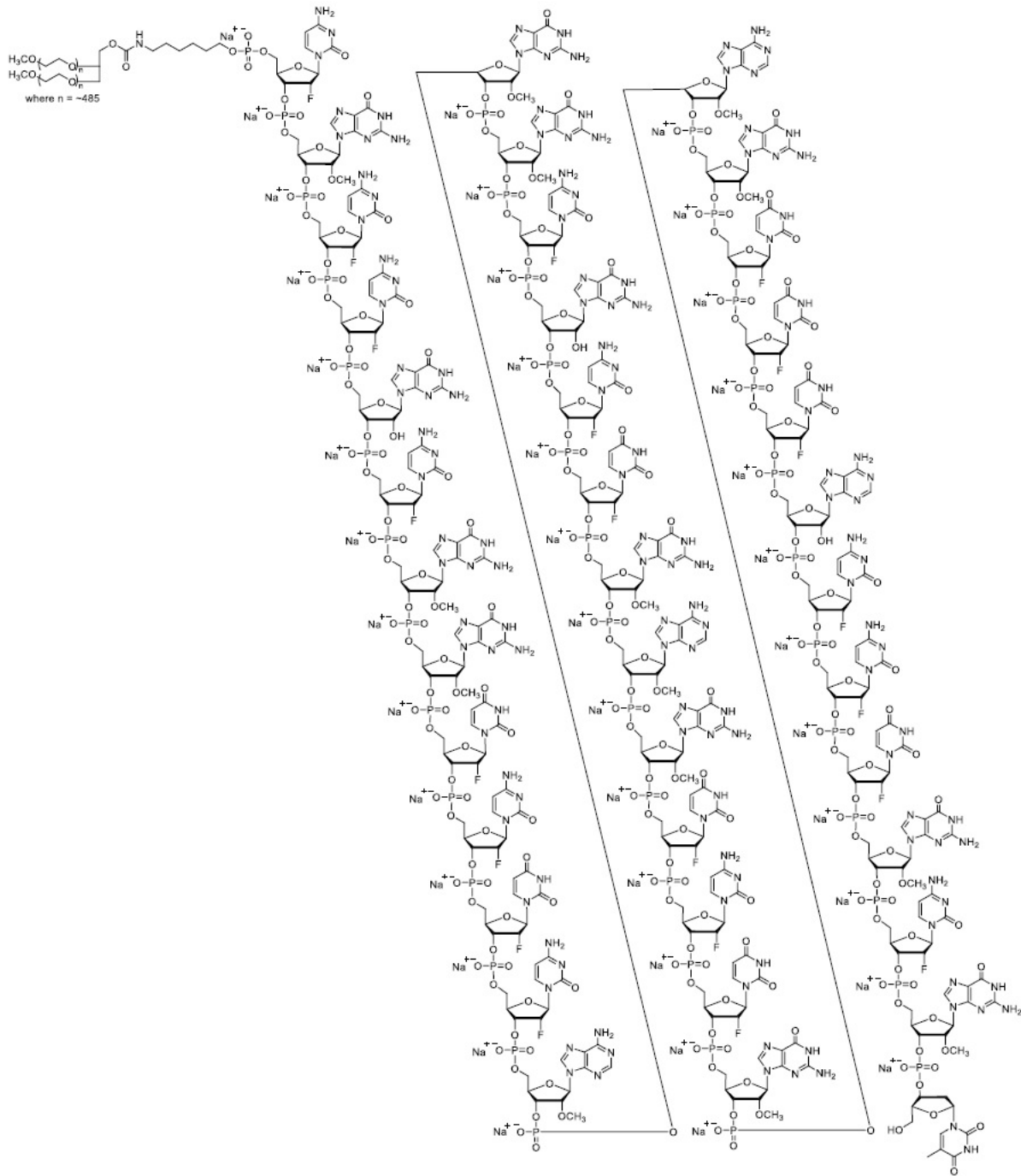
## 8.5 Geriatric Use

Of the total number of patients who received IZERVAY in the two clinical trials, 90% (263/292) were  $\geq 65$  years and 61% (178/292) were  $\geq 75$  years of age. No significant differences in efficacy or safety of avacincaptad pegol were seen with increasing age in these studies. No dose adjustment is required in patients 65 years and above.

## 11 DESCRIPTION

IZERVAY contains avacincaptad pegol sodium, a complement C5 inhibitor. Avacincaptad pegol is a ribonucleic acid (RNA) aptamer, covalently bound to an approximately 43-kiloDalton (kDa) branched polyethylene glycol (PEG) molecule.

The molecular formula of avacincaptad pegol (free acid form) is  $C_{395}H_{492}N_{142}O_{262}P_{39}F_{21}((CH_2)_2O)_n$  where  $n \sim 970$  and the molecular weight is approximately 56 kDa. The structure of avacincaptad pegol sodium is presented below.



IZERVAY (avacincaptad pegol intravitreal solution) is a sterile, clear to slightly opalescent, colorless to slightly yellowish solution in a single-dose glass vial for intravitreal administration. Each single-dose vial is designed to deliver 0.1 mL of solution containing 2 mg avacincaptad pegol (oligonucleotide basis), 0.198 mg dibasic sodium phosphate heptahydrate, 0.0256 mg monobasic sodium phosphate monohydrate, and 0.83 mg sodium chloride. IZERVAY is formulated in Water for Injection, with a target pH of 7.3. IZERVAY does not contain an anti-microbial preservative.

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

Avacincaptad pegol is an RNA aptamer, a PEGylated oligonucleotide that binds to and inhibits complement protein C5. By inhibiting C5, avacincaptad pegol may prevent its cleavage to C5a and C5b thus decreasing membrane attack complex (MAC) formation.

### 12.2 Pharmacodynamics

Increased GA area growth is reflective of loss of photoreceptors and AMD disease progression. Reductions in the rate of GA growth were observed across avacincaptad pegol treatment groups in studies GATHER1 and GATHER2.

### 12.3 Pharmacokinetics

#### *Absorption/Distribution*

Following monthly dosing of avacincaptad pegol, at steady-state maximum avacincaptad pegol plasma concentrations ( $C_{max}$ ) are estimated to occur approximately 3 days post-dose and geometric mean (GeoCV%) free avacincaptad pegol plasma  $C_{max}$  is estimated to be 347 ng/mL (59.0%) in GA secondary to AMD patients. The  $AUC_{0-\tau}$  days following monthly dosing is 4726 day·ng/mL, where tau is 28 days.

In humans, avacincaptad pegol plasma concentrations are predicted to be approximately 1,400-fold lower than vitreal concentrations.

#### *Metabolism/Elimination*

Metabolism and elimination of avacincaptad pegol has not been fully characterized. Avacincaptad pegol is expected to be catabolized by endonucleases and exonucleases to oligonucleotides of shorter lengths. The estimated apparent systemic half-life of avacincaptad pegol is approximately 8 days.

#### Specific Populations

Following repeat monthly intravitreal dose administration of 2 mg avacincaptad pegol, no differences in the systemic pharmacokinetics of avacincaptad pegol were observed based on age, gender, and body weight. No special dosage modification is required for any of the populations that have been studied (e.g., age, gender, and body weight). The effect of severe renal impairment or any degree of hepatic impairment on the pharmacokinetics of avacincaptad pegol is unknown. As significant increases in plasma avacincaptad pegol exposures are not expected with intravitreal route of administration, no dosage adjustment is needed based on renal or hepatic impairment status.

## 13 NONCLINICAL TOXICOLOGY

### 13.1 Carcinogenesis, Mutagenesis, and Impairment of Fertility

#### Carcinogenesis

No studies have been conducted on the carcinogenic potential of avacincaptad pegol.

#### Mutagenesis

Avacincaptad pegol was negative in *in vitro* (bacterial reverse mutation assay, chromosomal aberration in mammalian cells) and *in vivo* (mouse bone marrow micronucleus) assays.

### Impairment of Fertility

Studies to evaluate the effect of avacincaptad pegol on male or female fertility in animals have not been performed.

## **14 CLINICAL STUDIES**

The safety and efficacy of IZERVAY were demonstrated in two randomized, multi-center, double-masked, sham-controlled, 18- and 24-month studies (GATHER1-NCT02686658 and GATHER2-NCT04435366, respectively) in patients with GA due to AMD. Patient ages ranged from 51 to 97 years with a mean of 77 years. In total, 292 patients were treated with avacincaptad pegol 2 mg, and 332 patients received sham.

In GATHER1, patients were treated with either IZERVAY or sham monthly for 18 months. In the primary analysis for GATHER1, the mean rate of GA growth (slope) from baseline to Month 12, measured by Fundus Autofluorescence (FAF), was evaluated at 3 time points: baseline, Month 6, and Month 12. Over a 12-month period, there was a statistically significant reduction of the rate of GA growth (0.10 mm/year;  $p < 0.01$  with square root transformed data) in patients treated with IZERVAY compared to sham. The observed results are shown in Table 2 and Figure 1 below.

In the 24-month GATHER2 study, patients were treated with IZERVAY or sham monthly for the first 12 months. Patients receiving monthly IZERVAY were re-randomized at Month 12 to receive either IZERVAY monthly (EM) or every other month (EOM). Patients treated with sham in the first 12 months continued monthly sham treatment. At any time during the GATHER2 study, patients that developed choroidal neovascularization were concomitantly treated with anti-VEGF therapy.

In GATHER2 analysis, the mean rate of GA growth (slope) measured by FAF was evaluated at 5 time points: baseline, Month 6, Month 12, Month 18, and Month 24. Over a 12-month period, there was a statistically significant reduction of the rate of GA growth (0.05 mm/year;  $p < 0.01$  with square root transformed data) in patients treated with IZERVAY EM compared to sham. The annualized rate of GA growth over 24 months in the monthly arm was 2.23 mm<sup>2</sup>/year, resulting in treatment difference versus sham of 0.36 mm<sup>2</sup>/year ( $p = 0.0165$ ). In the treatment arm that included patients who received IZERVAY EM treatment for one year and EOM treatment for the second year, the annualized rate of GA growth was 2.10 mm<sup>2</sup>/year. The observed results for EM dosing are shown in Table 2 and Figure 2 below.

In both studies, treatment effects in all pre-specified subgroups (e.g., age, gender, baseline GA disc area) were consistent with the results in the overall population.

**Table 2: Efficacy Outcomes of IZERVAY Monthly Dosing Compared to Sham in GATHER1 and GATHER2**

| Efficacy Endpoint<br>(MMRM Analysis)                                 | Month 12         |               |                  |               | Month 24                     |               |
|--|------------------|---------------|------------------|---------------|------------------------------|---------------|
|  | GATHER1          |               | GATHER2          |               | GATHER2                      |               |
|  | IZERVAY<br>N=67  | Sham<br>N=110 | IZERVAY<br>N=225 | Sham<br>N=222 | IZERVAY <sup>c</sup><br>N=96 | Sham<br>N=203 |
| GA Rate of Growth (mm <sup>2</sup> /year)<br>(observed) <sup>a</sup> | 1.22             | 1.89          | 1.75             | 2.12          | 2.23                         | 2.59          |
| Difference (95% CI) (mm <sup>2</sup> /year)                          | 0.67 (0.21-1.13) |               | 0.38 (0.12-0.63) |               | 0.36 (0.07 – 0.66)           |               |
| Difference % <sup>b</sup>  | 35%              |               | 18%              |               | 14%                          |               |
| p value  | <0.01            |               | <0.01            |               | 0.0165                       |               |

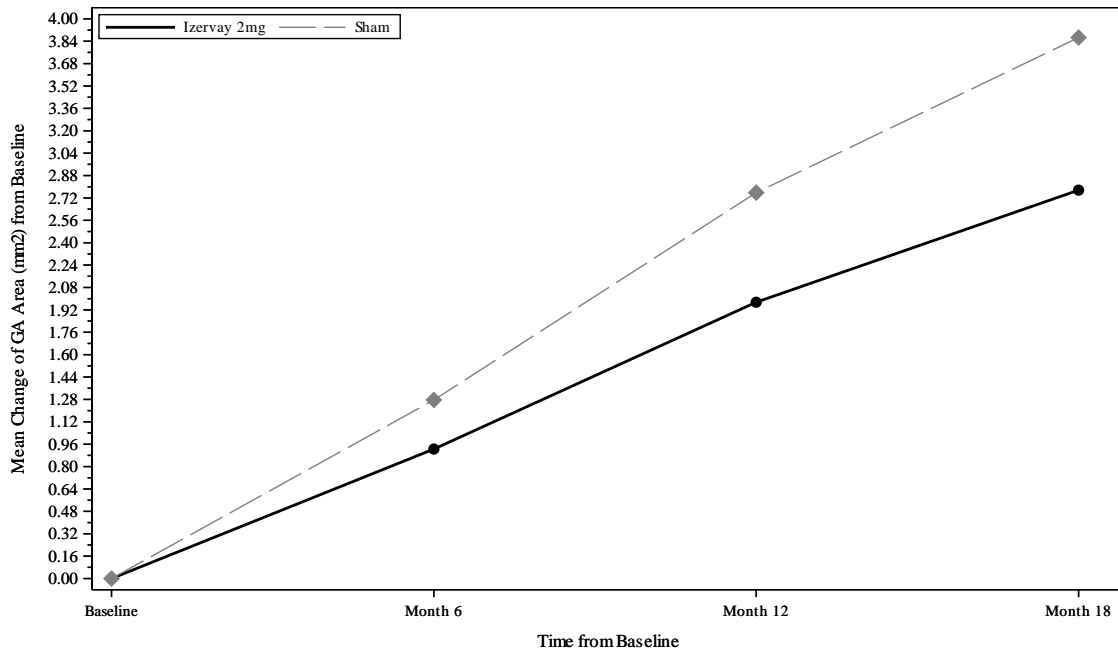
<sup>a</sup> = non-transformed GA growth slope analysis

<sup>b</sup> = % difference is calculated by 100\*(difference)/(least squares mean from Sham)

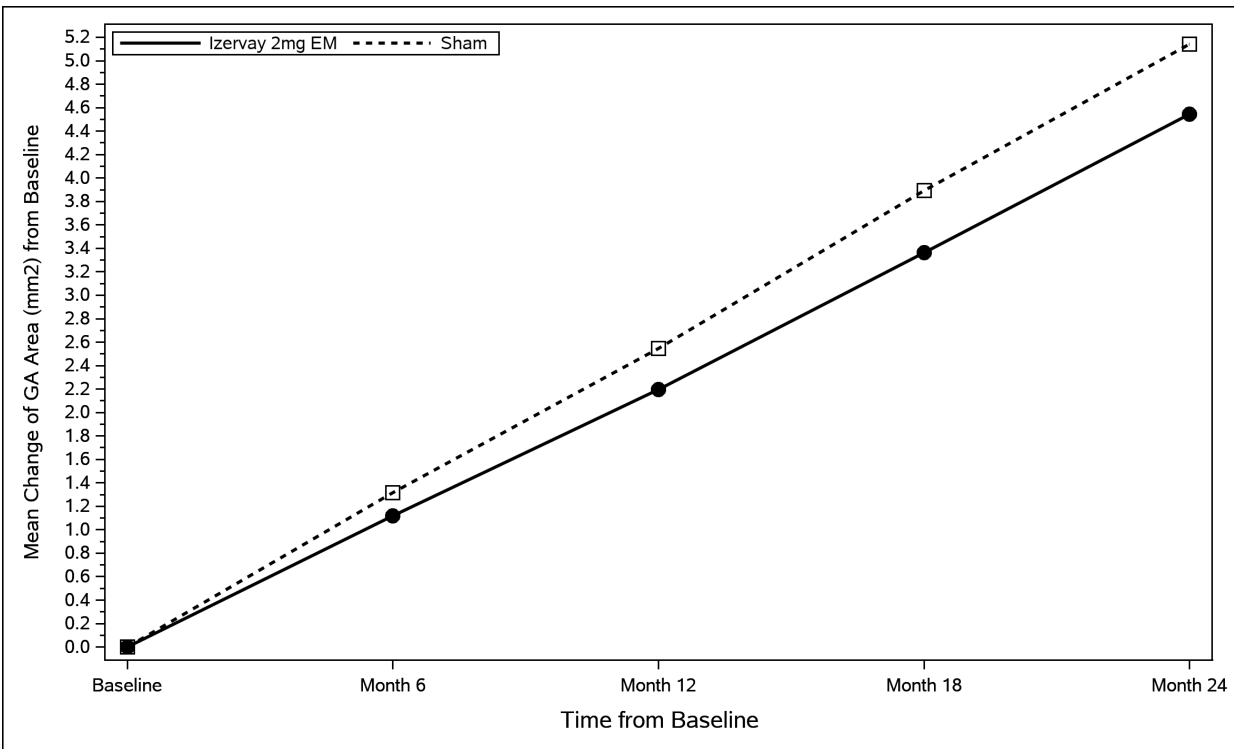
<sup>c</sup> = IZERVAY EM (IZERVAY monthly in both year 1 and year 2)

MMRM= Mixed Models for Repeated Measures

**Figure 1: Mean Change in GA Area (mm<sup>2</sup>) From Baseline in GATHER1 (Observed data)**



**Figure 2: Mean Change in GA Area (mm<sup>2</sup>) From Baseline in GATHER2 (Observed data)**



EM: monthly

## 16 HOW SUPPLIED/STORAGE AND HANDLING

### 16.1 How Supplied

IZERVAY (avacincaptad pegol intravitreal solution) is supplied as a sterile, clear to slightly opalescent, colorless to slightly yellowish 20 mg/mL solution in a single-dose glass vial. Each glass vial contains an overfill amount to allow administration of a single 0.1 mL dose of solution containing 2 mg of avacincaptad pegol (oligonucleotide basis). Each IZERVAY carton (NDC 82829-002-01) contains one glass vial, one sterile 5-micron transfer filter needle (18-gauge x 1½ inch, 1.2 mm x 40 mm), and one sterile 1 mL Luer lock syringe.

### 16.2 Storage and Handling

Store IZERVAY in the refrigerator between 2°C to 8°C (36°F to 46°F). Do not freeze. Do not shake. Keep the vial in the original carton to protect from light.

Prior to use, the unopened glass vial of IZERVAY may be kept at room temperature, 20°C to 25°C (68°F to 77°F), for up to 24 hours. Ensure that the injection is given immediately after preparation of the dose.

## 17 PATIENT COUNSELING INFORMATION

Advise patients that following IZERVAY administration, patients are at risk of developing neovascular AMD, endophthalmitis, elevated intraocular pressure and retinal detachments. If the eye becomes red, sensitive to light, painful, or if a patient develops a change in vision, instruct the patient to seek immediate care from an ophthalmologist [see *Warnings and Precautions (5.1, 5.2)*].

Patients may experience temporary visual disturbances and blurring after an intravitreal injection with IZERVAY and the associated eye examinations [see *Adverse Reactions (6.1)*]. Advise patients not to drive or use machinery until visual function has recovered sufficiently.

IZERVAY™ (avacincaptad pegol intravitreal solution)

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