

The logo for Ocular Therapeutix is centered within a dark blue circle. The word "Ocular" is written in a white, elegant serif font, while "Therapeutix" is in a smaller, orange, sans-serif font with a registered trademark symbol. Below the logo, the tagline "Retina experience redefined." is written in a white, sans-serif font. The background of the slide features a vibrant, radial pattern of purple and blue light streaks emanating from the center.

*Ocular*  
Therapeutix®

Retina experience  
redefined.

# **Ocular Therapeutix Corporate Overview**

43<sup>rd</sup> Annual J.P. Morgan Healthcare Conference | January 2025

# Forward Looking Statements and Disclaimers

Any statements in this presentation about future expectations, plans, and prospects for the Company, including the development and regulatory status of the Company's product candidates, including the design of, and the timing of the enrollment of the Company's SOL-1 and SOL-R Phase 3 clinical trials of AXPAXLI™ (also called OTX-TKI) for the treatment of wet AMD; the Company's plans to advance the development of AXPAXLI and its other product candidates, including in additional indications such as NPDR; the size of potential markets for the Company's product candidates; the potential utility or adoption, if approved, of any of the Company's product candidates; the sufficiency of the Company's cash resources; and other statements containing the words "anticipate", "believe", "estimate", "expect", "intend", "designed", "goal", "may", "might", "plan", "predict", "project", "target", "potential", "will", "would", "could", "should", "continue", and similar expressions, constitute forward-looking statements within the meaning of The Private Securities Litigation Reform Act of 1995. Actual results may differ materially from those indicated by such forward-looking statements as a result of various important factors. Such forward-looking statements involve substantial risks and uncertainties that could cause the Company's preclinical and clinical development programs, future results, performance, or achievements to differ significantly from those expressed or implied by the forward-looking statements. Such risks and uncertainties include, among others, the timing and costs involved in commercializing DEXTENZA® or any product or product candidate that receives regulatory approval; the ability to retain regulatory approval of DEXTENZA or any product or product candidate that receives regulatory approval; the initiation, design, timing, conduct, and outcomes of clinical trials, including the SOL-1 trial, the SOL-R trial, and the Company's other ongoing clinical trials; the risk that the U.S. Food and Drug Administration, or FDA, will not agree with the Company's interpretation of the written agreement under the SPA for the SOL-1 trial and the FDA's other written guidance for the SOL clinical program; the risk that even though the FDA has agreed with the overall design of the SOL clinical program, the FDA may not agree that protocol and statistical analysis plan or the data generated by the SOL clinical program supports potential marketing approval, even if both SOL-1 and SOL-R are successful and meet their primary endpoints; the risk that the Company and the FDA may not agree on the registrational pathway for AXPAXLI for NPDR or any other indication; uncertainty as to whether the data from earlier clinical trials will be predictive of the data of later clinical trials, particularly later clinical trials that have a different design or utilize a different formulation than the earlier trials, whether preliminary or interim data from a clinical trial will be predictive of final data from such trial, or whether data from a clinical trial assessing a product candidate for one indication will be predictive of results in other indications; the timing of availability of data from clinical trials and expectations regarding the timing and sufficiency of regulatory submissions and approvals; the Company's scientific approach and general development progress; the availability or commercial potential of the Company's product candidates; uncertainties inherent in estimating the Company's cash runway, future expenses, and other financial results, including its ability to fund future operations, including clinical trials; the Company's existing indebtedness and the ability of the Company's creditors to accelerate the maturity of such indebtedness upon the occurrence of certain events of default; the Company's ability to enter into strategic alliances or generate additional funding on a timely basis, on favorable terms, or at all; and other factors discussed in the "Risk Factors" section contained in the Company's quarterly and annual reports on file with the Securities and Exchange Commission. In addition, the forward-looking statements included in this presentation represent the Company's views as of the date of this presentation. The Company anticipates that subsequent events and developments will cause the Company's views to change. However, while the Company may elect to update these forward-looking statements at some point in the future, the Company specifically disclaims any obligation to do so, whether as a result of new information, future events or otherwise, except as required by law. These forward-looking statements should not be relied upon as representing the Company's views as of any date subsequent to the date of this presentation.

This presentation discusses investigational product candidates in development. Their efficacy and safety profiles have not been established, and they have not been approved for marketing by the FDA.

This presentation contains references to the Company's trademarks and trade names and to those belonging to other entities. Solely for convenience, trademarks and trade names referred to in this presentation may appear without the ® or ™ symbols, but such references are not intended to indicate, in any way, that the Company will not assert, to the fullest extent under applicable law, its rights or the rights of the applicable licensor to these trademarks and trade names. The Company does not intend its use or display of other companies' trademarks or trade names to imply a relationship with, or endorsement or sponsorship of it by, any other companies. AXPAXLI is a trade name which the Company uses to refer to its OTX-TKI product candidate. The FDA has not approved AXPAXLI or OTX-TKI as product names.





# Retina Experience Redefined

Our retina experience is redefining your retina experience



Redefining  
**treatment**



Redefining  
**development**



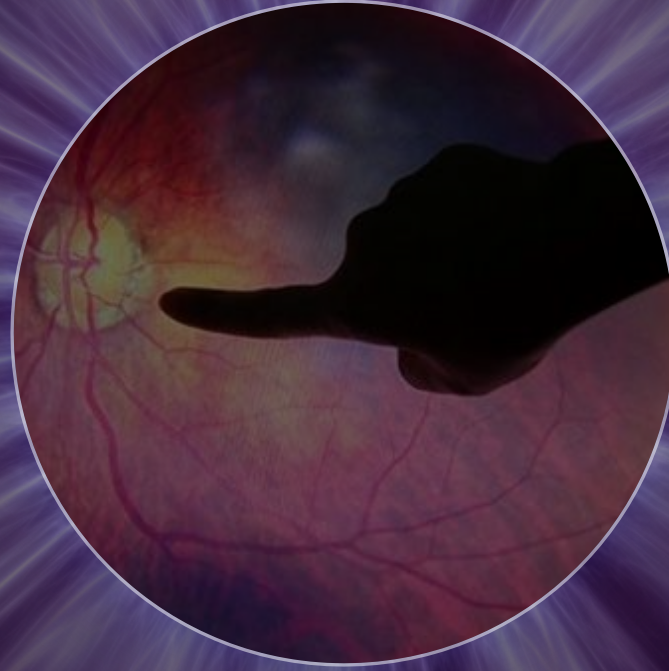
Redefining  
**outcomes**

# Retina Experience Redefined

Our retina experience is redefining your retina experience



Redefining  
**treatment**



Redefining  
**development**



Redefining  
**outcomes**

# Wet AMD: Significant Unmet Need

## 1.6M

people with wet AMD in U.S.<sup>1</sup>



## Poor long-term visual outcomes

### INJECTION BURDEN

**90% of patients require injection every 1-3 months<sup>2</sup>**

up to  
**12 injections/yr** for patients



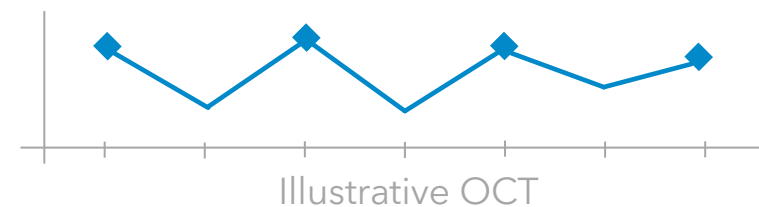
up to  
**12 PTO days/yr** for caregivers



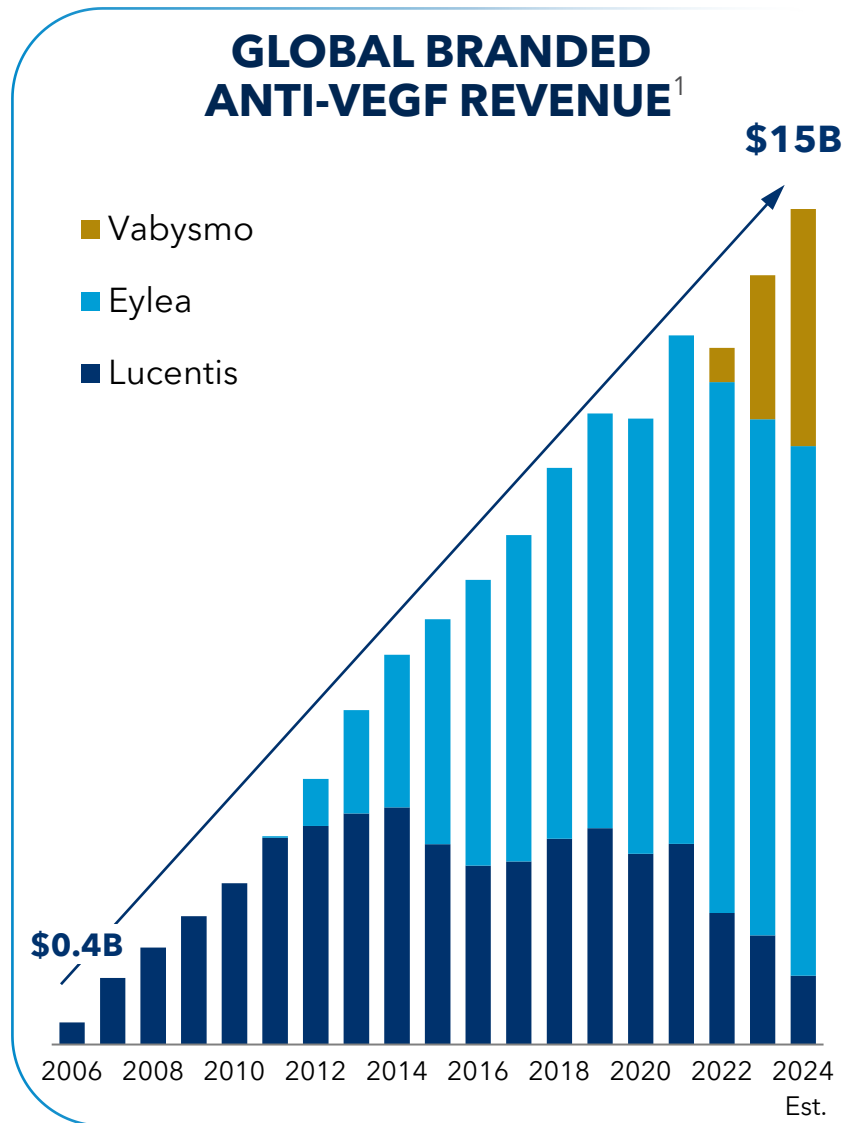
**40% discontinue by one year<sup>3</sup>**

### FIBROSIS & ATROPHY

Pulsatile dosing leads to  
fibrosis and atrophy<sup>4,5</sup>



# Incremental Durability Improvements Deliver Significant Market Opportunity



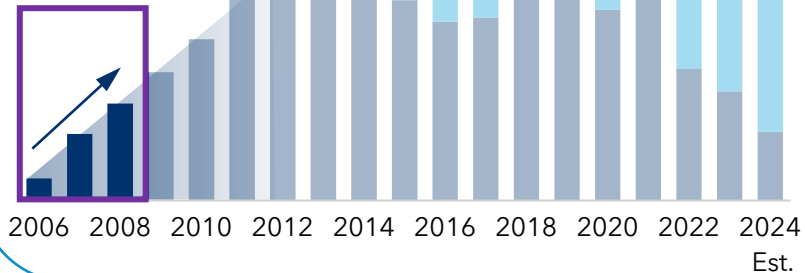


# Incremental Durability Improvements Deliver Significant Market Opportunity

## GLOBAL BRANDED ANTI-VEGF REVENUE<sup>1</sup>

\$15B

- Vabysmo
- Eylea
- Lucentis



## LUCENTIS<sup>®</sup>

30 Days<sup>2</sup>

LUCENTIS

\$1.8B

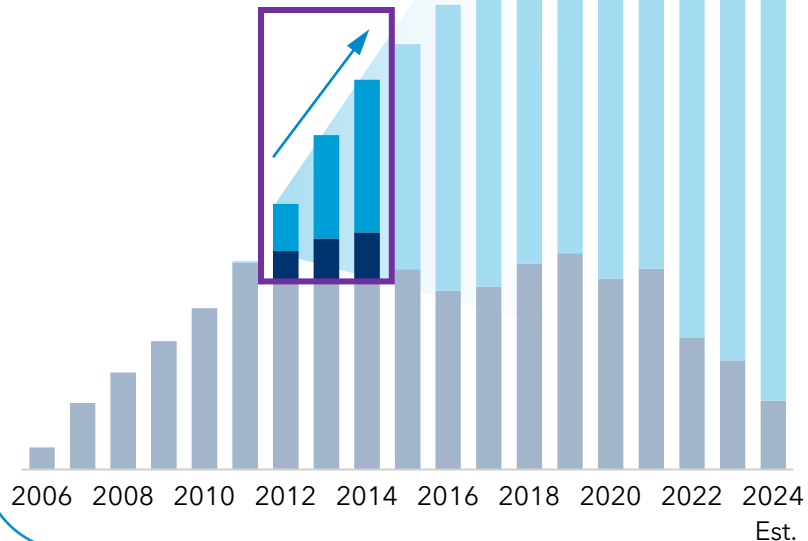


# Incremental Durability Improvements Deliver Significant Market Opportunity

## GLOBAL BRANDED ANTI-VEGF REVENUE<sup>1</sup>

\$15B

- Vabysmo
- Eylea
- Lucentis



## LUCENTIS<sup>®</sup>

30 Days<sup>2</sup>

LUCENTIS

\$1.8B

2006 2007 2008

## EYLEA<sup>®</sup>

+2 weeks

44 Days<sup>3</sup>

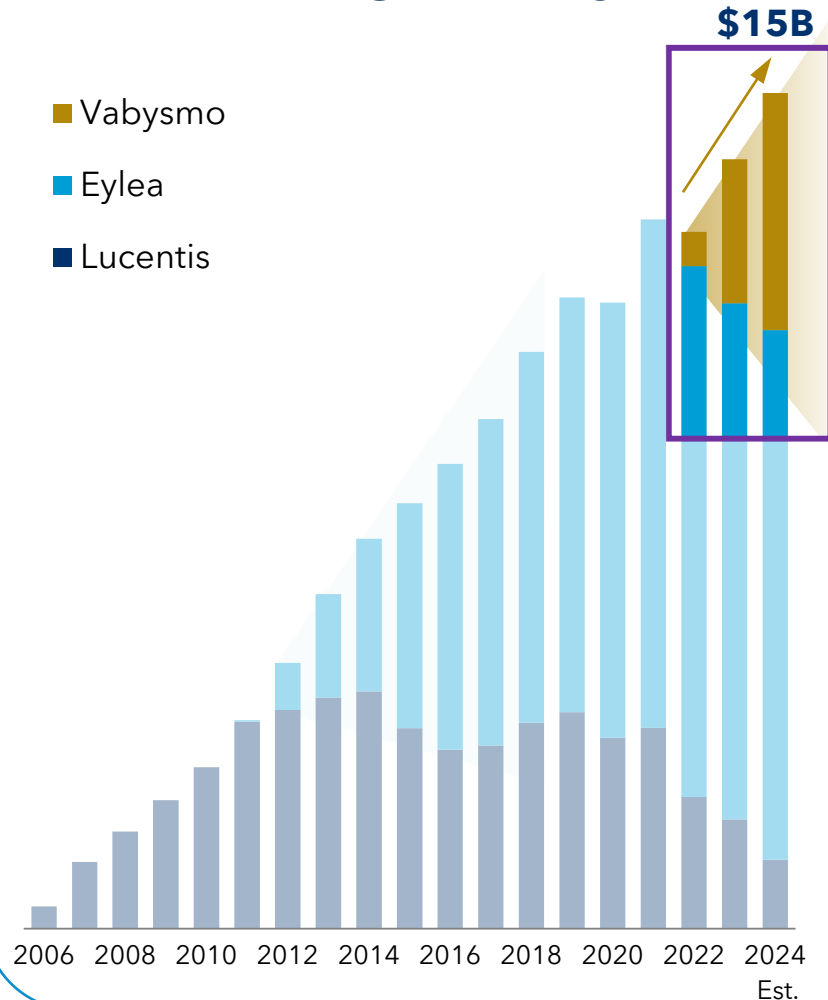
LUCENTIS v EYLEA

\$2.8B

2012 2013 2014

# Incremental Durability Improvements Deliver Significant Market Opportunity

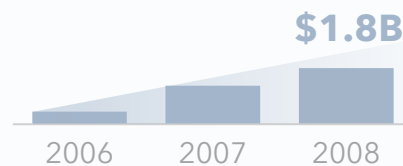
## GLOBAL BRANDED ANTI-VEGF REVENUE<sup>1</sup>



## LUCENTIS<sup>®</sup>

30 Days<sup>2</sup>

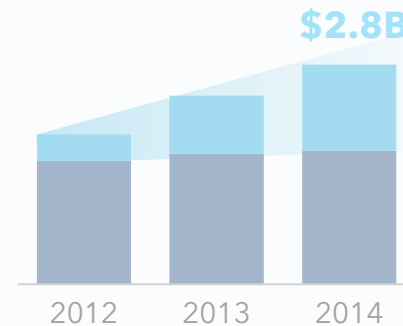
LUCENTIS



## EYLEA<sup>®</sup>

+2 weeks  
44 Days<sup>3</sup>

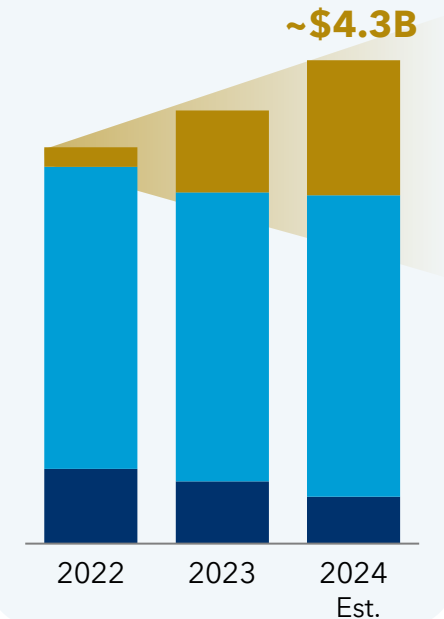
LUCENTIS v EYLEA



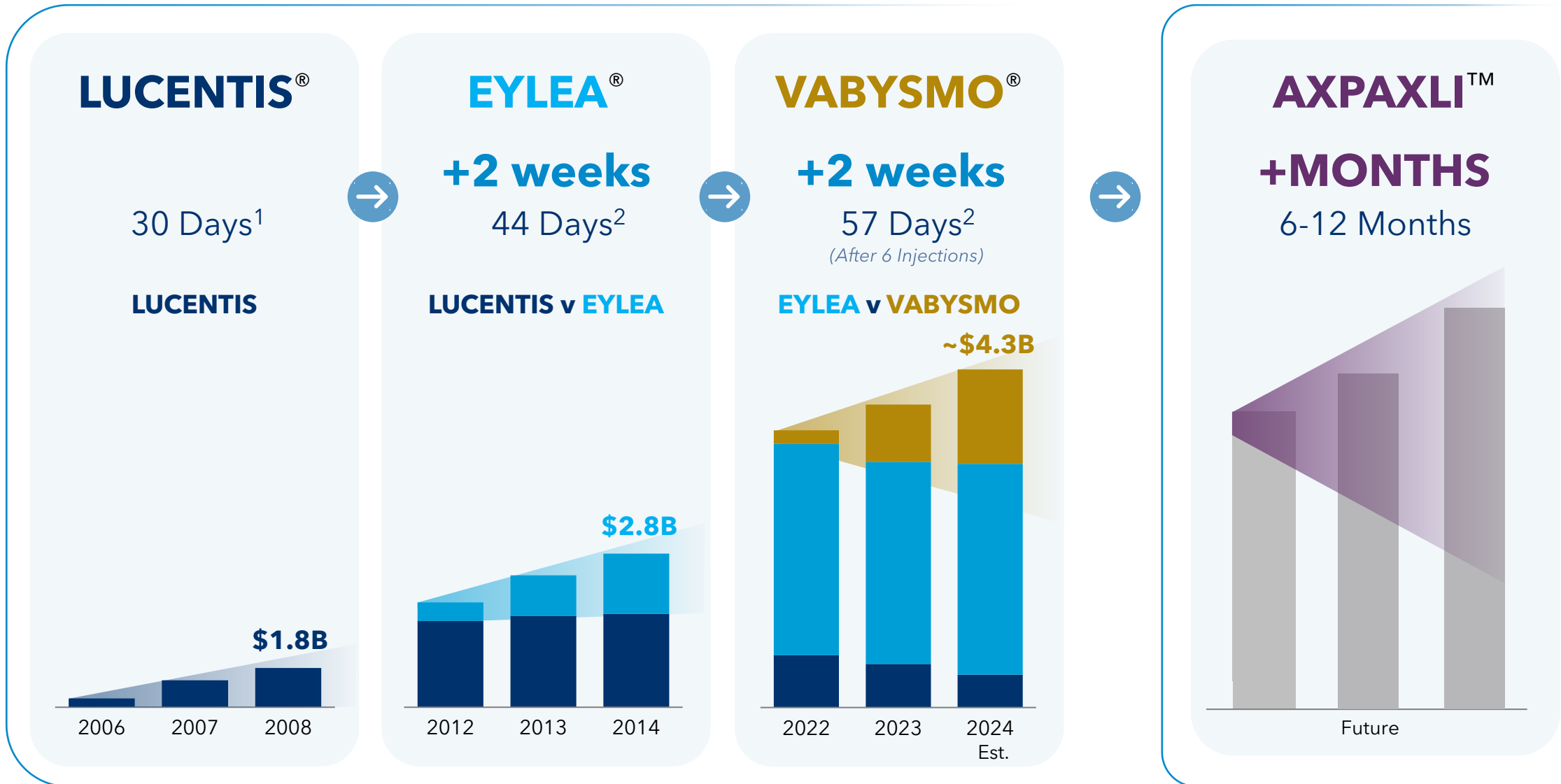
## VABYSMO<sup>®</sup>

+2 weeks  
57 Days<sup>3</sup>  
(After 6 Injections)

EYLEA v VABYSMO



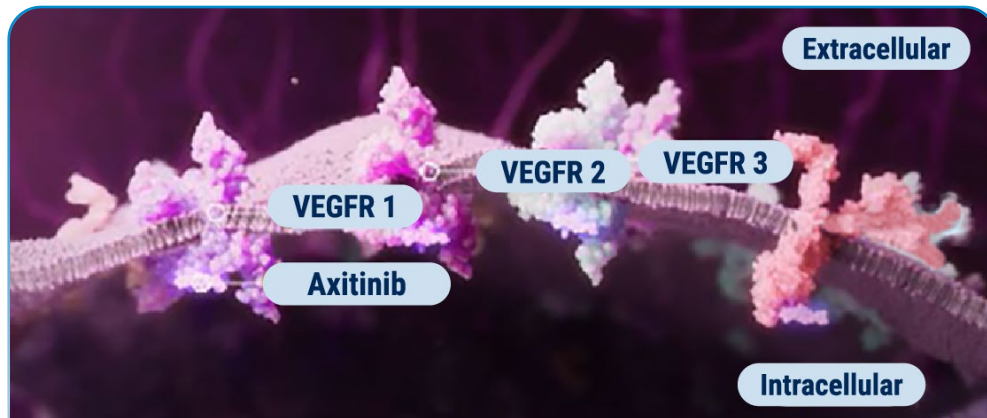
# Incremental Durability Improvements Deliver Significant Market Opportunity



# AXPAXLI is Designed to Redefine the Market

## AXITINIB

Multi-target Tyrosine Kinase Inhibitor (TKI)

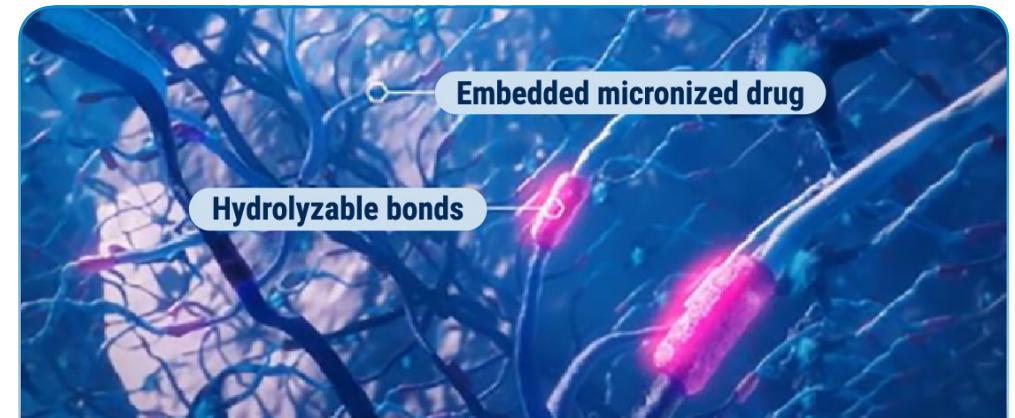


Highly selective pan VEGF inhibitor<sup>1</sup>  
Most potent TKI<sup>2</sup>



## ELUTYX™ TECHNOLOGY

Bioresorbable, Sustained Drug Delivery



Proprietary hydrogel  
Versatile, biocompatible, tunable platform<sup>3</sup>

# AXPAXLI

Single injection,  
single hydrogel<sup>3</sup>

Continuous and consistent  
delivery up to 12 months<sup>3</sup>

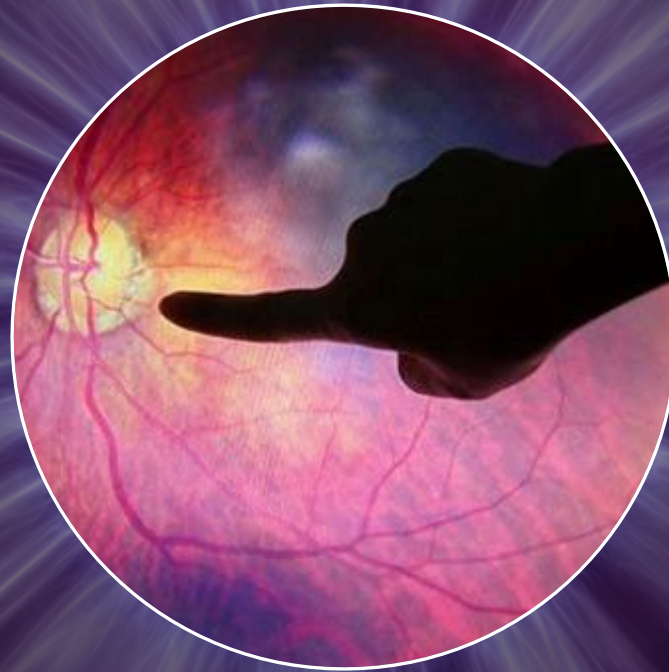
Complete and predictable  
bioresorption<sup>3</sup>

# Retina Experience Redefined

Our retina experience is redefining your retina experience



Redefining  
**treatment**



Redefining  
**development**



Redefining  
**outcomes**

# AXPAXLI Wet AMD Clinical Program Summary

Proof of Concept

## PHASE 1

**Demonstrated  
Activity and Durability**

U.S.<sup>1</sup>

100% rescue free  
per protocol at 6 months;  
80% at 10 months

Australia<sup>2</sup>

Monotherapy activity  
in treatment-naïve wAMD

Phase 3 Registrational Trials

## SOL-1

**Designed to Show  
Superiority**

Single injection AXPAXLI

## SOL-R

**Designed to Show  
Non-Inferiority to SoC**

Repeat dosing

Complementary studies designed to show  
durability, repeatability, and flexibility

# Redefining Development

## De-risking Registrational Program



AXPAXLI Registrational  
Program in Wet AMD

### **SOL-1 + SOL-R**

*De-risking Complementary Trials*

- ✓ Compelling Phase 1 data
- ✓ De-risking Phase 3 designs
- ✓ De-risking regulatory path



# SOL-1 Design: AXPAXLI First Registration Study in Wet AMD



**Superiority Study** Comparing a Single AXPAXLI Dose to a Single Aflibercept (2 mg) Dose

## DESIGN

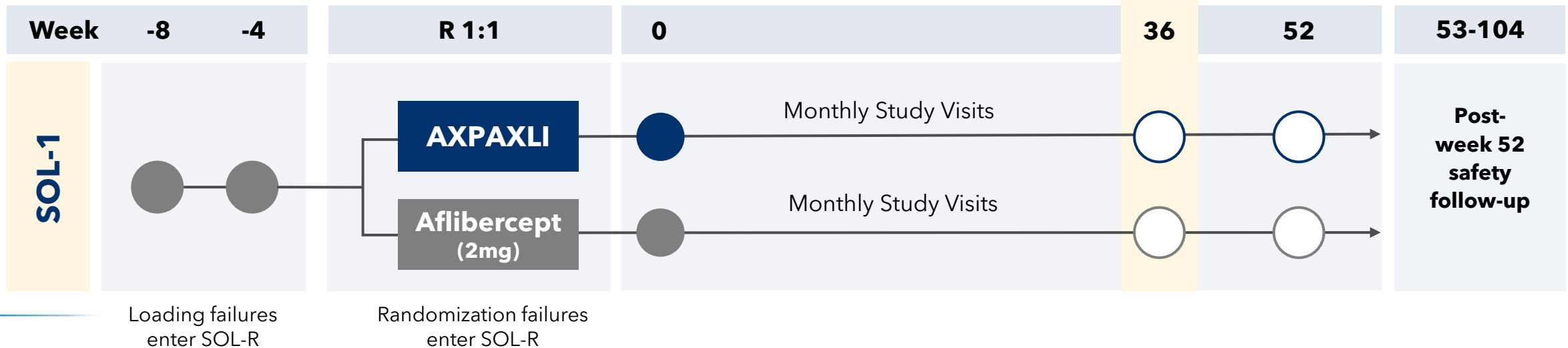
Two-arm trial with ~150 subjects per group

## PRIMARY ENDPOINT (36 WEEKS)

Demonstrate that a single AXPAXLI dose is superior to a single aflibercept 2 mg dose based on proportion of subjects who maintained visual acuity, defined as <15 ETDRS letters of BCVA loss at Week 36

**PRIMARY ENDPOINT**

## TRIAL SCHEMATIC



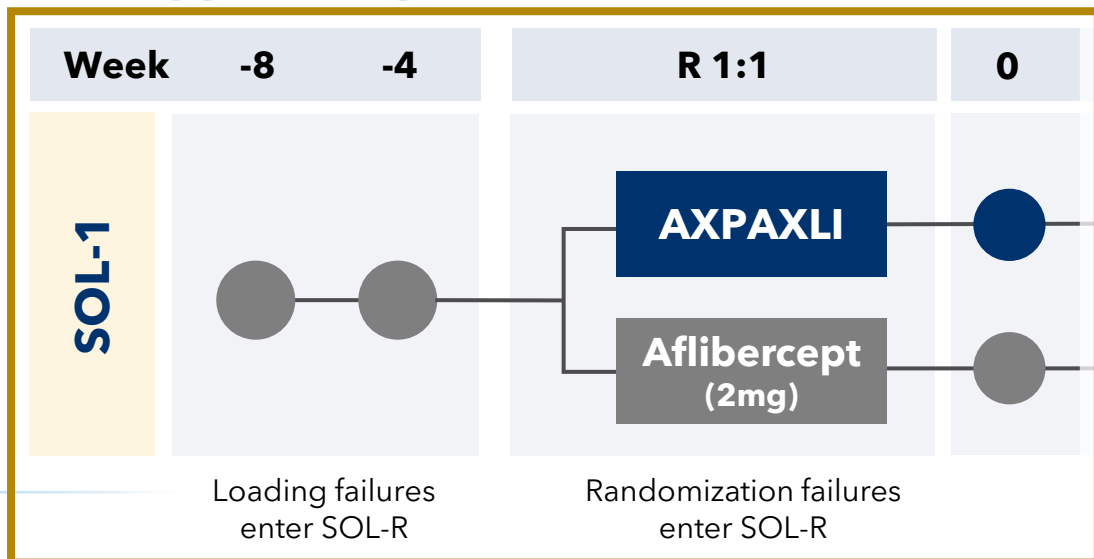
## DESIGN

Two-arm trial with ~150 subjects per group

## PRIMARY ENDPOINT (36 WEEKS)

Demonstrate that a single AXPAXLI is superior to a single aflibercept 2 mg based on the percentage of subjects who maintained visual acuity as <15 ETDRS letters of BCVA at 36 weeks.

## TRIAL SCHEMATIC



## SOL-1

## Superiority Trial

- ✓ Randomizing strong anti-VEGF responders
- ✓ Designed to establish AXPAXLI durability
- ✓ Designed to enable superiority claim on label
- ✓ FDA alignment through SPA

# Redefining Development

## De-risking Registrational Program



AXPAXLI Registrational  
Program in Wet AMD

### **SOL-1 + SOL-R**

*De-risking Complementary Trials*

- ✓ Compelling Phase 1 data
- ✓ De-risking Phase 3 designs
- ✓ De-risking regulatory path

# SOL-R Design: AXPAXLI Second Registration Study in Wet AMD



**Non-Inferiority Study** Comparing AXPAXLI Q6M to Aflibercept (2mg) Q8W

## DESIGN

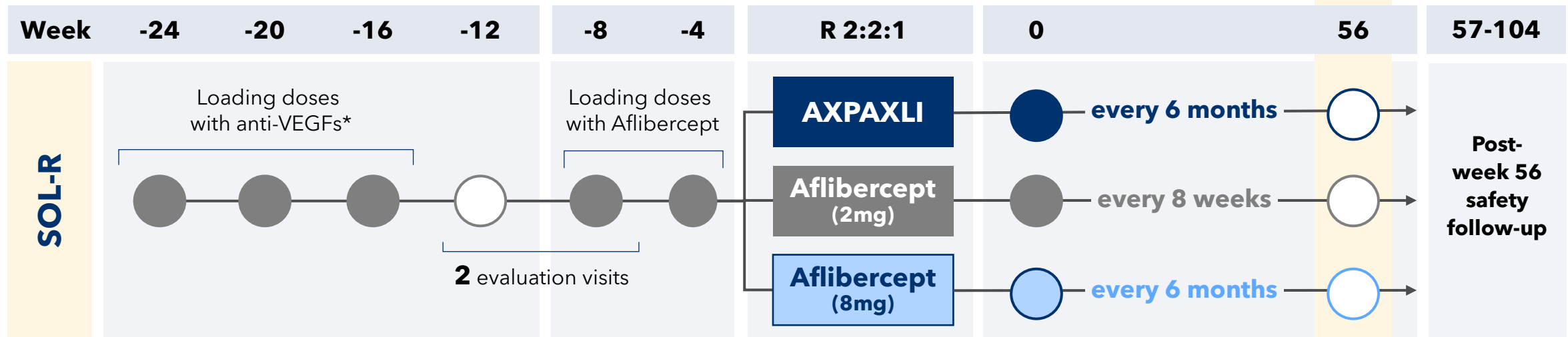
Three-arm trial with 825 total subjects randomized 2:2:1

## PRIMARY ENDPOINT (56 WEEKS)

Demonstrate that AXPAXLI is non-inferior to fixed-dose aflibercept 2mg Q8W with respect to mean change in BCVA at Week 56 from baseline in wet AMD patients

**PRIMARY ENDPOINT**

## TRIAL SCHEMATIC



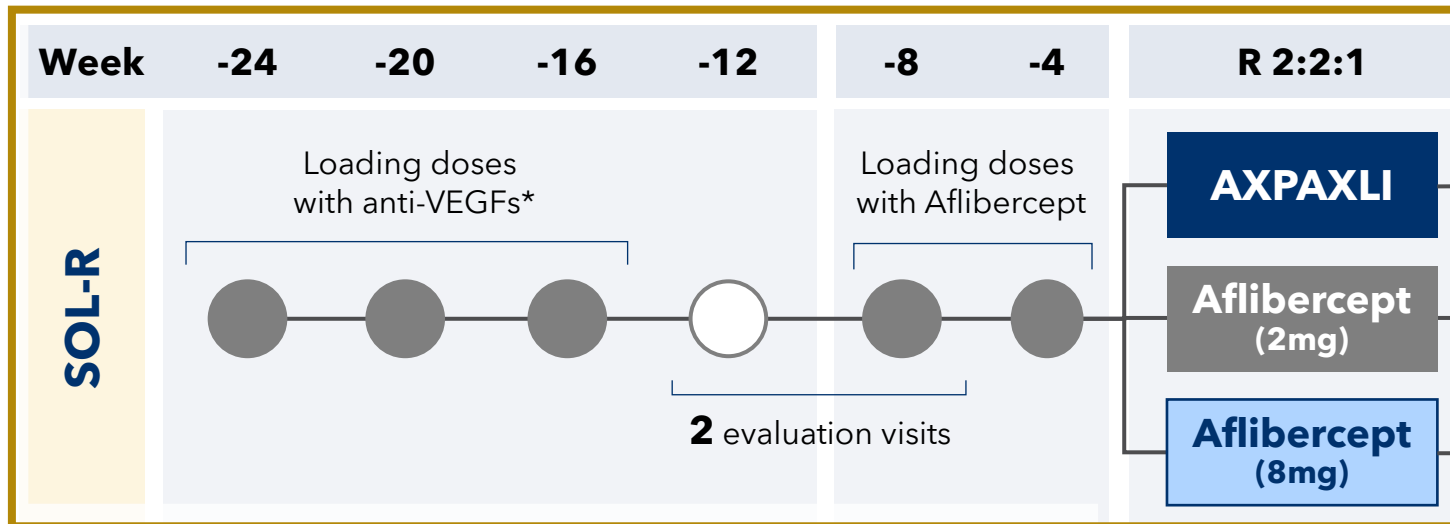
## DESIGN

Three-arm trial with 825 total subjects randomized 2:2:1

## PRIMARY ENDPOINT (56 WEEKS)

Demonstrate that AXPAXLI is non-inferior to fixed-aflibercept 2mg Q8W with respect to mean change at Week 56 from baseline in wet AMD patients

## TRIAL SCHEMATIC



## SOL-R

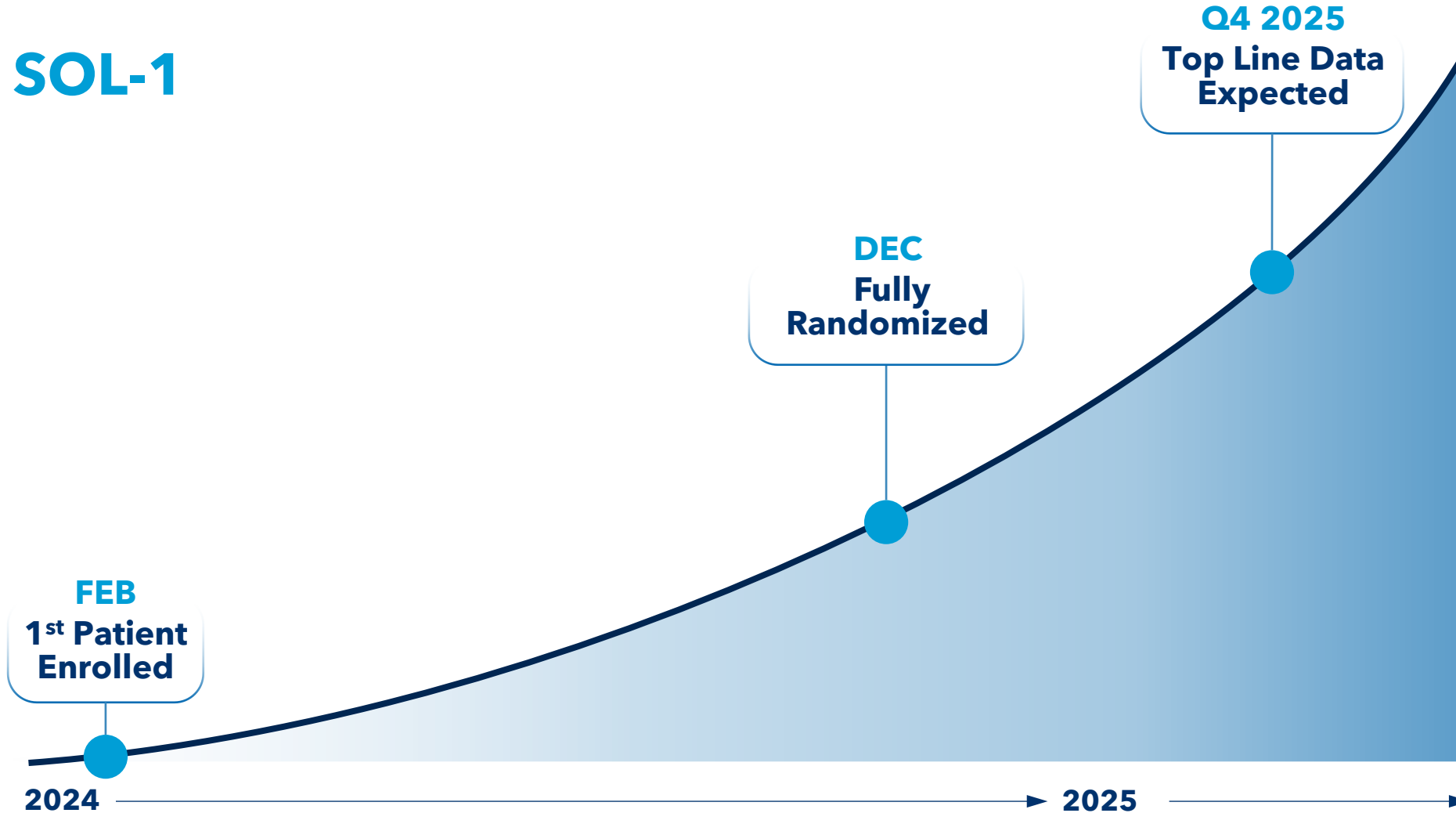
*Non-Inferiority Trial*

- ✓ Randomizing reliable anti-VEGF responders
- ✓ Designed to enable Q6M dosing on label
- ✓ Provides commercially relevant data
- ✓ FDA alignment with Type C written response

# Clinical Execution Exceeds Expectations

*Retina Leadership Drives AXPAXLI Program for Wet AMD and Beyond*

## SOL-1



**SOL-1**

Randomization complete

**>300** subjects randomized

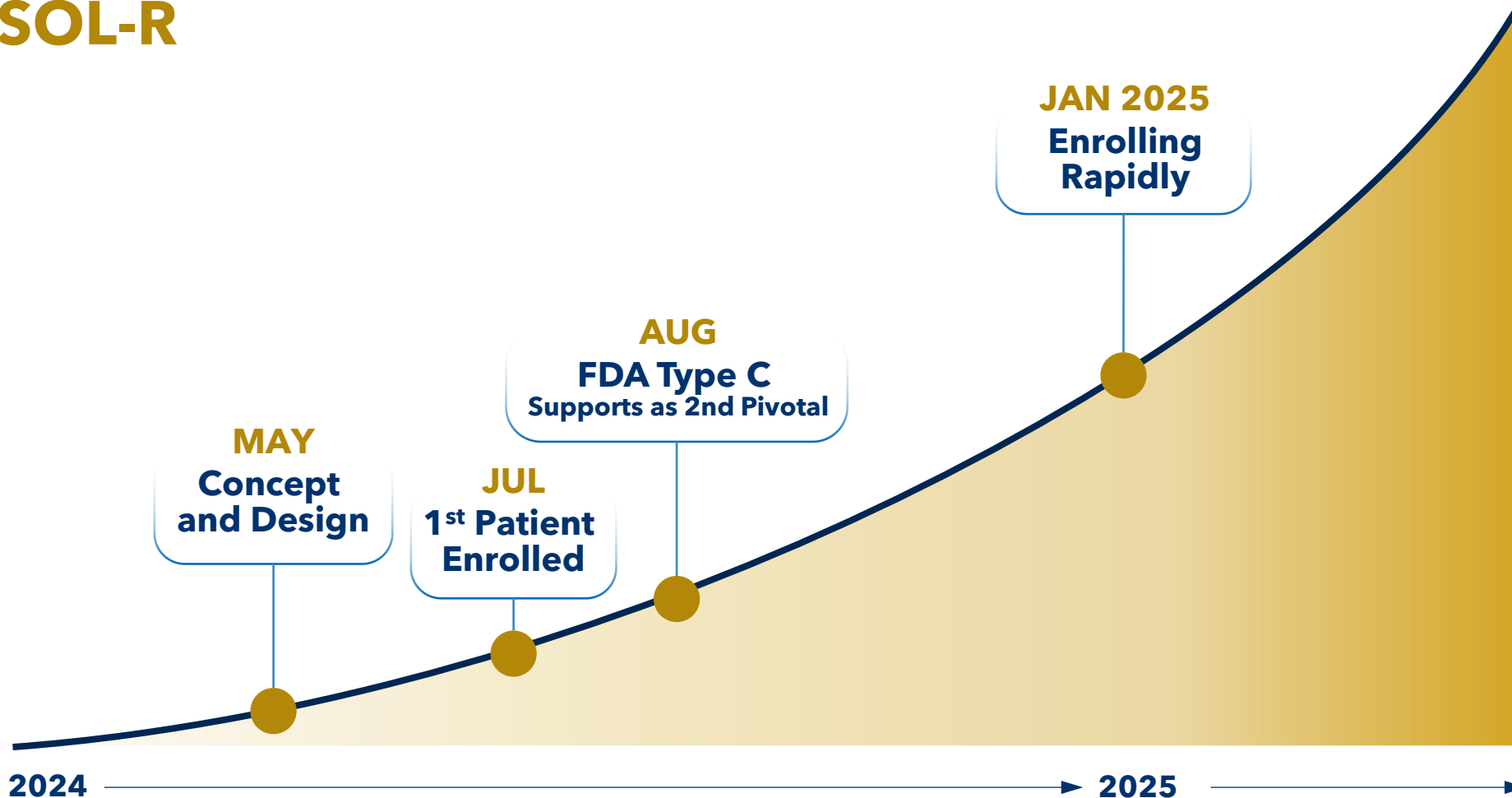
**Dec. 2024**

# Clinical Execution Exceeds Expectations



*Retina Leadership Drives AXPAXLI Program for Wet AMD and Beyond*

## SOL-R



**SOL-R**

**311** subjects enrolled  
across various stages of loading and randomization

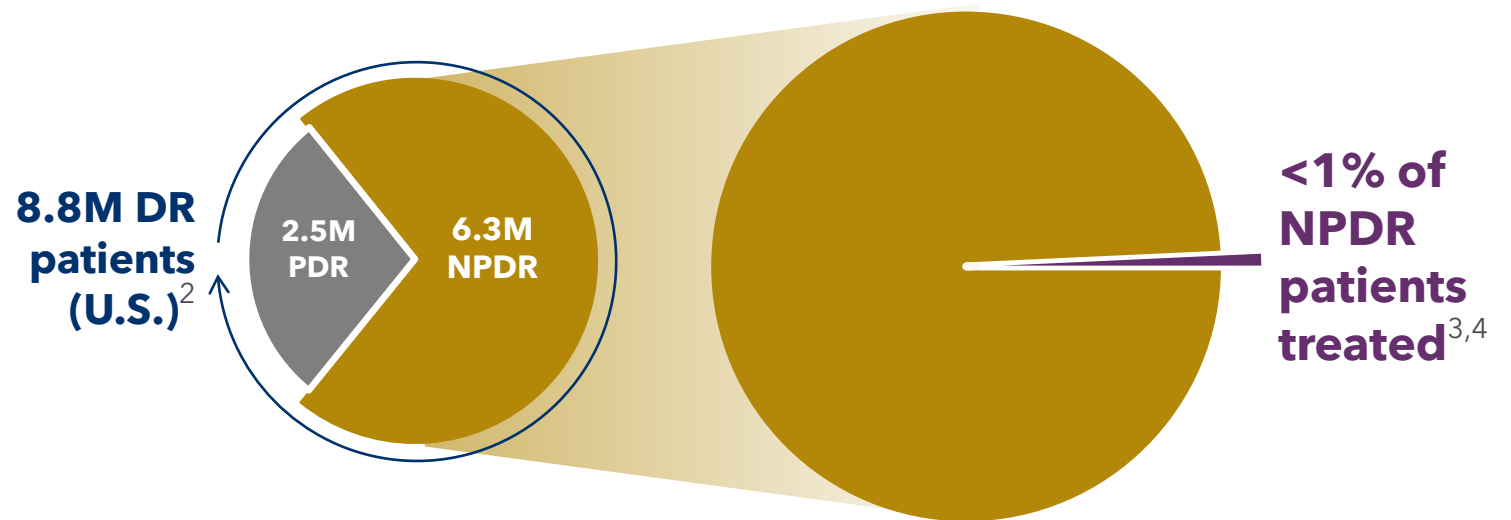
**Jan. 10, 2025**

# Diabetic Retinopathy (DR): Large and Unrealized Market Opportunity



## DR is the leading cause of blindness in the working-age population<sup>1</sup>

**HIGH BURDEN, LOW TREATMENT RATE**



NPDR = 72% of total DR population



# HELIOS: Phase 1 Study of AXPAXLI in NPDR

## DESIGN

Multi-center, double-masked, randomized, parallel group study of AXPAXLI in mod-severe to severe NPDR without CI-DME

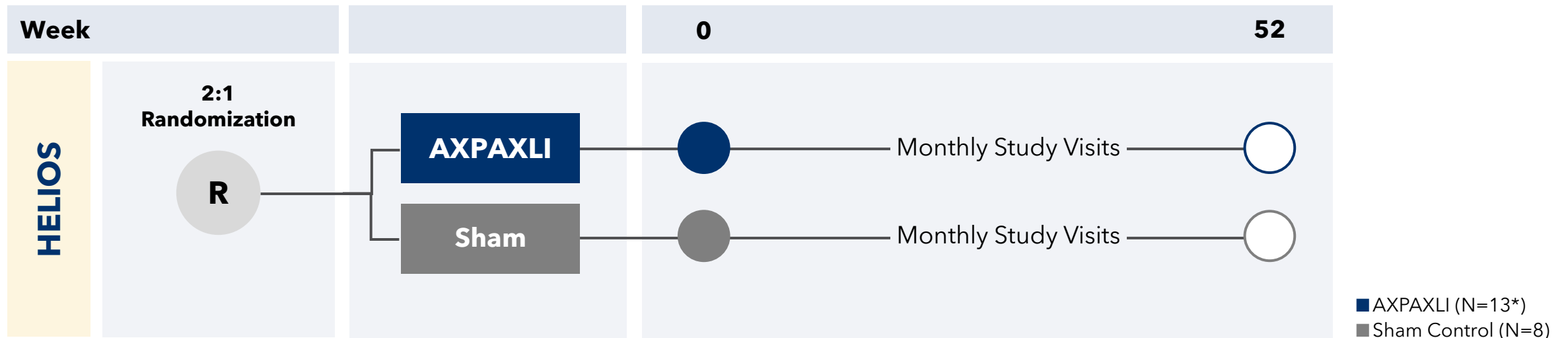
## PRIMARY ENDPOINT

Safety and tolerability of AXPAXLI

## SECONDARY ENDPOINT

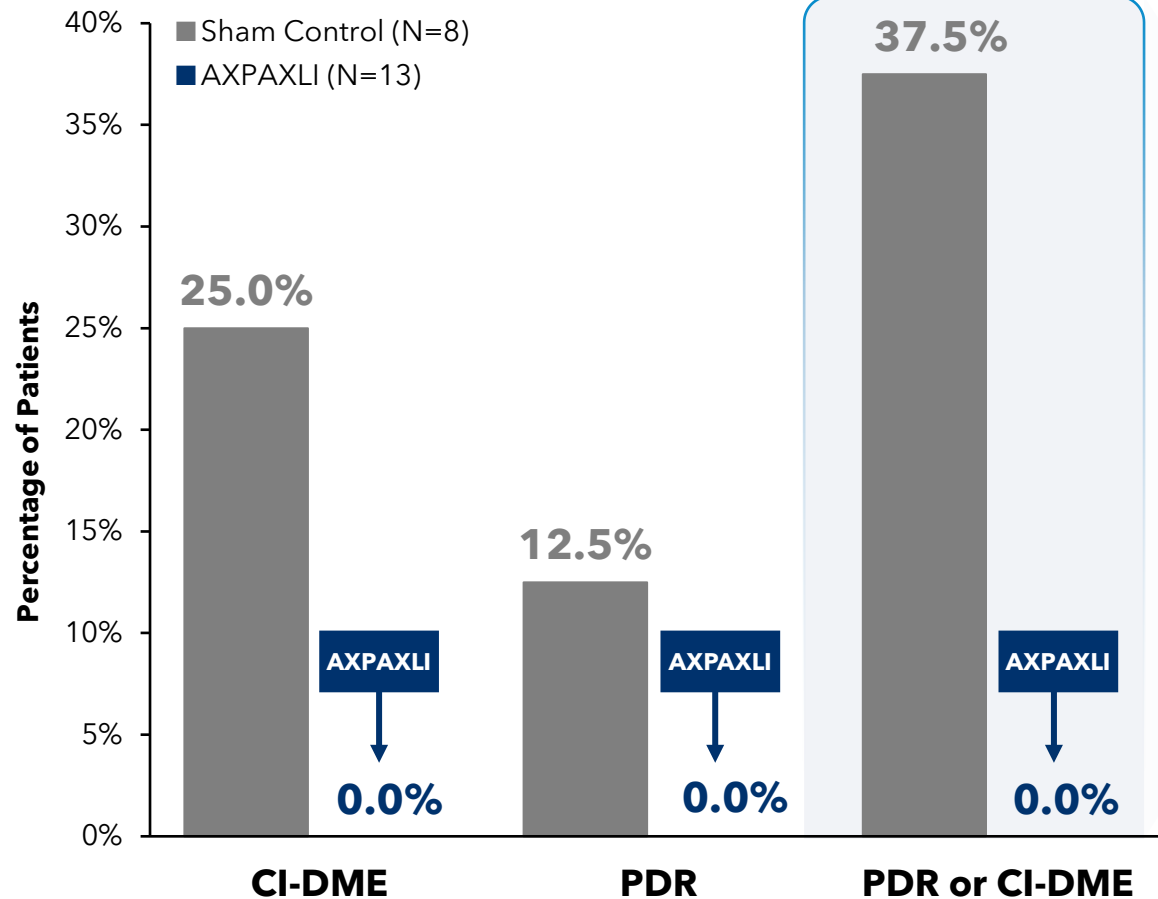
DRSS changes, rescue therapy, BCVA / CSFT, vision threatening complications (VTCs)

## TRIAL SCHEMATIC



# Phase 1: No Disease Progression with AXPAXLI at Week 48

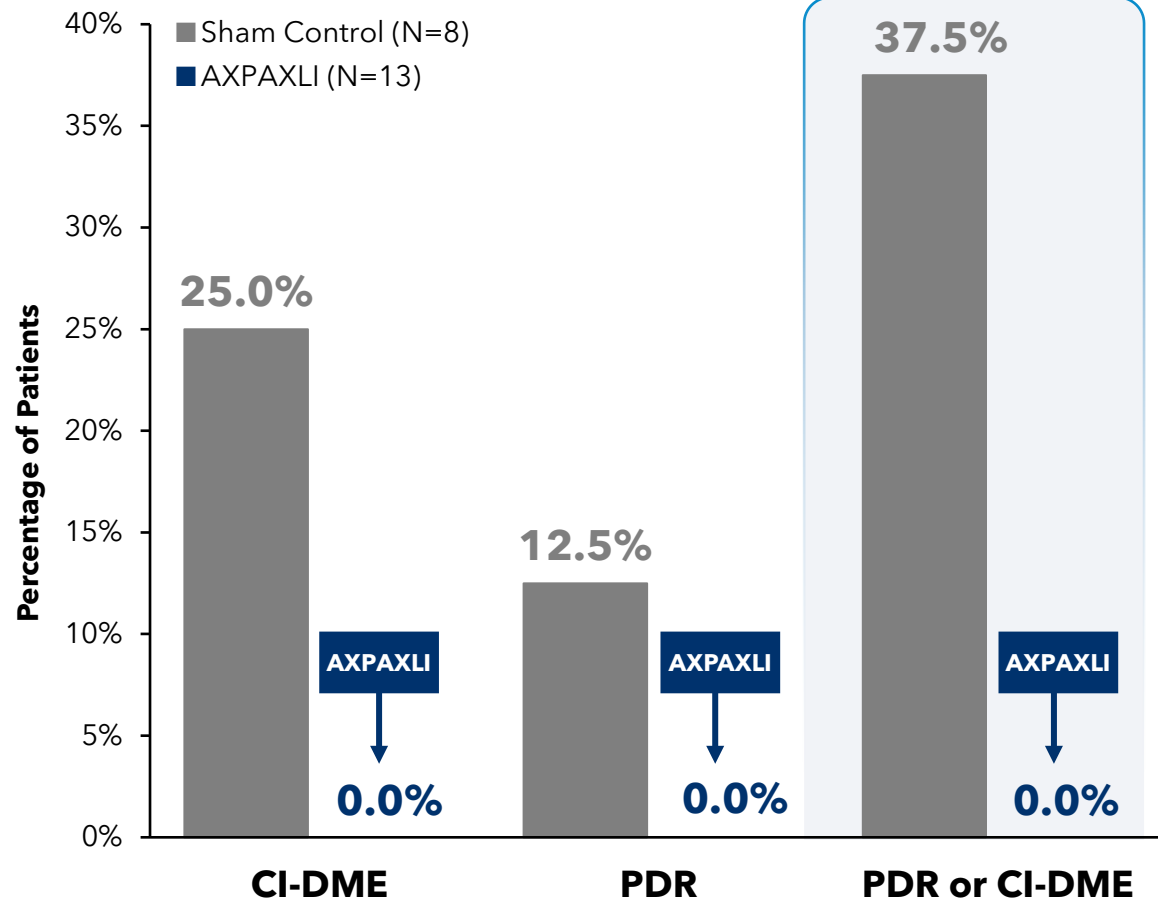
## MONOTHERAPY ACTIVITY IN NPDR



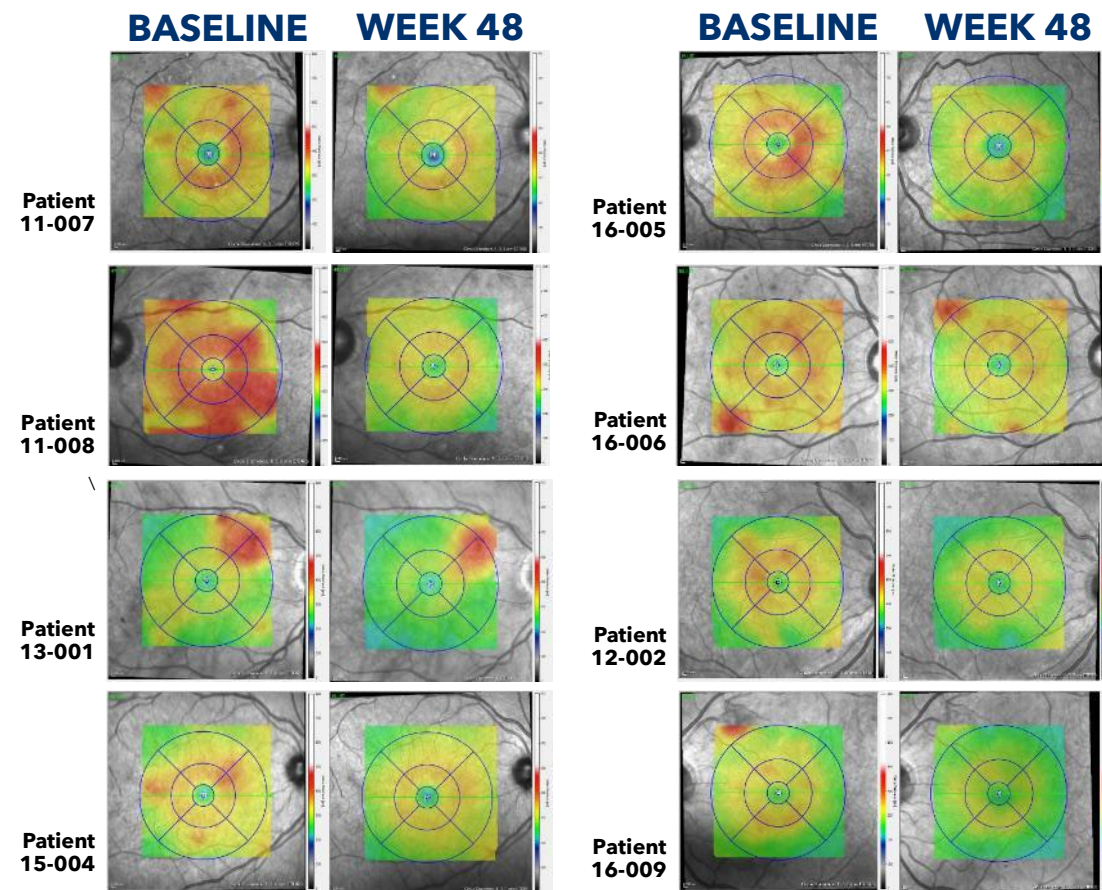
**0% in the AXPAXLI arm developed PDR or CI-DME at Week 48 compared to 37.5% in the sham arm**

# Phase 1: No Disease Progression with AXPAXLI at Week 48

## MONOTHERAPY ACTIVITY IN NPDR



## IMPROVEMENT IN DIABETIC MACULAR EDEMA



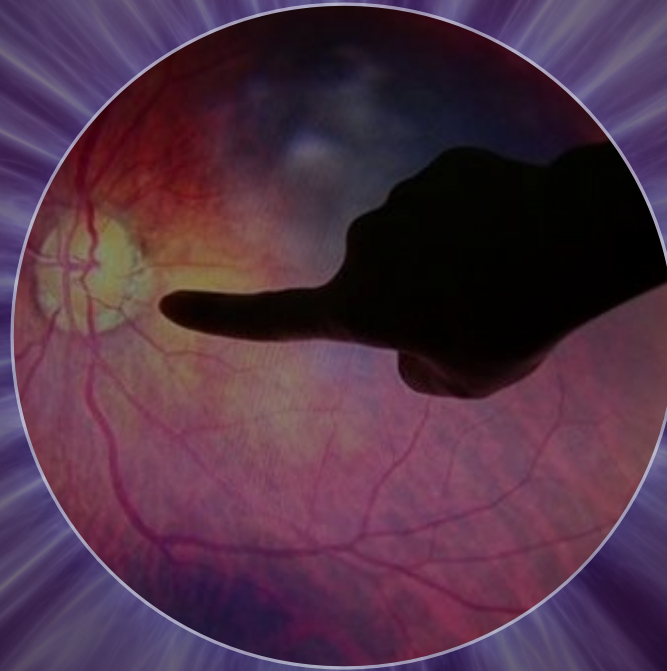
AXPAXLI-Treated Patients with non-CI-DME

# Retina Experience Redefined

Our retina experience is redefining your retina experience



Redefining  
**treatment**



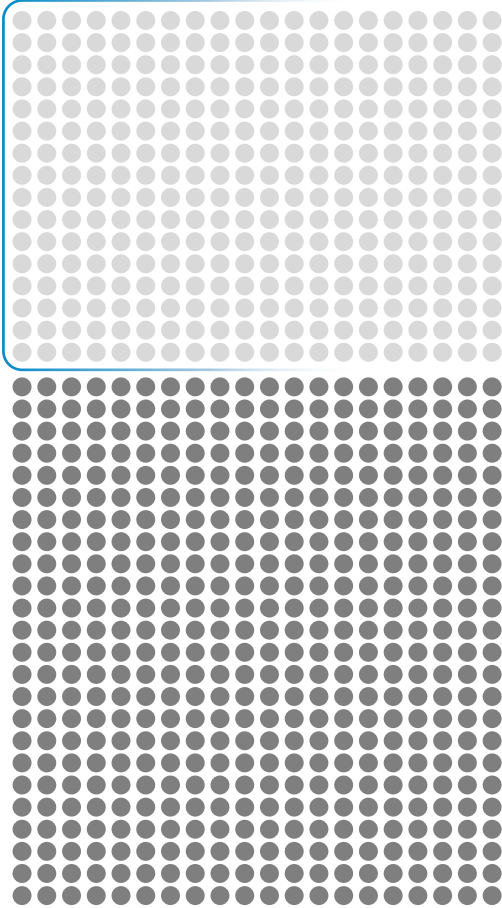
Redefining  
**development**



Redefining  
**outcomes**

# Redefining Outcomes in Wet AMD: Keeping Patients on Treatment

**40%** discontinue  
by one year<sup>1</sup>

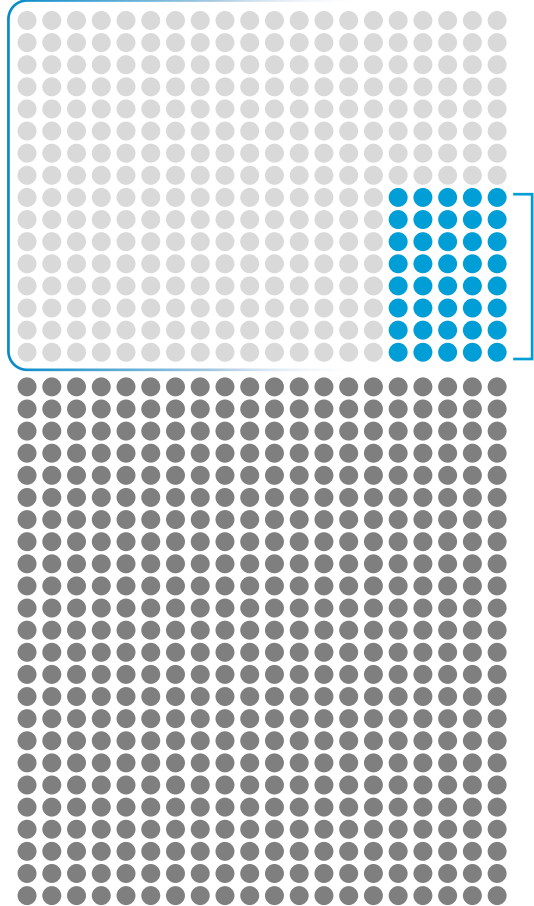


# Redefining Outcomes in Wet AMD: Keeping Patients on Treatment

If **35%**  
discontinued treatment



**>50K** additional patients could avoid vision loss in the U.S. alone



continue  
treatment

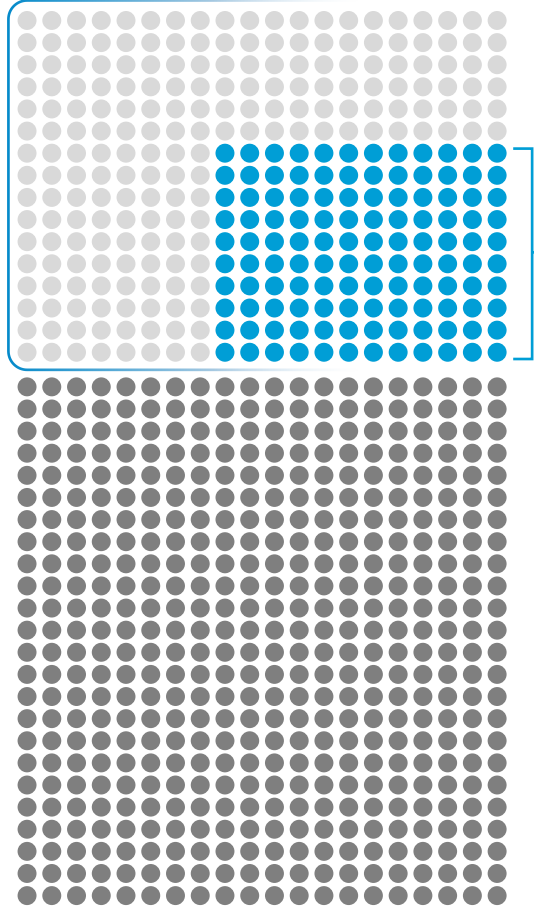


# Redefining Outcomes in Wet AMD: Keeping Patients on Treatment

If **25%**  
discontinued treatment



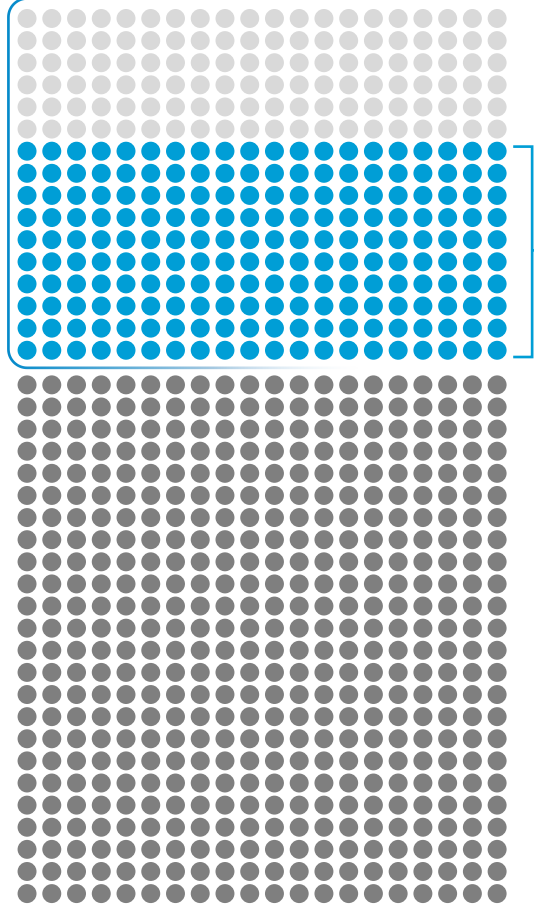
**>150K** additional patients could avoid vision loss in the U.S. alone



# Redefining Outcomes in Wet AMD: Keeping Patients on Treatment

If **15%**  
discontinued treatment

➔ **>250K** additional patients could avoid vision loss in the U.S. alone

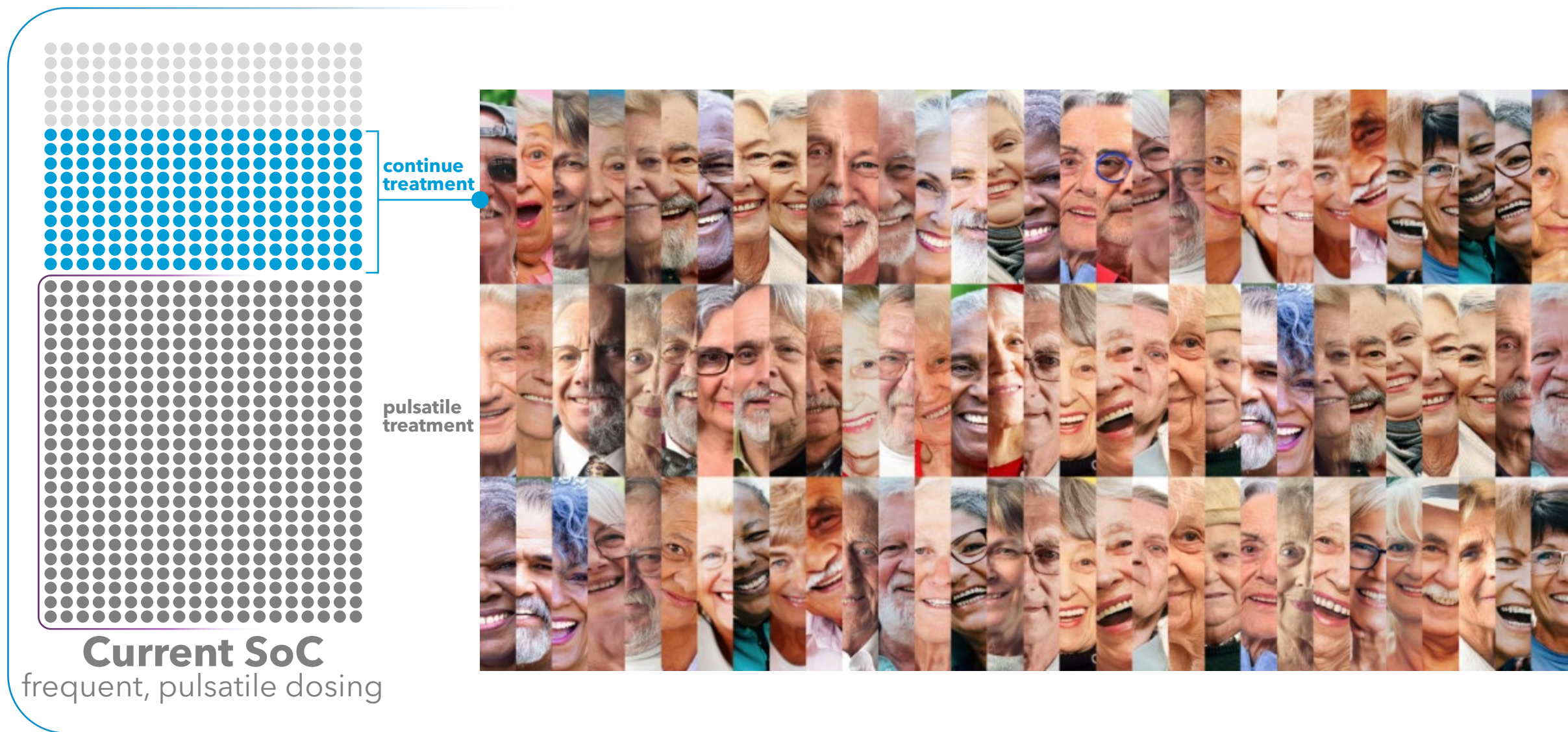


continue  
treatment

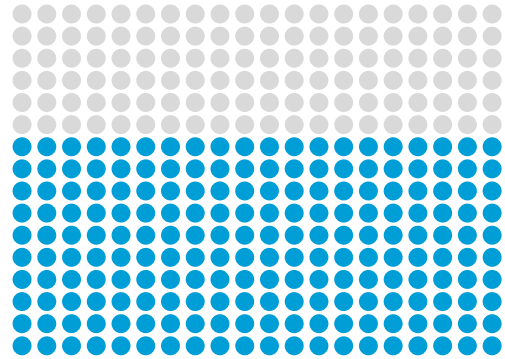




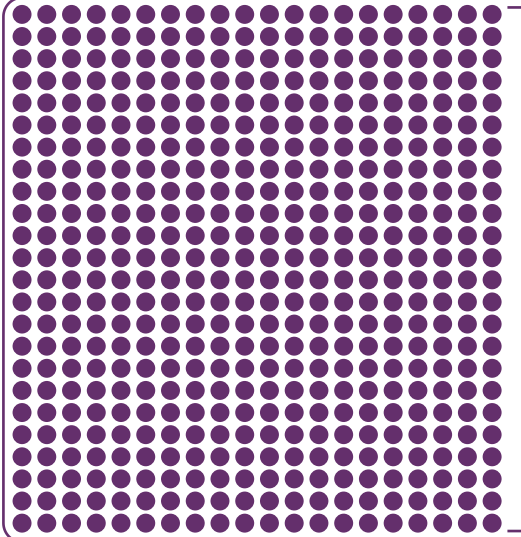
# Redefining Outcomes in Wet AMD: Addressing Pulsatile Dosing



# Redefining Outcomes in Wet AMD: Addressing Pulsatile Dosing

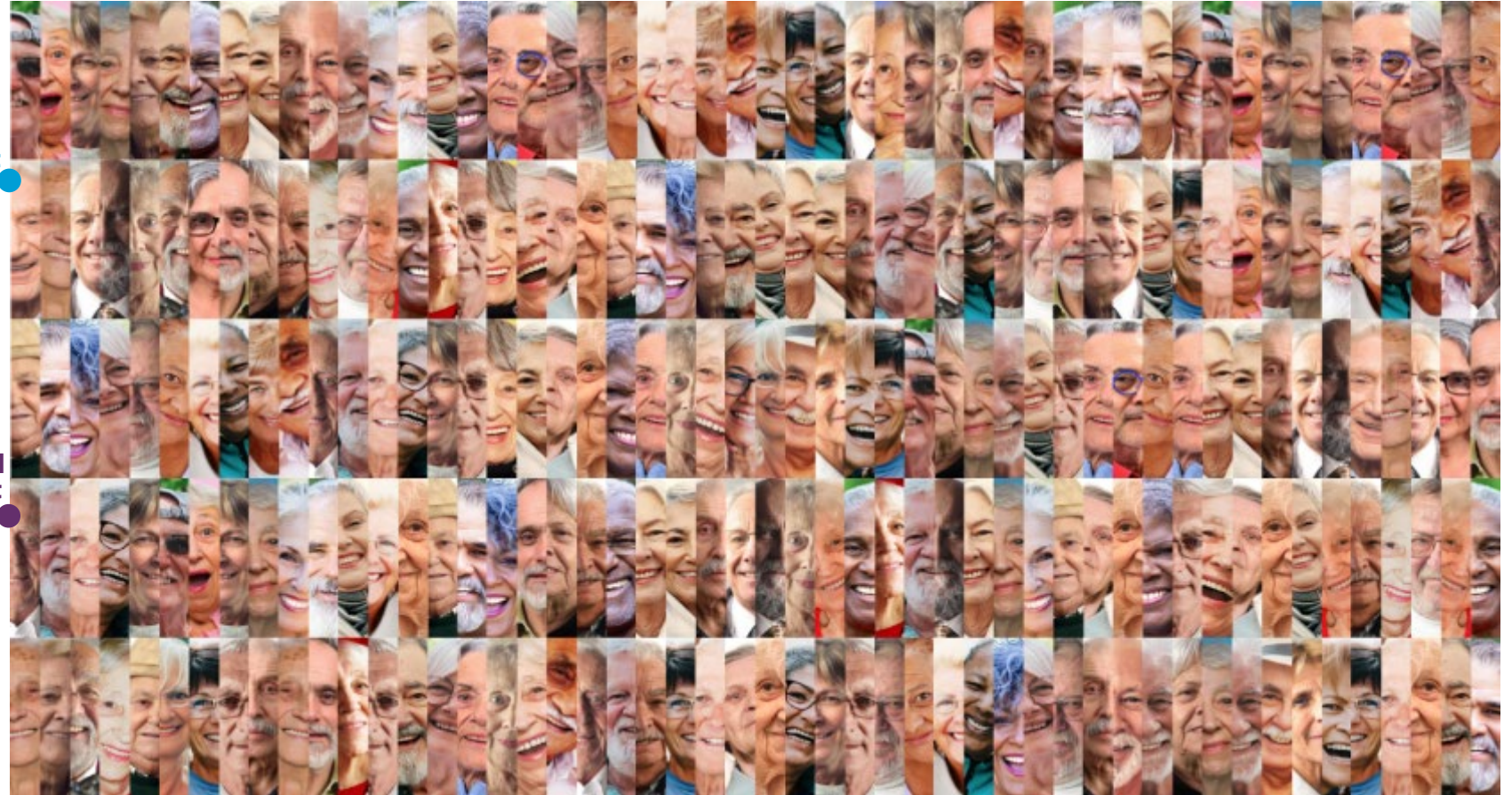


continue  
treatment



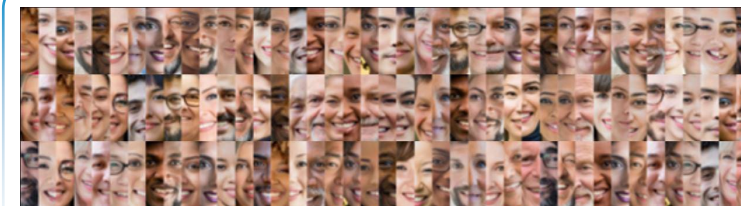
optimized  
treatment

**AXPAXLI**  
non-pulsatile treatment

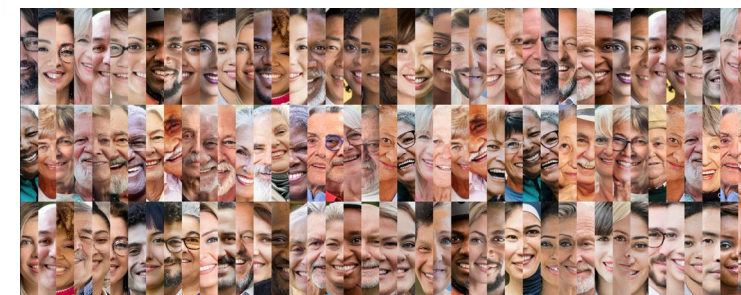


# AXPAXLI Estimated U.S. Market Potential: 9.2M Patients<sup>1</sup>

## Future Opportunities



**RVO: 1.4M**

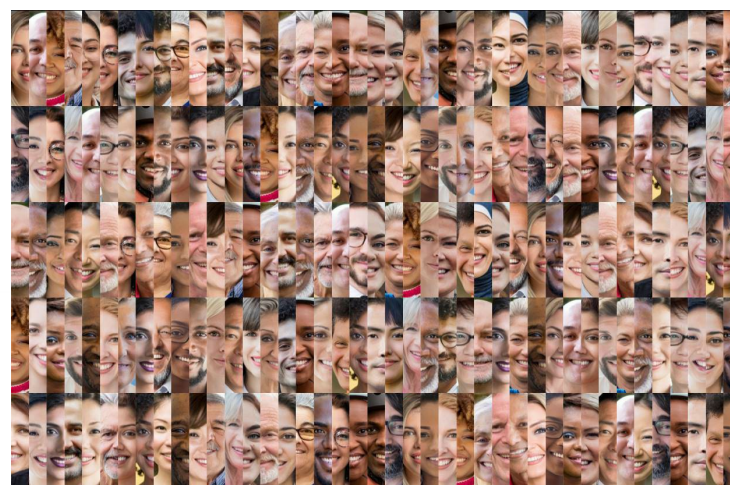


**PDR: 1.7M\***



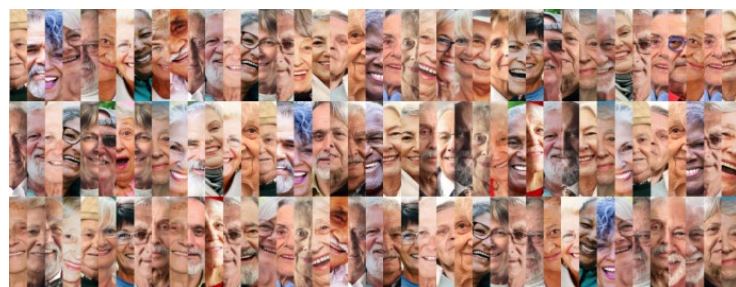
**DME: 1.7M**

## Registrational Trials in Planning



**Mod-Severe NPDR: 2.7M\***

## Registrational Trials Ongoing



**wAMD: 1.65M**

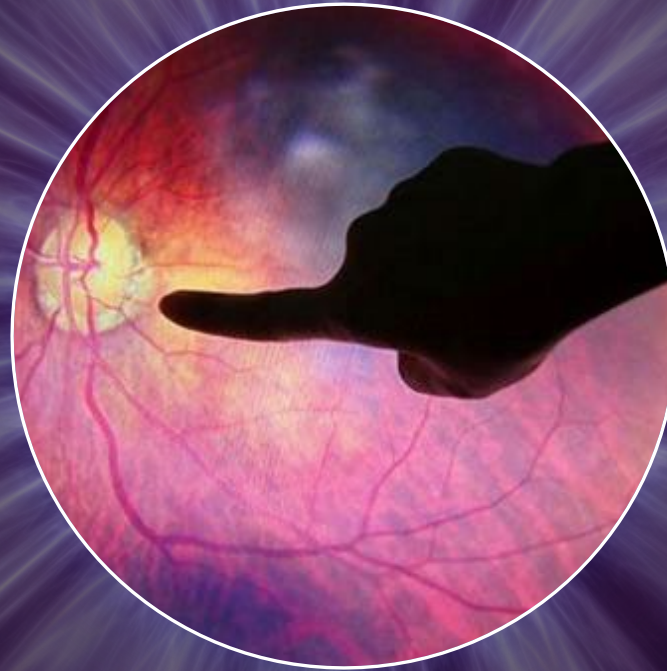
Over half (52%) of anti-VEGF injections today are for wet AMD<sup>2</sup>

# Retina Experience Redefined

Our retina experience is redefining your retina experience



Redefining  
**treatment**



Redefining  
**development**



Redefining  
**outcomes**

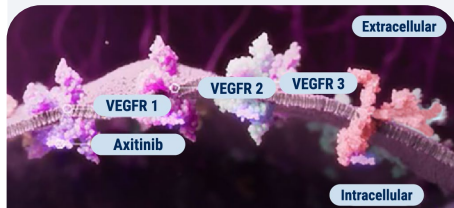
# Redefining Treatment: **AXPAXLI**

Potential for up to 12-month dosing across retinal diseases

## Proven MoA / Proven Delivery



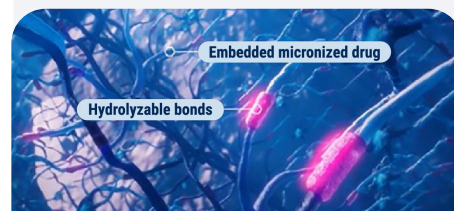
### AXITINIB



Multi-targeted  
Highly selective  
Most potent TKI



### ELUTYX™ TECHNOLOGY



Bioresorbable  
Tunable  
Hydrogel



### wAMD

**100% rescue free**  
per protocol at 6 months<sup>1</sup>

**80% rescue free**  
per protocol at 10 months<sup>1</sup>

**Monotherapy activity**  
in treatment-naïve wAMD<sup>2</sup>



### NPDR

**0% vision threatening complications**  
at one year<sup>3</sup>

**Improvement in DME<sup>3</sup>**

# Redefining Development: Risk-Off Approach to Registrational Program



*Complementary trials with measures taken to de-risk outcomes*

## SOL-1

### *Superiority Trial*

- ✓ Randomizing strong anti-VEGF responders
- ✓ Designed to establish AXPAXLI durability
- ✓ Designed to enable superiority claim on label
- ✓ FDA alignment through SPA

## SOL-R

### *Non-Inferiority Trial*

- ✓ Randomizing reliable anti-VEGF responders
- ✓ Designed to enable Q6M dosing on label
- ✓ Provides commercially relevant data
- ✓ FDA alignment with Type C written response

# Redefining the Market: **AXPAXLI** Designed with Ease of Adoption In Mind



## Our retina experience tells us...

To succeed in the retinal vascular disease market, new products **MUST** meet three key criteria:



**Safe**



**Effective**



**Durable**

To drive utilization **QUICKLY**, new products should also be:



**Flexible**



**Adoptable**

**With AXPAXLI, we intend to check all these boxes, and more.**

# Resourced for Success: Infrastructure, Capital, and Expertise to Execute

## ✓ Infrastructure

Clinical and commercial capabilities to execute successfully

## ✓ Capital

Strong cash position (\$427M at 9/30/24) expected to fund operations into 2028<sup>1</sup>

**Ocular**  
Therapeutix<sup>®</sup>

## ✓ Expertise

World-class team played key roles in the approvals of Lucentis, Eylea, and Vabysmo



# Retina Experience Redefined

Our retina experience is redefining your retina experience



Redefining  
**treatment**



Redefining  
**development**



Redefining  
**outcomes**

The logo for Ocular Therapeutix is centered within a dark blue circular area. The word "Ocular" is written in a white, elegant serif font, while "Therapeutix" is in a smaller, orange, sans-serif font below it. The tagline "Retina experience redefined." is positioned directly beneath the logo in a white, sans-serif font. The background of the top half of the slide is a vibrant, abstract pattern of purple and blue light rays radiating from the center.

*Ocular*  
Therapeutix®

Retina experience  
redefined.

**THANK YOU.**

Investor Relations

[bslattery@ocutx.com](mailto:bslattery@ocutx.com)