

Ocular Therapeutix: Redefining the Retina Experience

Jeffrey S. Heier, MD
Chief Scientific Officer,
Ocular Therapeutix, Inc.

Retina Future Forum at APVRS | Gold Coast, Australia

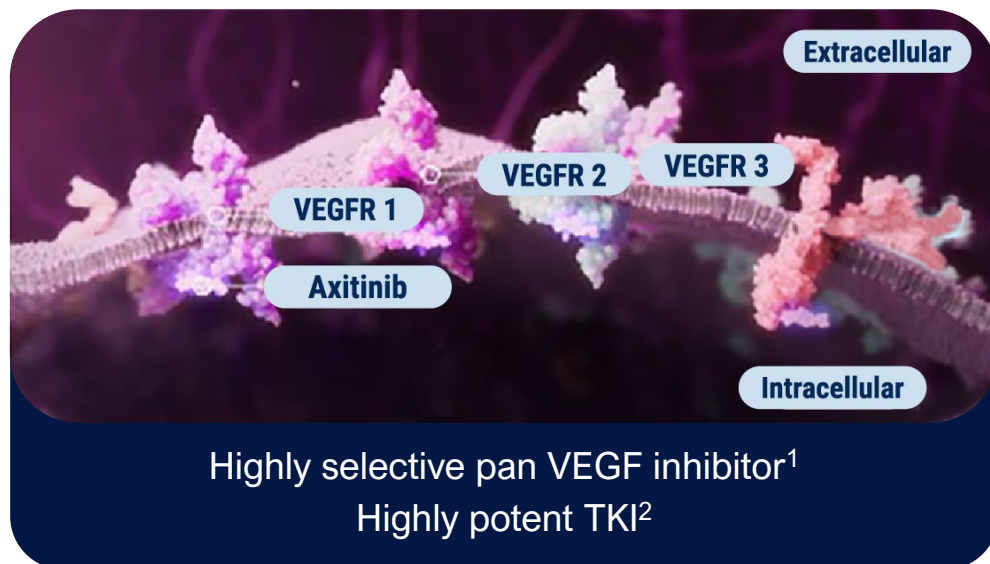
The following presentation discusses OTX-TKI, an investigational product candidate that has not been approved by the FDA or any other regulatory body; safety and effectiveness have not been established



OTX-TKI: Axitinib via Hydrogel Allows for Tunable Sustained Release

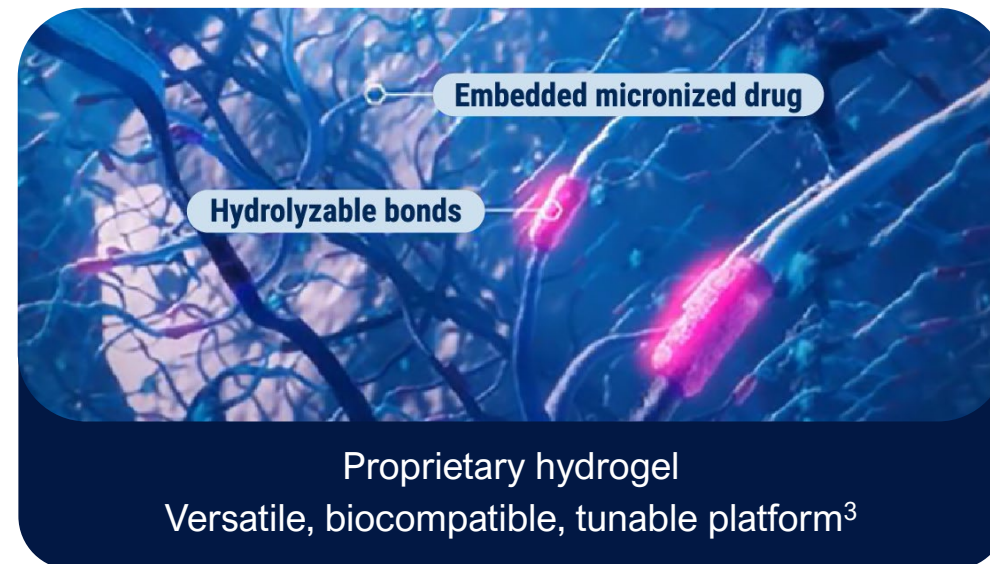
AXITINIB

Multi-target Tyrosine Kinase Inhibitor (TKI)



HYDROGEL TECHNOLOGY

Bioresorbable, Sustained Drug Delivery



+

OTX-TKI

is being developed with the aim to provide:

A single hydrogel insert^{3,4}

Continuous and consistent
delivery up to 12 months^{3,5}

Complete and predictable
bioresorption^{3,5}

OTX-TKI is an investigational product candidate which has not been approved by the FDA or any regulatory authority.

Study Design: OTX-TKI and Aflibercept Direct Comparison

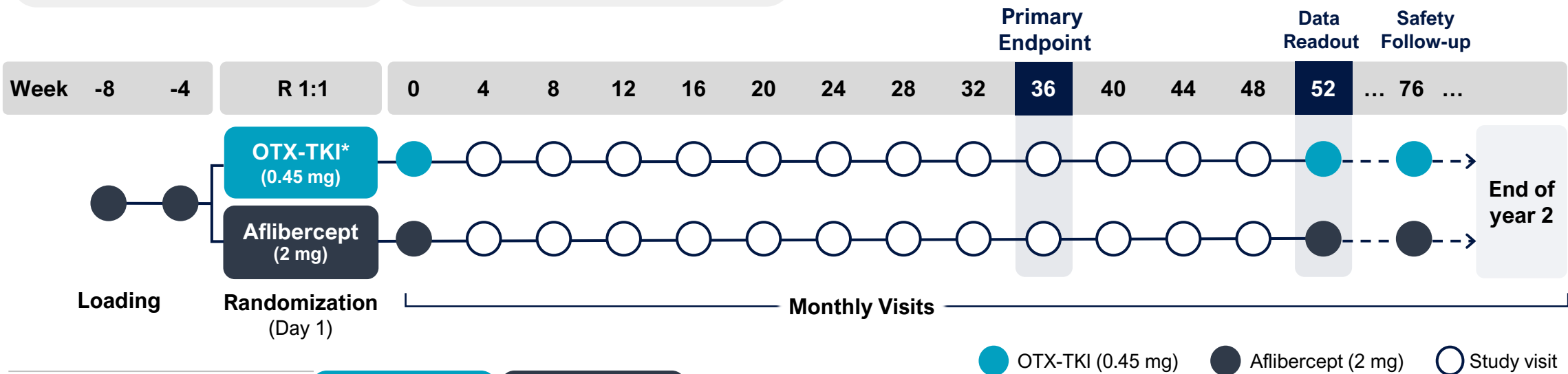
Key Enrollment Criteria (Screening)

- Treatment naïve
- **BCVA ≥ 54 ETDRS letters** (~20/80)
- **CSFT of ≤ 500 μm**

Key Randomization Criteria (Day 1)

- **BCVA gain ≥ 10 ETDRS letters**
OR
BCVA ≥ 84 ETDRS letters (~20/20)
- **CSFT of ≤ 350 μm**

Proportion of subjects who maintained visual acuity, defined as <15 ETDRS letters of BCVA loss from baseline at Week 36



Baseline (Randomization) Study Eye Characteristics	OTX-TKI 0.45 mg N = 172 [†]	Aflibercept 2 mg N = 172
Mean (SD) BCVA, ETDRS letter score, Snellen Equivalent	80.8 (7.6) ~20/25	79.2 (7.9) ~20/25
Mean (SD) CSFT, μm ,	219.3 (37.1)	226.8 (42.1)

*No aflibercept injection is given at baseline;

[†]Two OTX-TKI subjects were misrandomized, did not receive study treatment and were not included in the full analysis set

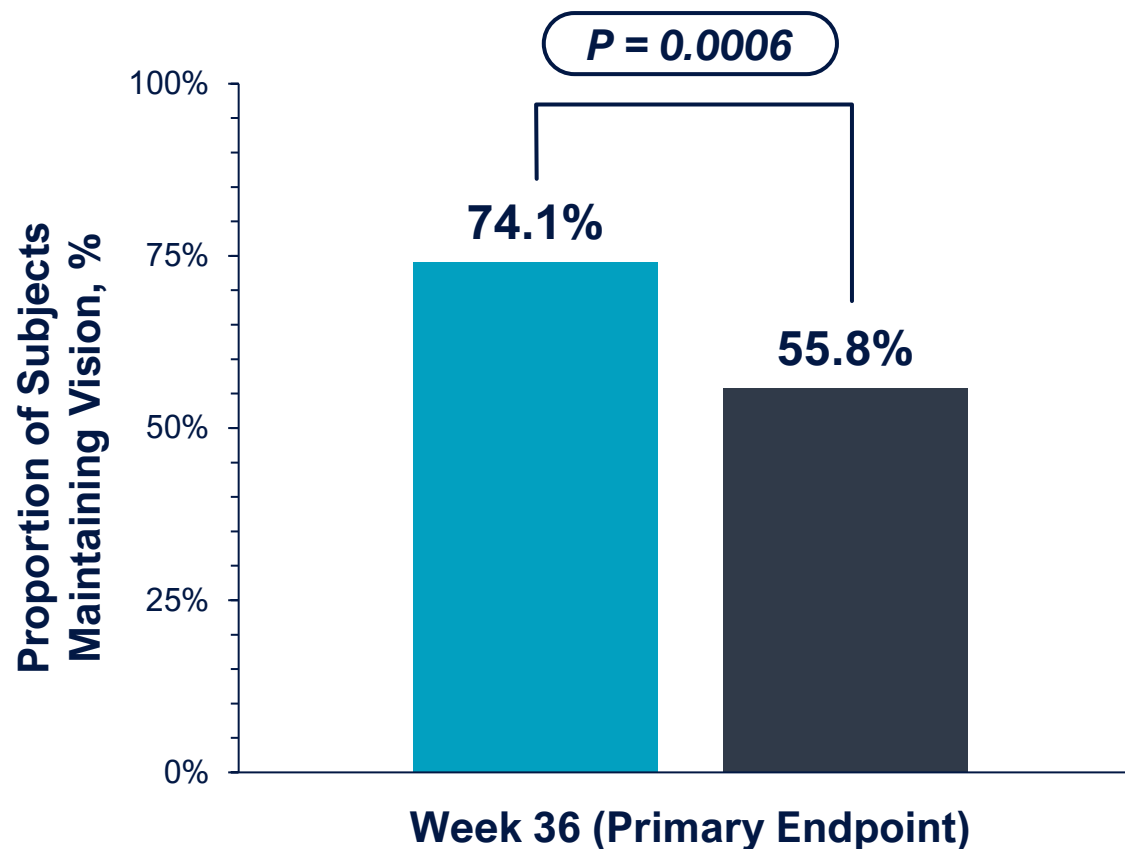
ClinicalTrials.gov. identifier: NCT06223958

Rescue Criteria: BCVA loss ≥ 15 ETDRS letters from baseline due to nAMD; or New macular hemorrhage that would likely lead to irreversible vision loss if left untreated in the opinion of the investigator after discussion with Medical Monitor

BCVA, best-corrected visual acuity; CSFT, central subfield thickness; ETDRS, Early Treatment Diabetic Retinopathy Study; SD, standard deviation

OTX-TKI Successfully Met Superiority Primary Endpoint

Vision Maintenance* with a Single Injection of OTX-TKI at Week 36



18.3%
Observed
difference

**Clear benefit[†]
with OTX-TKI vs
Aflibercept 2 mg**

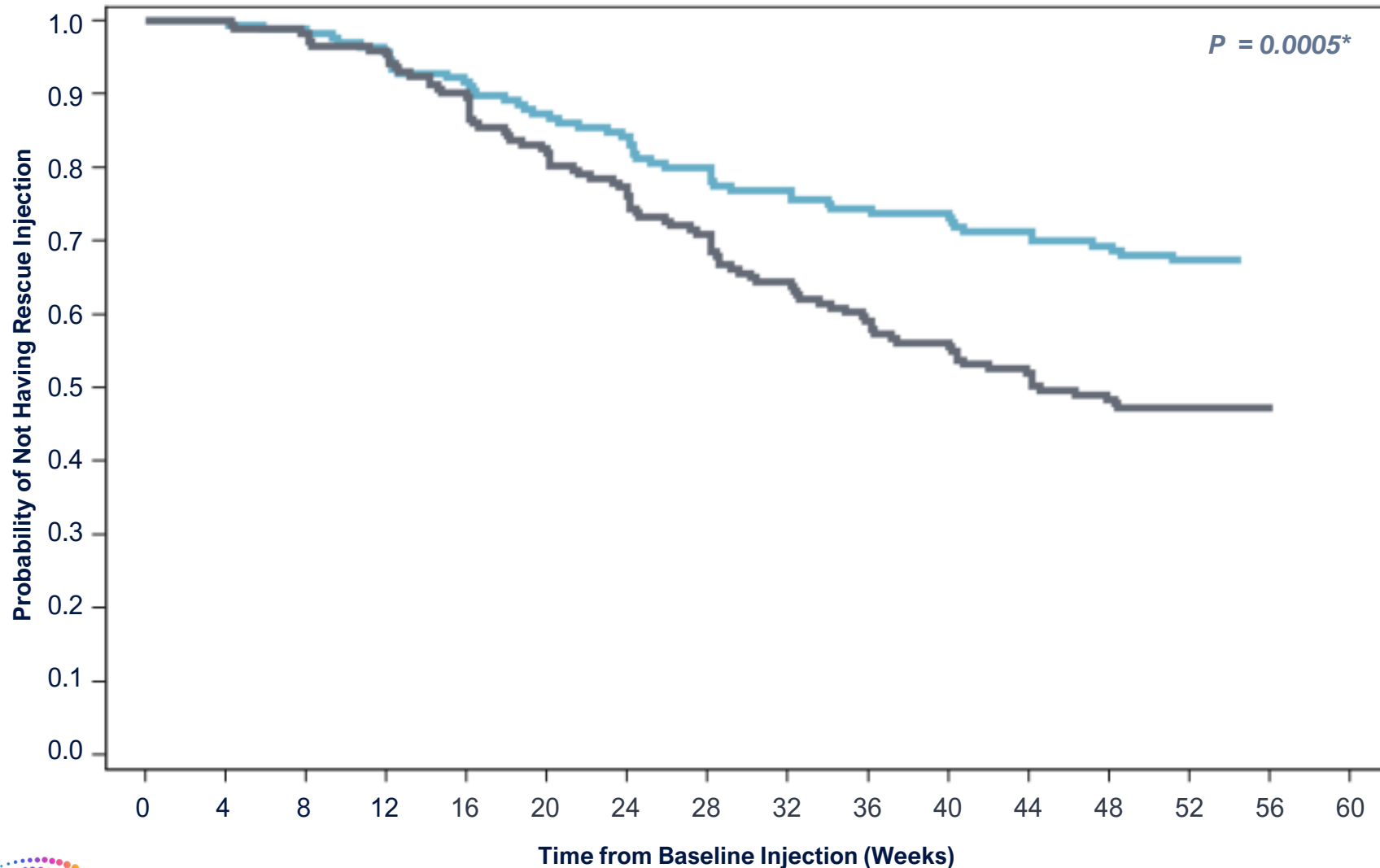
0.0006
P value

**Exceptionally high
statistical significance
bolsters confidence
in results**

■ OTX-TKI 0.45 mg (n=170)

■ Aflibercept 2 mg (n=172)

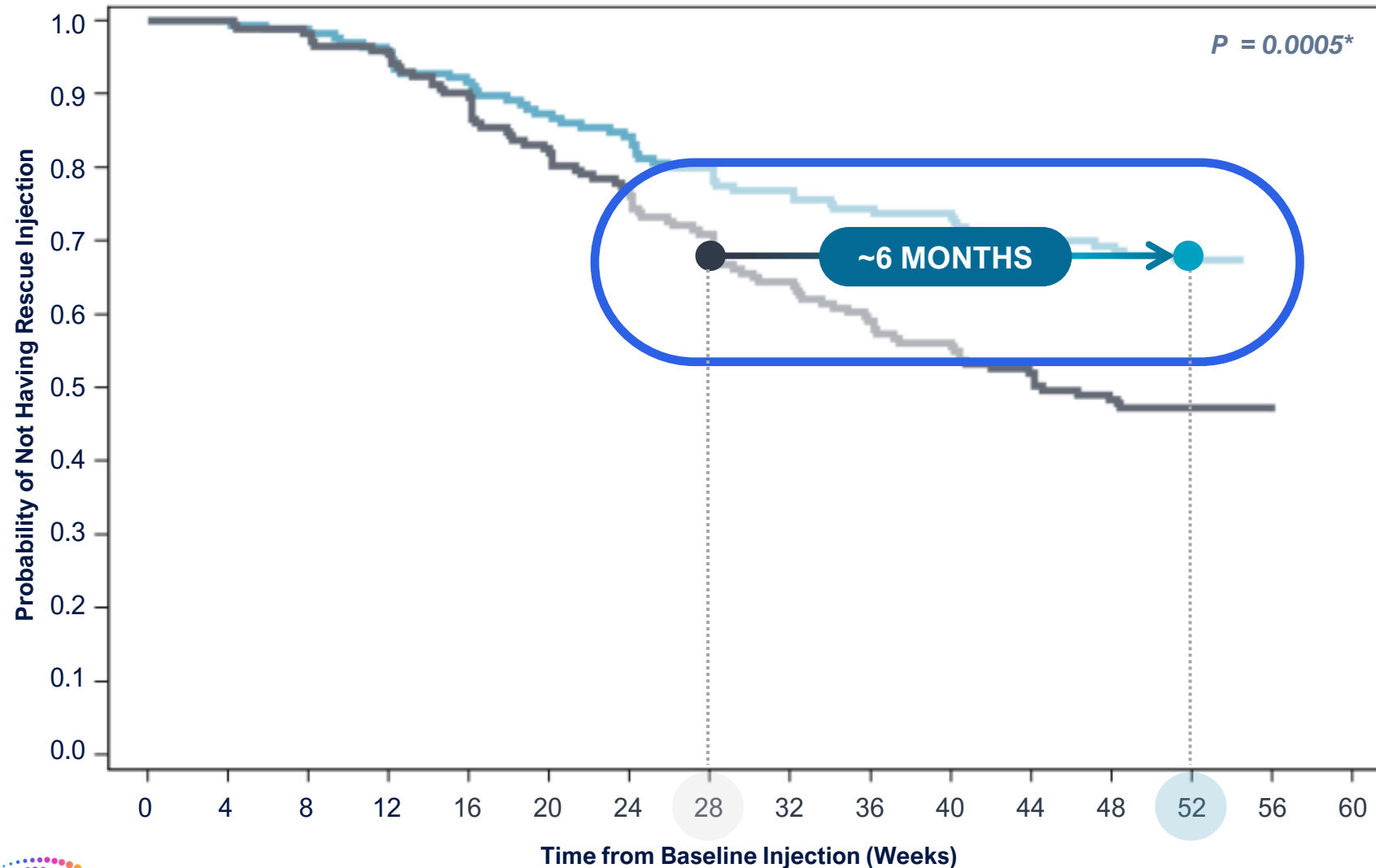
Significantly Lower Risk of Rescue During Year 1 with OTX-TKI



Time to First
Rescue Treatment

OTX-TKI 0.45 mg (n=170)
Aflibercept 2 mg (n=172)

Significantly Lower Risk of Rescue During Year 1 with OTX-TKI



Time to First Rescue Treatment

~6 Month Difference

OTX-TKI Week 52 rescue rate reflects **~6-month advantage** over aflibercept

No approved wet AMD intravitreal therapy has ≥ 6 -month dosing label

OTX-TKI was Generally Well Tolerated

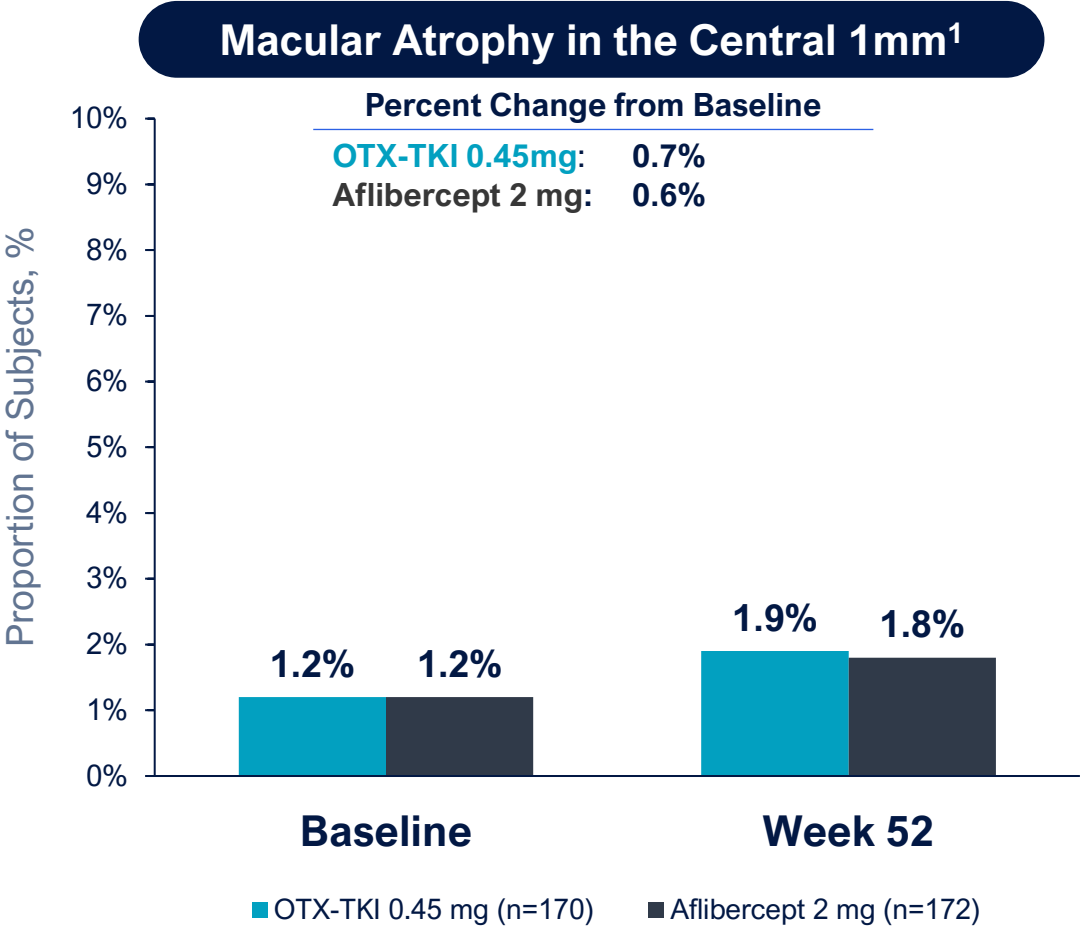
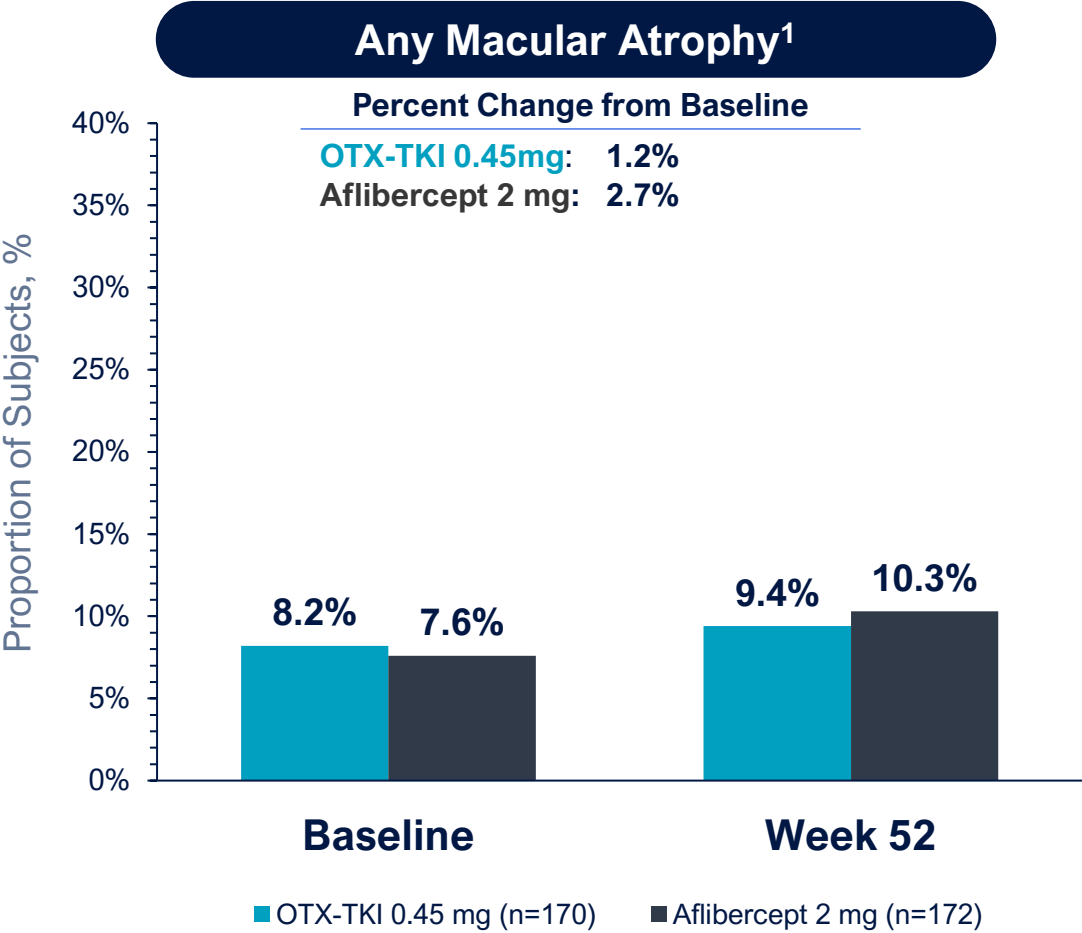
Ocular Adverse Events in the Study Eye

Subjects with Ocular AEs (> 2%) Through Week 52, n (%)	OTX-TKI 0.45 mg n = 170	Aflibercept 2 mg n = 172
Vitreous floaters	21 (12.4)	2 (1.2)
Cataract	12 (7.1)	5 (2.9)
Conjunctival hemorrhage	11 (6.5)	5 (2.9)
Retinal hemorrhage	10 (5.9)	17 (9.9)
Dry eye	7 (4.1)	2 (1.2)
Vitreous detachment	7 (4.1)	3 (1.7)
Punctate keratitis	6 (3.5)	0
Vitreous opacities	6 (3.5)	0
Eye pain	5 (2.9)	1 (0.6)
Anterior chamber opacity	4 (2.4)	0
Posterior capsule opacification	4 (2.4)	6 (3.5)

Safety is Essential in Wet AMD

**No cases
of endophthalmitis,
occlusive or
non-occlusive
retinal vasculitis**

Incidence of Macular Atrophy in SOL-1



¹cRORA measured by the reading center
cRORA, complete retinal pigment epithelium and outer retinal atrophy

Single Injection of OTX-TKI Demonstrated Superiority to a Single Injection of Aflibercept (2 mg) in SOL-1

SOL-1

SOL-1 Results Highlight OTX-TKI's Groundbreaking Profile

First Phase 3 trial to demonstrate durability out to >9 months

~75% of OTX-TKI subjects were rescue free at Week 36

Unmatched Durability

Up to 52 Week visual & anatomic stability

On average, subjects maintained visual & anatomical outcomes with a single OTX-TKI injection

Sustained Disease Control

Well-tolerated safety profile

No cases of endophthalmitis, vasculitis through Week 52

Well-Tolerated

OTX-TKI Development Program Summary

OTX-TKI

First & Only Agent with Novel Mechanism to Demonstrate Superiority to Anti-VEGF in a Phase 3 nAMD Trial



Unmatched Durability



Sustained Disease Control

nAMD Program

PHASE 3

Superiority Trial

Durability of a single OTX-TKI injection



Primary endpoint met

SOL-1

PHASE 3

Non-Inferiority Trial

Repeat dosing every 6 months

Randomization complete - topline data expected in Q1 '28

SOL-R

DR Program

PHASE 3

Superiority Trial

Evaluating yearly dosing

Enrollment in HELIOS-3 is underway

HELIOS-3