

Phase I/2 Clinical Trial of Intravitreal 4D-150 in Patients with Wet Age-Related Macular Degeneration



Interim Safety & Efficacy Data

May 2023

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- Routine intravitreal injection
- Well-tolerated & no significant safety signals or inflammation
- High clinical activity in advanced patients
- Phase 2 enrollment ahead of schedule

PRISM

Data Summary

Phase I Patient Population (N=15)	•	Dose Cohorts: 3E10 (high; n=5) vs 6E9 & IE10 (lower doses; n=10 total)		
] •	Advanced, high-need patients: top ~15% anti-VEGF utilization (IRIS)		
Safety) •	No Grade >I inflammation (up to 64 weeks f/u)		
	•	High Dose Phase 2 BCVA-Eligible (36 weeks; n=4):		
		• 4 of 4 (100%) Injection-Free		
		 Mean CST meaningfully improved (-74 μm) 		
Clinical Activity		Lower Doses (24 weeks; n=10):		
		 75% reduction anti-VEGF injection frequency 		
	J	 o f 10 (70%) ≤1 Injection (4 of 10 or 40% Injection-Free) 		
PRISM Status &	•	Phase 2 enrollment >50%; expect completion in Q3 (updated from Q4)		
Next Steps	J	• BCVA threshold raised for Phase 2: 25–78 \rightarrow 34–83 ETDRS letters		

Pipeline: Large Market Ophthalmology Portfolio

THREE LARGE & SUSTAINABLE PATIENT POPULATIONS

VECTOR Delivery	PRODUCT CANDIDATE	INDICATION	EPIDEMIOLOGY (PREVALENCE)	RESEARCH CANDIDATE	IND- ENABLING	PHASE I / 2	PHASE 3	PRODUCT RIGHTS			
R I 00 Intravitreal	OPHTHALMOLOGY										
		Wet AMD	~3M U.S./EUMM					¢4DMT			
	4D-150	Diabetic Macular Edema	~1.2M U.S.					¢4DMT			
	4D-125	XLRP	~24K U.S./EUMM					¢4DMT			
	4D-110	СНМ	~13K U.S./EUMM					¢4DMT			
	4D-175	Geographic Atrophy	~1M U.S.					¢4DMT			
Al0I Aerosol	PULMONOLOGY										
4D	4D-710	CF Lung Disease (modulator-ineligible)	~6K U.S.					¢4DMT			
	40-710	CF Lung Disease (modulator-eligible)	~34K U.S.					¢4DMT			
	4D-725	AIAT Deficiency Lung Disease	~200K U.S./EUMM					4DMT			
C102	CARDIOLC	CARDIOLOGY									
" (4D-310*	Fabry Disease Cardiomyopathy	~50-70K U.S./EUMM					4DMT			

*Currently on clinical hold.

4D-150 is Highly Differentiated vs Eylea & AAV Competitors

POTENTIAL ADVANTAGES COMPARED TO ESTABLISHED & DEVELOPMENT-STAGE THERAPIES

Product Desig	gn	Eylea™	RGX-314 (subretinal)	RGX-314 (suprachoroidal)	ADVM-022 (IVT)	4D-150 ¹ (IVT)
Administration & PK	Illustrative Pharmacokinetics	Addit-VEGF Concentration	Single Dose	Not available	Juli - Ju	Single IVT Dose
	Single dose		+	+	+	+
	IVT injection	+	_	_	+	+
Anti-VEGF Inhibition	VEGF-A	+	+	+	+	+
	VEGF-B	+	_	_	+	+
	PIGF (placental GF)	+	_	_	+	+
	VEGF-C		_	_	_	+
Safety Results	No hypotony	+	+	+	_	+
To Date	No significant uveitis	+	+	*	_	+
	Primate evolved/optimized vector	NA	_	_	_	+
	Low-dose AAV	NA			_	+

For illustrative purposes only, no head-to-head comparison conducted. *Mild to moderate uveitis observed without steroids, steroid regimen currently being studied. 1. Based on interim clinical results from Phase 1/2 trial with data cutoff of April 3, 2023.

Goals: Intravitreal 4D-150 PRISM Phase I Dose Exploration Stage ALL GOALS ACHIEVED

- Determine safety & tolerability
- ✓ Demonstrate clinical activity
 - First-in-human trial; severe disease patients
 - Phase 2 & 3 determine efficacy in broader patient population
- ✓ Demonstrate dose-response
- Select Ph 2 randomized stage doses
- ALL goals achieved

4D-150 Phase I Dose Exploration in Wet AMD Patients (N=15)

Interim Clinical Data (Data Cutoff: April 3, 2023)



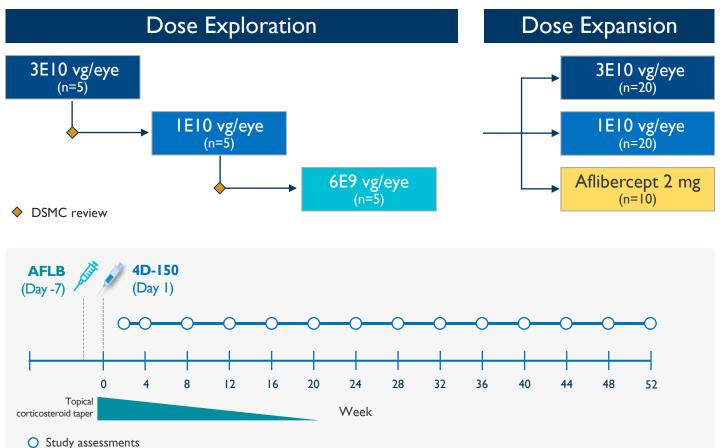




4D-150 Phase 1/2 Clinical Trial Design

OBJECTIVE: EVALUATE SAFETY, TOLERABILITY & CLINICAL ACTIVITY IN ANTI-VEGF-DEPENDENT PATIENTS

Study Design



*Dose exploration phase. †Sentinel subject. AMD, age-related macular degeneration; BCVA, Best-Corrected visual acuity; CNV, choroidal neovascularization; CST, central subfield thickness; ETDRS, Early Treatment Diabetic Retinopathy Study; TEAE, treatment emergent adverse event; SAE, serious adverse event; VEGF, vascular endothelial growth factor.

Key Inclusion Criteria*

- CNV secondary to AMD
- Anti-VEGF injections last 12 months: ≥6 & responsive
- <u>Ph I:</u> 25–78 ETDRS letters[†]
- <u>Ph 2</u>: 34–83 ETDRS letters

Primary Endpoint

Incidence & severity of TEAEs & SAEs

Key Secondary Endpoints

- BCVA & CST: change from pre-treatment
- Aflibercept supplemental injections:
 - Key Criteria: CST (OCT) increase ≥75 microns, BCVA worsened ≥10 letters attributed to observed intraret or subret fluid, or new retinal hemorrhage
 - % requiring supplemental aflibercept
 - Annualized anti-VEGF injection rate: % change

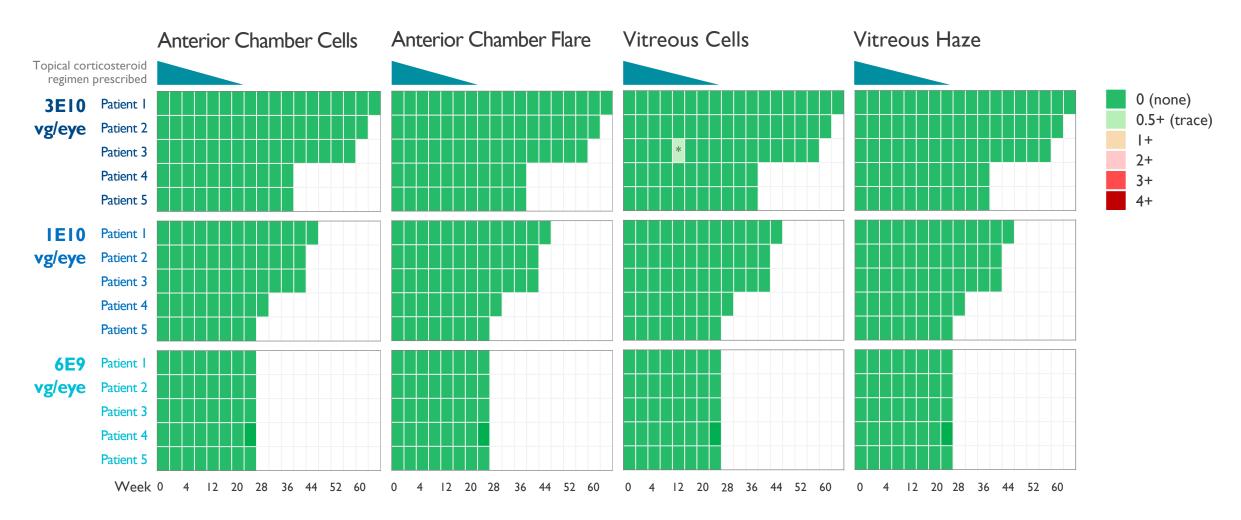
Interim Safety Summary: All Patients 24-64 Weeks ALL DOSES WELL-TOLERATED WITH NO GRADE 21 INFLAMMATION OF HYPOTONY

- No DLTs
- No 4D-150-related SAEs
- No inflammation Grade ≥ I
- No significant 4D-150-related adverse events:
 - No hypotony, no endophthalmitis, no retinal vasculitis, no choroidal effusions, no retinal artery occlusion

< P R I S M

Ophthalmic Exams for Inflammation: 99.8% Assessments Normal

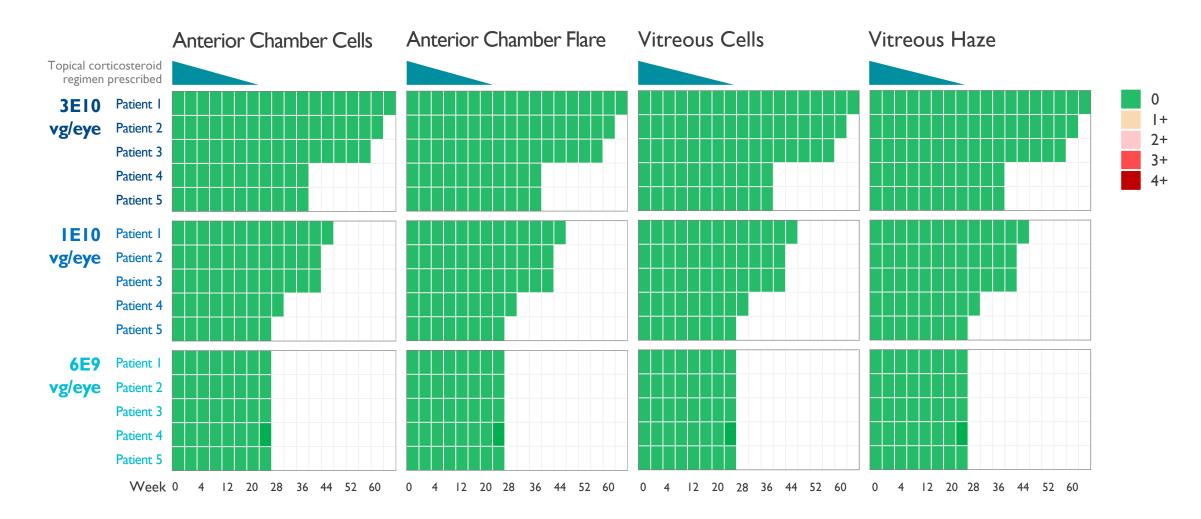
SUN & NEI SCORES FOR WBC, FLARE & HAZE (24-64 WEEKS); 667 OF 668 (99.8%) ASSESSMENTS NORMAL



Data cutoff date, April 3, 2023. Protocol-mandated 20-week prophylactic steroid eyedrop taper completed in all but one participant (patient 1, 3E10 vg/eye). *Trace mixed pigmented and unpigmented cells. NEI, National Eye Institute; SUN, Standardization of Uveitis Nomenclature; WBC, white blood cells.

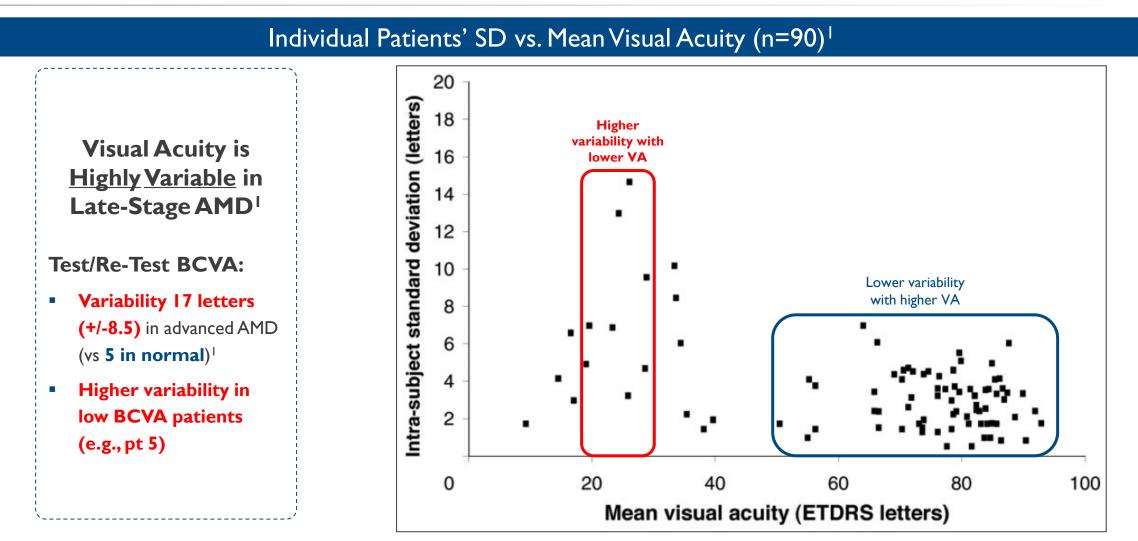
No Grade <a>I Inflammation Episodes (n=668 Evaluations)

100% OF 668 ASSESSMENTS NEGATIVE FOR GRADE 1 OR HIGHER INFLAMMATION



Data cutoff date, April 3, 2023. Protocol-mandated 20-week prophylactic steroid eyedrop taper completed in all but one participant (Patient 1, 3E10 vg/eye).

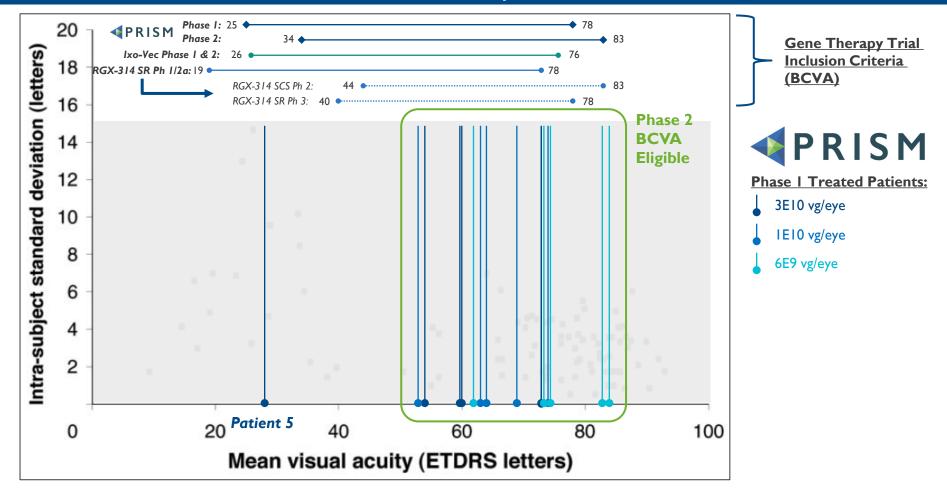
BCVA Intra-Patient Variability in Context: Rationale for BCVA Supplemental Injection Criteria



I. Patel, Praveen J et al. Investigative ophthalmology & visual science vol. 49,10 (2008): 4347-52. BCVA, Best-Corrected visual acuity; SD, Standard Deviation.

14 of 15 PRISM Patients in Typical Phase 2/3 Range; I Extreme Outlier (Low)

Individual PRISM Phase I Patients' Baseline Visual Acuity and Selected GT Trial Enrollment Criteria



I. Patel, Praveen J et al. Investigative ophthalmology & visual science vol. 49,10 (2008): 4347-52. BCVA, Best-Corrected visual acuity; SD, Standard Deviation.

\mathbf{A} PRISM

Interim Efficacy Data Analysis: 3E10 High Dose Patients

HIGH ANTI-VEGF NEED PATIENTS; ONE TOO ADVANCED FOR PHASE 2 OR PLANNED 3 ELIGIBILITY

- All patients advanced & high anti-VEGF need (mean annualized injections 11; up to 13)
- 4 of 5 patients Phase 2 BCVA-eligible: range 52-73
- Patient 5 not Phase 2 BCVA-eligible: 28 letters (extreme outlier)
 - Treatment eye pre-study history:
 - Legally blind; BCVA highly variable (~20/400 or ~21 letters to "counting fingers at 4 feet" or 0 letters)
 - Cataract & glaucoma both eyes

• Treated eye on trial: multiple wAMD-independent factors affecting BCVA

- Cataract (not 4D-150-related) NSC (nuclear sclerotic) at baseline, development of PSC (posterior subcapsular) at week 16
- Continued BCVA highly variable; ~15 letter swings up & down on consecutive visits

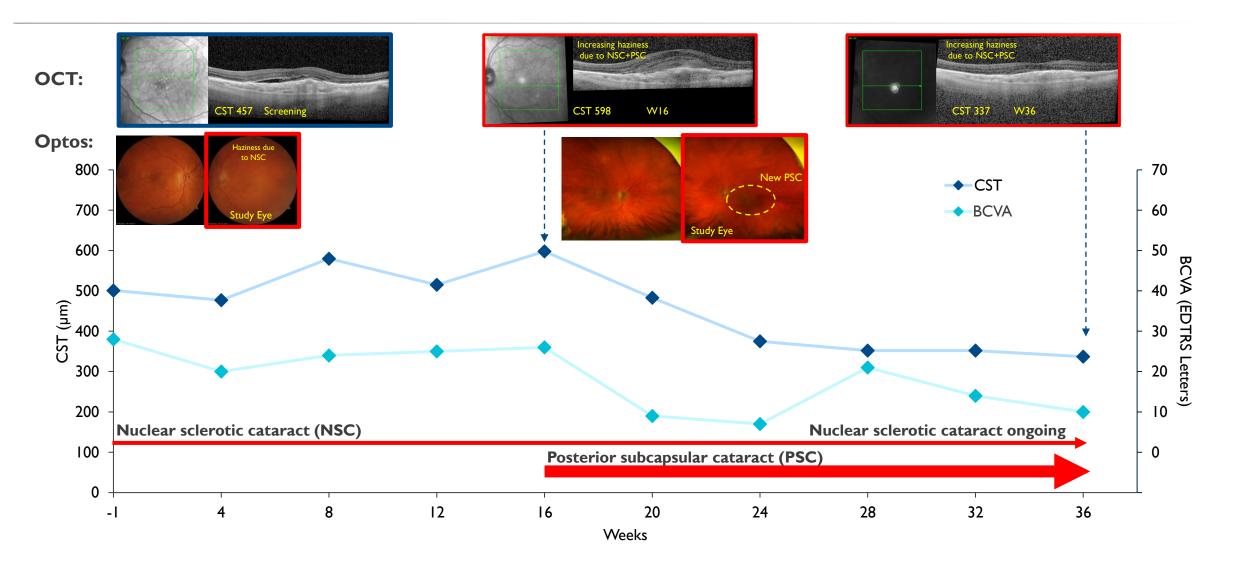
• No evidence of toxicity

- Clinically (per investigator)
- Imaging: Independent assessments including by central reading center (OCT, fluorescein angiography)

VEGF, vascular endothelial growth factor; BCVA, Best-Corrected visual acuity; CST, Central Subfield Thickness.

\mathbf{A} PRISM

3E10 vg/eye Cohort Patient 5 Response Not Evaluable Due to Progressive Cataract



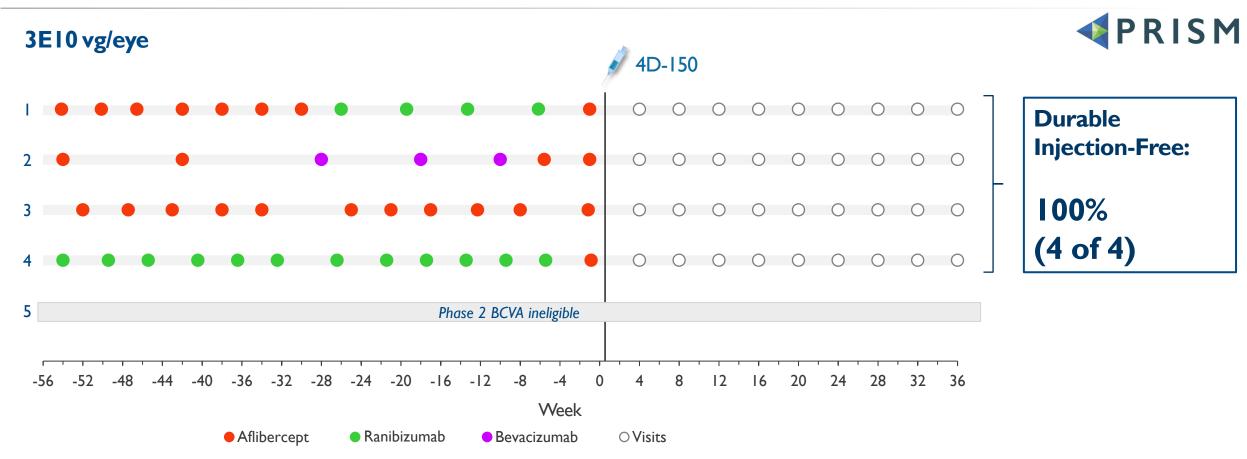
Interim Efficacy Data: 3E10 High Dose Patients Ph 2 Eligible BCVA 100% INJECTION-FREE (4 OF 4) IN PATIENTS WITH PHASE 2 ELIGIBLE BCVA



- Follow-up 36 weeks (n=4)
- All advanced & high anti-VEGF need (mean annualized injection freq 10; max 13)
- I00% of patients anti-VEGF injection-free (4 of 4)
- Mean CST improved: 74 μm
- BCVA maintained: +5, +1, 0 & -3*

Data cutoff date, April 3, 2023. *Last evaluable timepoint. VEGF, vascular endothelial growth factor; BCVA, Best-Corrected visual acuity; CST, Central Subfield Thickness.

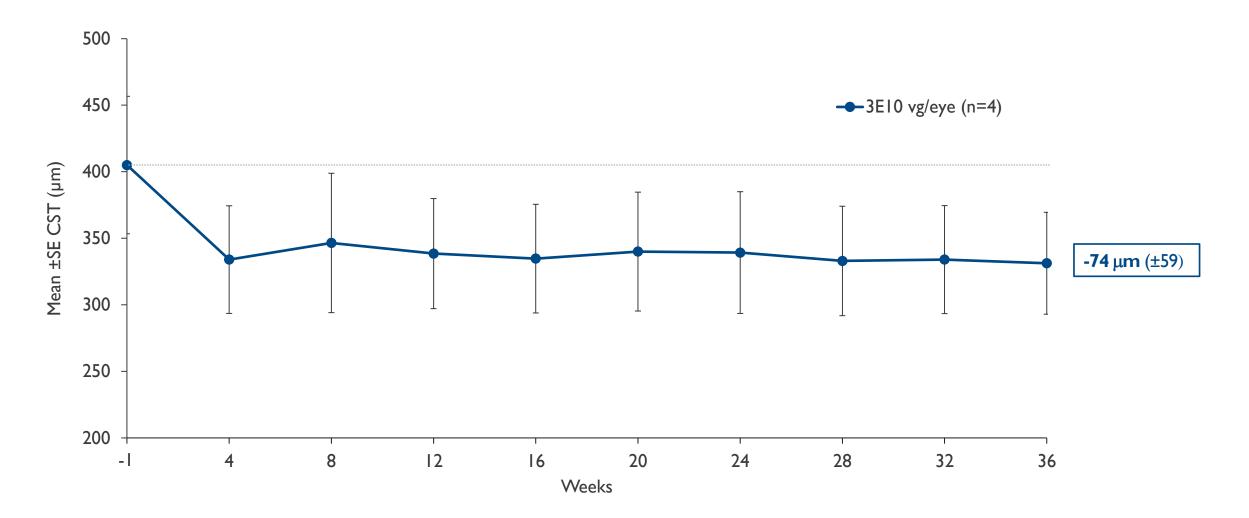
Anti-VEGF Injection Data: 3E10 High Dose Cohort Ph 2 Eligible BCVA 4 OF 4 INJECTION-FREE PATIENTS AT 36 WEEKS



Data cutoff, April 3, 2023. VEGF, vascular endothelial growth factor.

Mean CST Improved Overall Through 36 Weeks: 3E10 Injection-Free

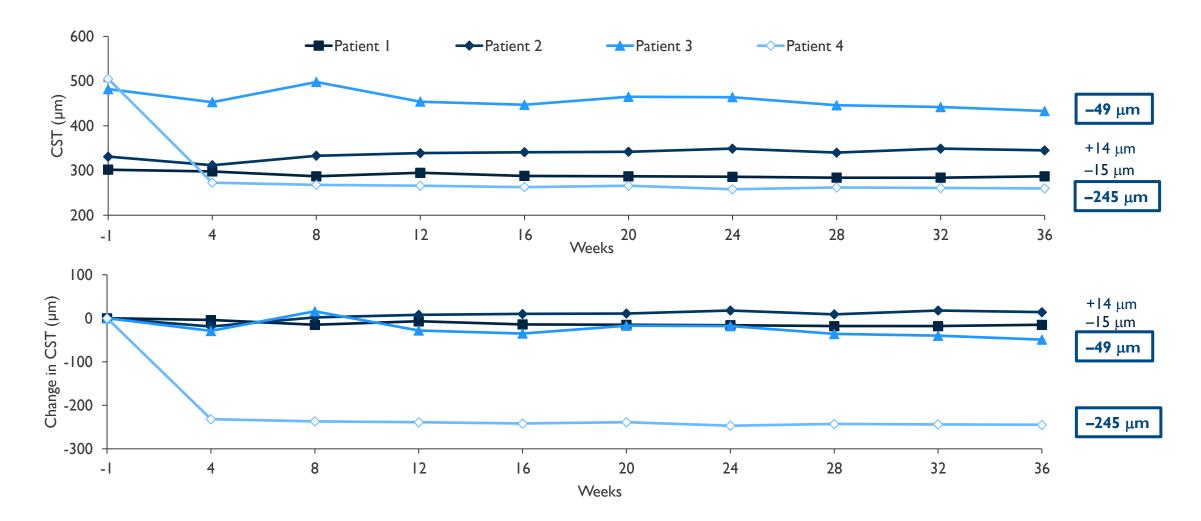
MEAN IMPROVEMENT OVER TIME IN ADVANCED PATIENTS WHO WERE INJECTION-FREE



Data cutoff date, April 3, 2023. CST, Central Subfield Thickness; SE, standard error.

CST Improved or Stable Through 36 Weeks: 3E10 Injection-Free

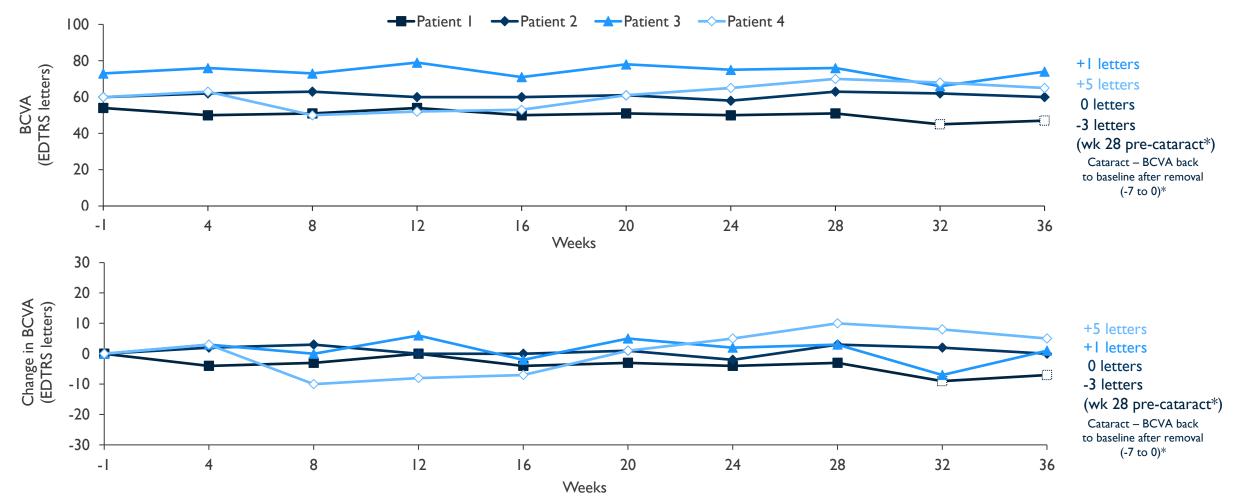
IMPROVEMENT OR MAINTENANCE OVER TIME IN ADVANCED PATIENTS WHO WERE INJECTION-FREE



Data cutoff date, April 3, 2023. CST, Central Subfield Thickness.

BCVA Maintained Through 36 Weeks: 3E10 Injection-Free

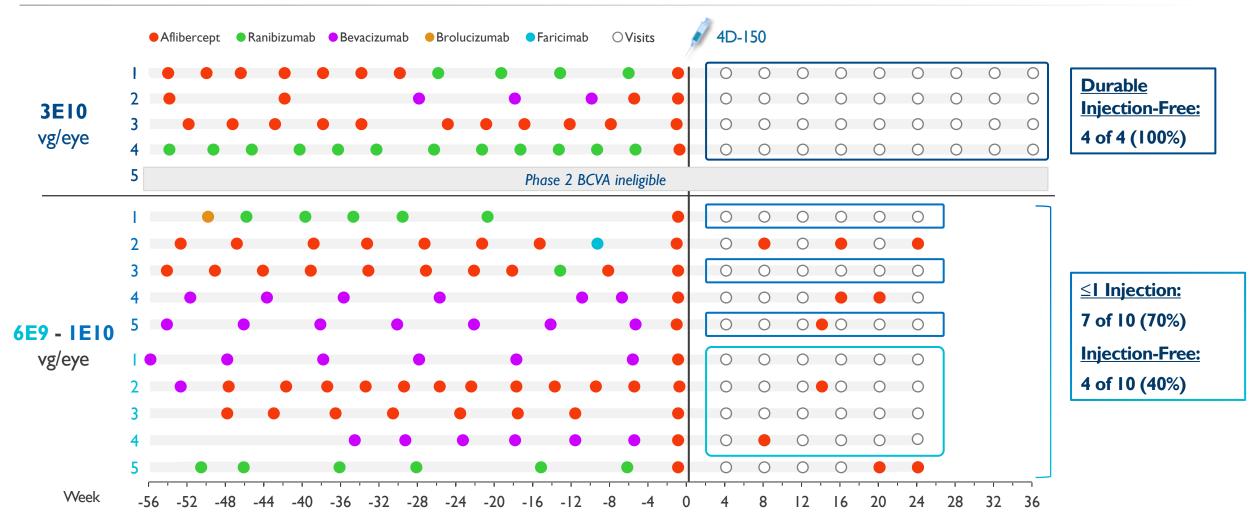
MAINTENANCE OVER TIME IN ADVANCED PATIENTS WHO WERE INJECTION-FREE



Data cutoff date, April 3, 2023. *Worsening cataract removed at 53 weeks; wk 36 with cataract -7 from baseline; BCVA zero change from baseline post-removal of cataract; BCVA, Best-Corrected visual acuity; ETDRS, Early Treatment Diabetic Retinopathy Study.

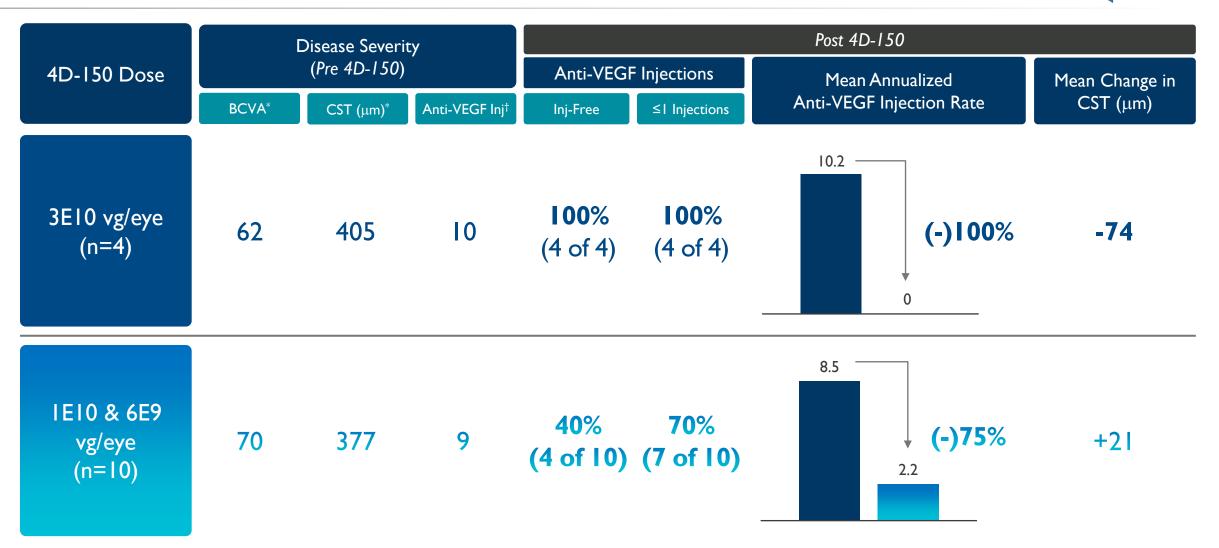
Anti-VEGF Injections at 24-36 Weeks: Ph2 BCVA-Eligible

4 OF 4 (100%) INJECTION-FREE AT HIGHEST DOSE (3E10) IN HEAVILY ANTI-VEGF DEPENDENT PATIENTS



Data cutoff date, April 3, 2023. VEGF, vascular endothelial growth factor; BCVA, Best-Corrected visual acuity. Anti-VEGF injection criteria: Loss of ≥10 letters from baseline in BCVA attributable to intraretinal or subretinal fluid; increase in CST >75 µm from baseline, confirmed by central reading center; presence of new vision-threatening hemorrhage due to wet AMD as determined by investigator.

Clinical Activity at 24 Weeks (Ph 2 BCVA-Eligible): High & Lower Doses Active DOSE RESPONSE; 3E10 DOSE GROUP: MOST SEVERE DISEASE & 100% INJECTION-FREE **PRISM**



Data cutoff, April 3, 2023. *Mean value. †Mean annualized anti-VEGF injection rate prior to administration of 4D-150. BCVA, best corrected visual acuity; CST, central subfield thickness; VEGF, vascular endothelial growth factor.

PRISM

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4D-150 Clinical Development: Planned Next Steps

WET AMD & DIABETIC MACULAR EDEMA

PRISM Phase 2 Cohorts: Wet AMD

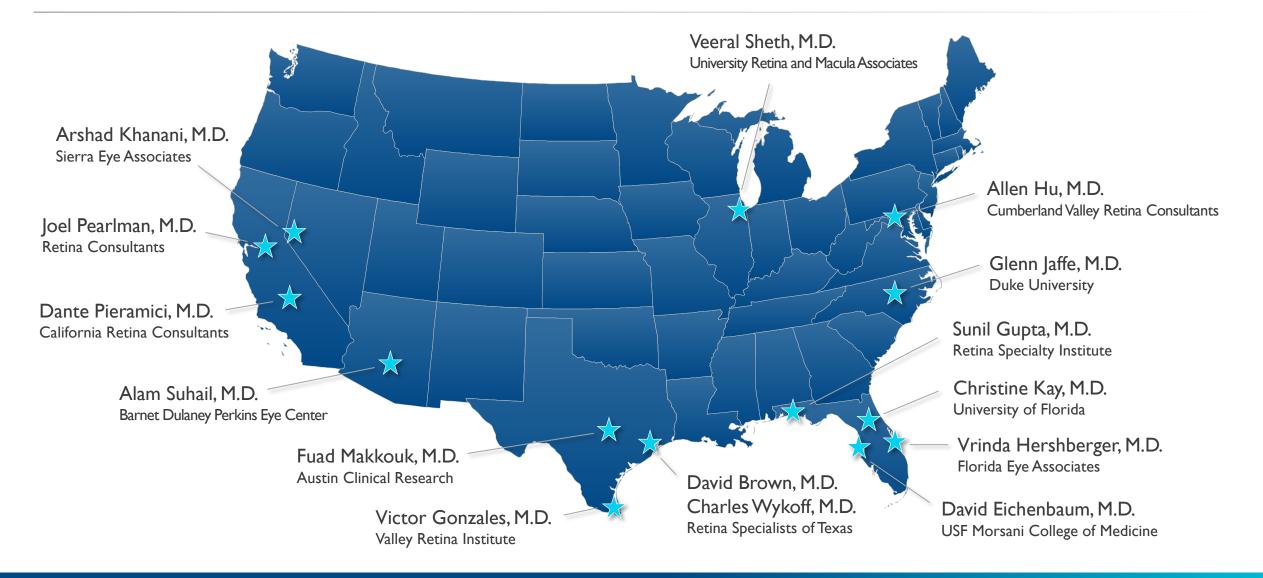
- Complete randomized Phase 2 Dose Expansion (N=50): target Q3
 - **>50% enrolled**; 3E10 vg/eye, 1E10 vg/eye, aflibercept 2 mg (2:2:1)
- Phase 2 clinical data release: target HI 2024
- Phase 3 discussion with FDA: target Q4 2023



- **IND open for** randomized Phase 2 trial (N=54)
- First patient enrolled: targeted for Q3 2023
- Initial Phase 2 data: targeted for 2024

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Acknowledgments





THANKYOU

5858 Horton Street, Suite 455 Emeryville, California 94608 (510) 505-2680 | info@4DMT.com 4DMT.com