

Efficacy and Safety of Intravitreal Injections of ANX007 in Patients With Geographic Atrophy: Results of the ARCHER Study

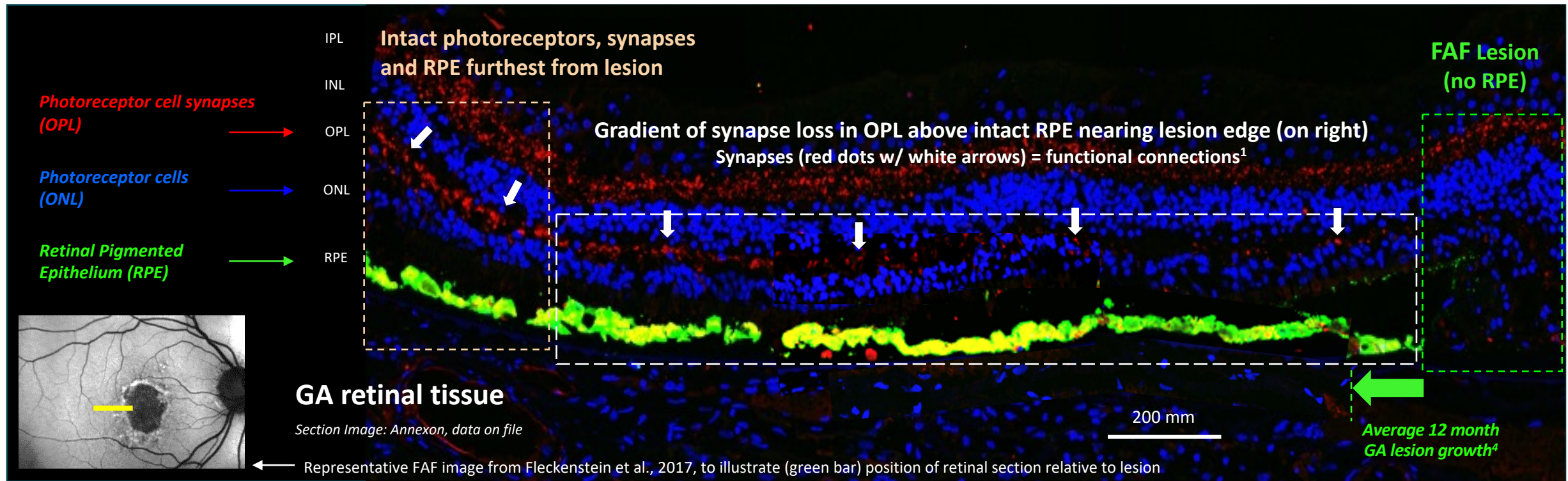
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Disclosures

- Dr. Heier is a consultant for 4DMT, Abpro, Adverum, Affamed, AGTC, Akouos, Alzheon, **Annexon**, Apellis, Asclepix, Aviceda, B&L, Biovisics, Boehringer Ingelheim, Curacle, Daiichi Sankyo, Exegenesis, Genentech/Roche, Glaukos, Gyroscope, Immunogen, IvericBio, Janssen R&D, jCyte, Kriya, Nanoscope, NGM, Notal, Novartis, Ocular Therapeutix, Ocuphire, OcuTerra, OliX, ONL Therapeutics, Outlook TX, Perceive Biotx, Ray Tx, Regeneron, Regenxbio, RetinAI, Sanofi, Stealth Biotx, Thea, Unity Bio and Vanotech.
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- Dr. Heier is a member of the Board of Directors of Ocular Therapeutix.
- Dr. Heier holds equity in Adverum, Aldeyra, Allegro, Aviceda, DTx Pharma, jCyte, Ocuphire, Ocular Therapeutix, RevOpsis, Vinci, and Vitranu.
- Study funded by Annexon Biosciences.

Photoreceptor Cells, Synapses & Function Lost Prior to RPE in GA

- Photoreceptor cells and their synapses are lost over intact RPE (white box)
 - Decreasing gradient of **red-labeled photoreceptor synapses** moving toward the lesion on right - loss of synapses is loss of function¹
 - Also, decreasing gradient of **blue-labeled photoreceptor cells** toward lesion – photoreceptors are lost prior to RPE²
- FAF measures RPE loss/lesion growth, but not photoreceptor or synapse / cell loss and correlates poorly w/ visual function³

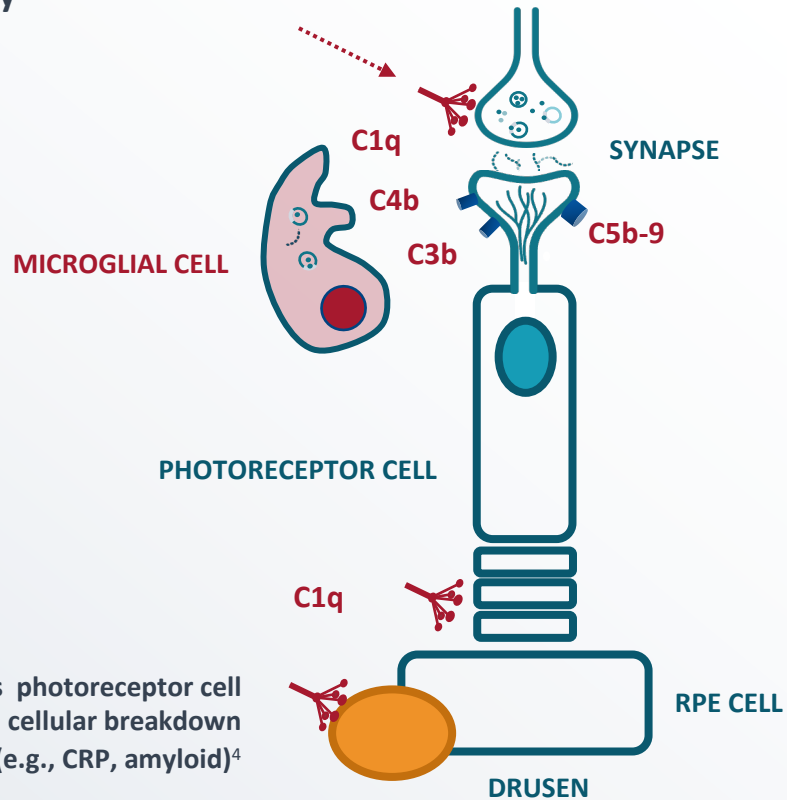


¹Selkoe, 2002 doi: 10.1126/science.1074069; Burger, et al., doi.org/10.1016/j.ydbio.2021.04.001; ²Bird et al., 2014 *JAMA Ophthalmol* doi:10.1001/jamaophthalmol.2013.5799; Li, et al., 2018 *Retina* 38:1937; Pfau, et al., 2020 10.1001/jamaophthalmol.2020.2914; Sarks, et al., 1988 *Eye* 2:552; ³Heier, et al., 2020 *Ophthalmology Retina* 4:673; ⁴Shen, et al., 2020 *Ophthalmol Retina* 4:899

Anti-C1q: A Distinct Neuroprotective Mechanism

C1q initiates classical complement cascade to drive photoreceptor synapse & cell loss and neuroinflammation

C1q binds stressed photoreceptor synapses and activates the classical pathway



In GA, **C1q** also binds photoreceptor cell outer segments, cellular breakdown products and drusen (e.g., CRP, amyloid)⁴

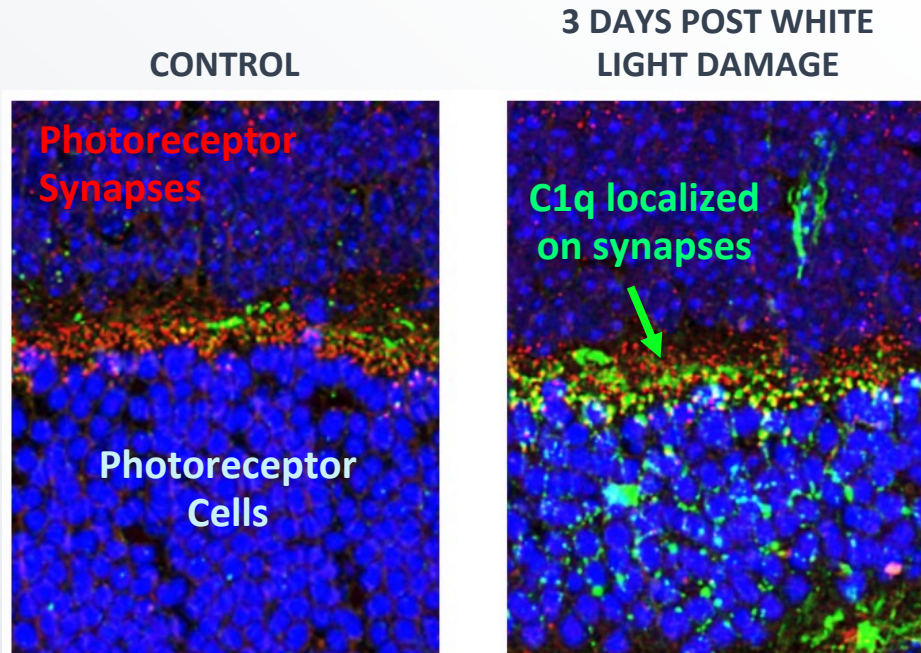
- C1q is a **key driver of neurodegeneration**¹
- C1q anchors classical pathway activation on **photoreceptor cells to cause inflammation and loss**²
- **ANX007 inhibits C1q** and all damaging components of the classical pathway³

¹Stevens, 2007, *Cell* **131**:1164; Howell, et al., 2011 *J Clin Invest.* **121**:1429; Schafer, et al., 2012 *Neuron* **74**: 691; Stephan et al., 2012 *Annu Rev Neurosci* **35**:369; Hong, et al., 2016 *Science.* **352**:712; Lui, et al., 2016 *Cell* **165**:921; Dejanovic, et al., 2018 *Neuron* **100**:1322; Vukojicic, et al., 2019, *Cell Rep.* **29**:3087; Williams, et al., 2016 *Mol Neurodegener* **11**:26; ²Tassoni, et al., SFN 2022; Annexon data on file; Jiao, et al., 2018 *Mol Neurodegener* **13**:45; Katschke, 2018 *Sci Rep.* **8**:7348. ³Lansita, et al., 2017 *International Journal of Toxicology*, **36**:449; ⁴Yednock, et al., 2022 *Int J Retina Vitreous* **8**:79

Anti-C1q Protected Photoreceptor Cells and Their Function in Models of Photoreceptor Damage

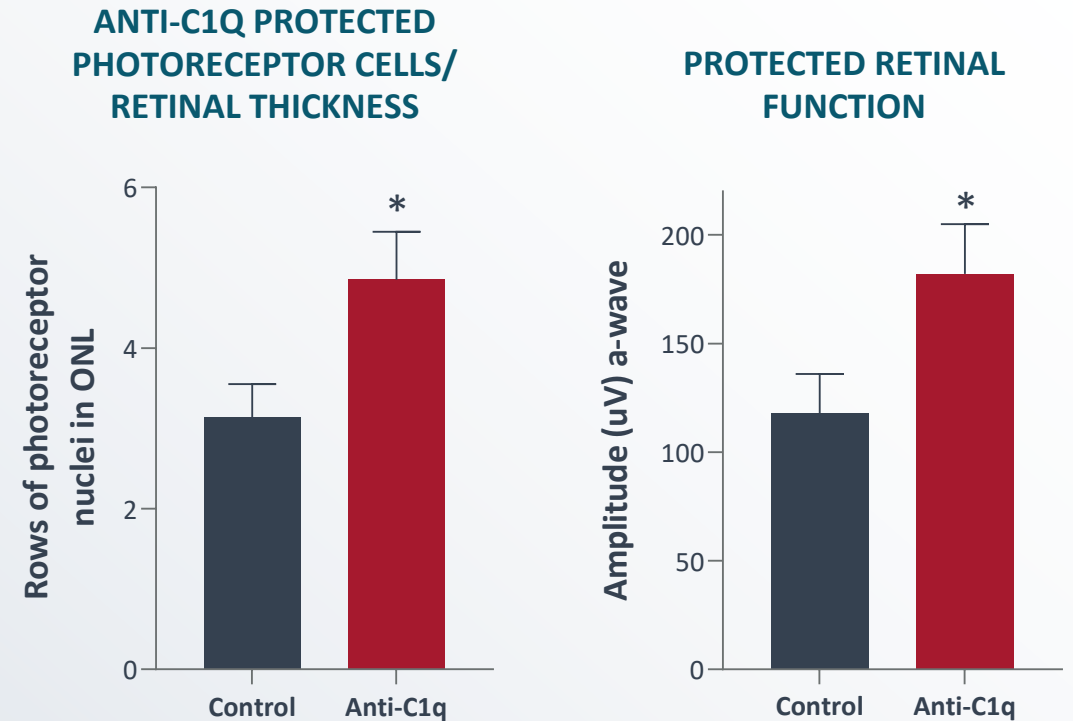


C1q Deposition on Photoreceptor Cells and Synapses with Light-Induced Damage



Annexon data on file

Anti-C1q Protected Photoreceptors and Function



Jiao, et al., 2018 *Mol Neurodegener* 13(1):45

ANX007: Differentiated Inhibitor of C1q and Classical Complement to Treat Geographic Atrophy

ANX007

IVT administered antigen-binding fragment (Fab)

KEY ATTRIBUTES

- ✓ **Design:** Modeled after established IVT administered Fab antibodies
- ✓ **Profile:** 50kD Fab antibody; low viscosity / non-pegylated; <10 pM potency formulated for intravitreal administration
- ✓ **Dosing:** 5 mg / 100 microliter. PK in patient aqueous humor supports monthly/every other month dosing
- ✓ **Specificity:** Full target engagement / inhibition of classical complement pathway observed; lectin and alternative pathway in place for immune and homeostatic functions¹

¹Sun, et al., 2023 Ophthalmol Sci 3(2):100290

ARCHER: Phase 2 Trial of C1q Inhibitor ANX007 in GA Patients

Randomized, double-masked
Included **foveal and non-foveal** lesions
Stratified for lesion location and lesion size
12 months (n=270)

Sham monthly or every other month
(n=89)

ANX007 5mg monthly (EM)
(n=89)

ANX007 5mg every other month (EOM)
(n=92)

PRIMARY BIOMARKER ENDPOINT

Change in GA lesion area as assessed by fundus autofluorescence at Month 12

PRESPECIFIED SECONDARY FUNCTIONAL ENDPOINTS

Best Corrected Visual Acuity (BCVA)
Low Luminance Visual Acuity (LLVA) & Deficit (LLVD)

Off-treatment
(6 months)

END OF STUDY
Month 18

Patient Demographics and Study Eye Characteristics Generally Well-Balanced Across Groups

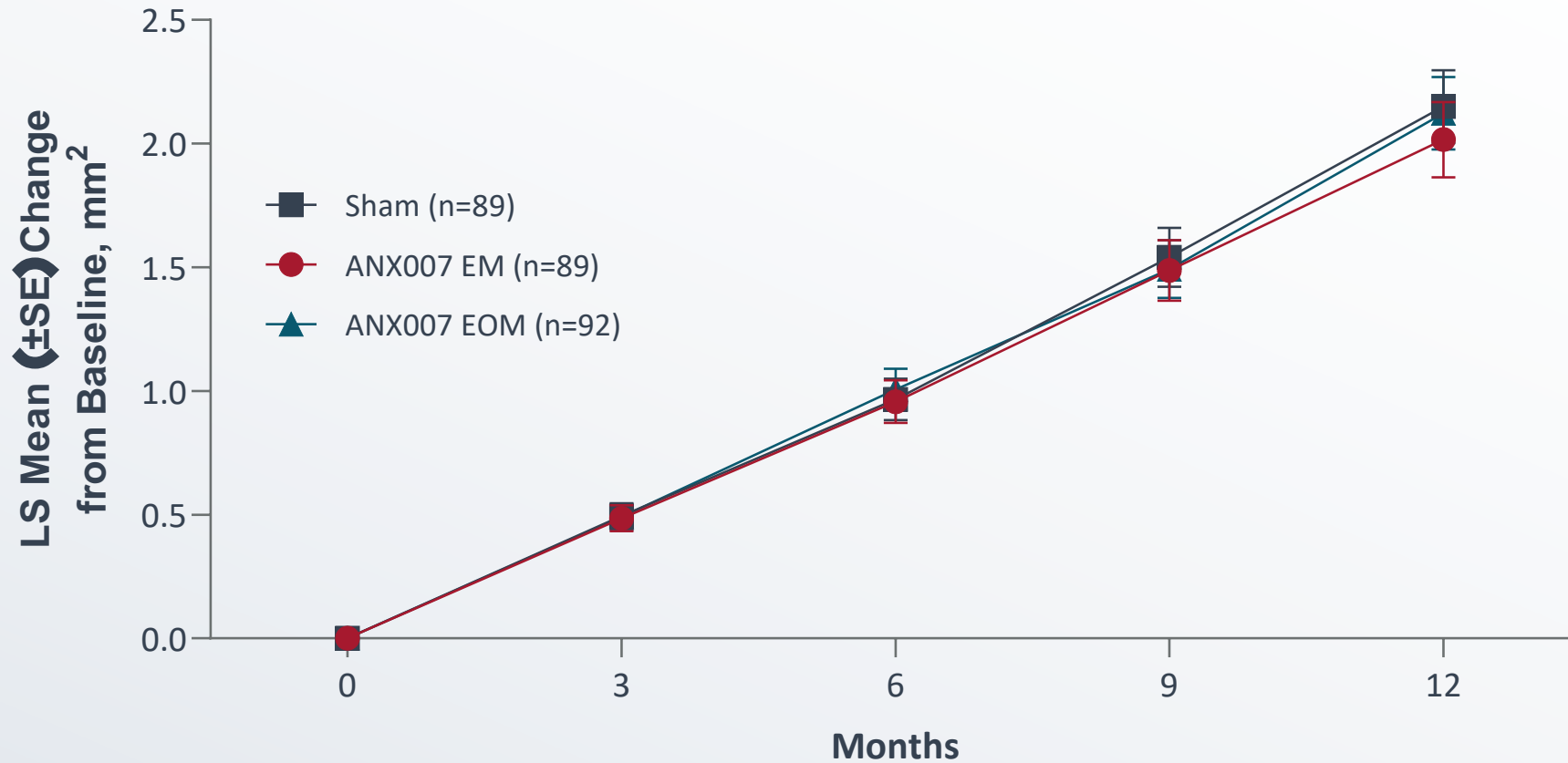
CHARACTERISTIC	SHAM POOLED (N=89)	ANX007 EM (N=89)	ANX007 EOM (N=92)
Age, mean (SD)	79.8 (7.49)	79.7 (8.64)	80.5 (8.53)
Female, n (%)	59 (66.3%)	47 (52.8%)	60 (65.2%)
Caucasian, n (%)	87 (97.8%)	87 (97.8%)	89 (96.7%)
Mean BCVA, mean (SD)	58.5 (16.2)	58.8 (17.2)	58.3 (15.0)
Foveal Lesion	49.4%	57.3%	53.3%
GA Lesion Size (mm ²), mean (SD)	7.28 (3.99)	7.28 (3.96)	7.53 (4.10)
GA Lesion < 7.5 mm ²	61.8%	58.4%	57.6%
Fellow Eye CNV	22.5%	24.7%	17.4%
Multifocality, n (%)	65 (73.0%)	61 (68.5%)	67 (72.8%)

Discontinuations Consistent with Previous GA Studies

	SHAM (N=89)	EM (N=89)	EOM (N=92)
Discontinued treatment	10 (11.2%)	13 (14.6%)	11 (12.0%)
Withdrawal by subject			
Unrelated health issues	2	1	2
Moved / travel / time	1	2	2
Personal reasons / no reason given	2	3	2
Other	1	2	---
Death	2	2	3
Lost to follow-up	1	2	2
Physician decision	1	1	---

ANX007 Did Not Significantly Reduce Lesion Area, a Surrogate Biomarker of Functional Change in GA

GA LESION AREA CHANGE FROM BASELINE TO MONTH 12⁺

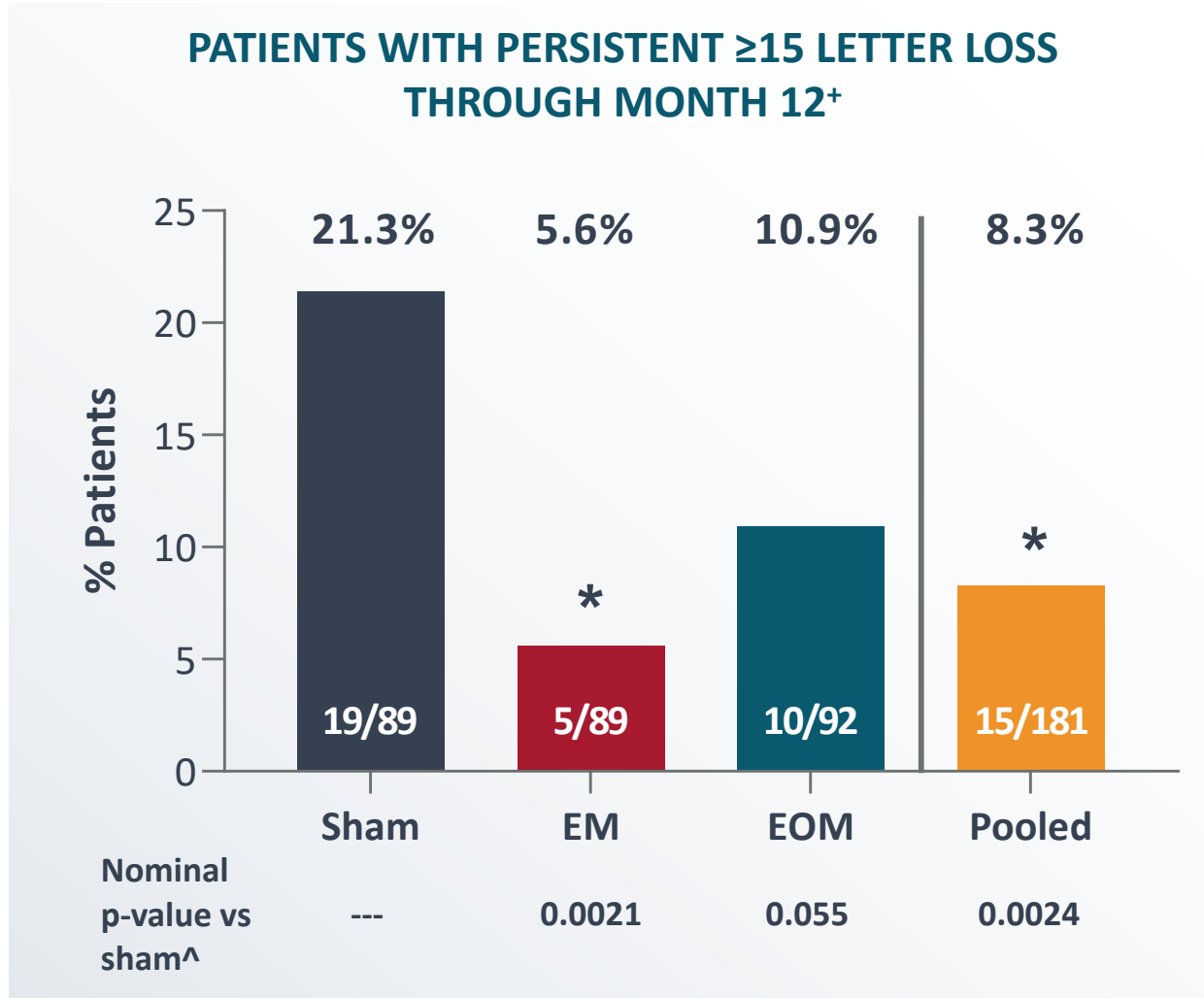


GA Area Change from Baseline at 12 Month

Arm	mm ²	%	p-value
Sham	2.15	---	---
EM [^]	2.02	-6.2%	0.526
EOM [^]	2.12	-1.3%	0.896

[^]2-arm MMRM model

Prespecified Secondary Endpoint (BCVA): ANX007 Demonstrated Significant, Dose-Dependent Protection From Vision Loss



- Dose-dependent response
- 15 letter loss clinically meaningful
- Widely-accepted endpoint

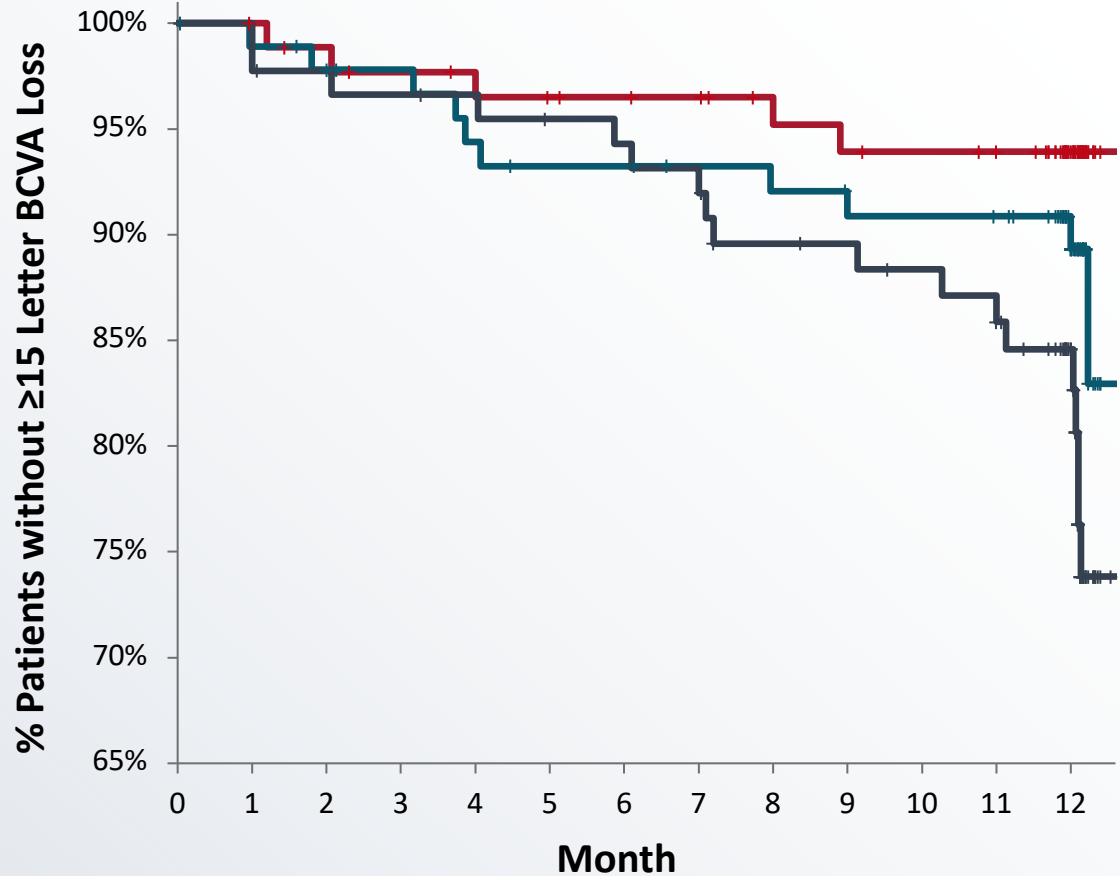
⁺Persistent for two consecutive visits through month 12 or at last visit

[^]Nominal p-value from a Chi-square test in ITT population

* Nominal P < 0.05

Significant, Time-Dependent Protection From ≥ 15 Letter Vision Loss with ANX007 Monthly Treatment

≥ 15 LETTER BCVA LOSS AT 2 CONSECUTIVE VISITS THROUGH MONTH 12 OR LAST VISIT



EM (n=89)

72% Risk Reduction ANX007 EM

HR (CI) = 0.28 (0.11 to 0.76)
p = 0.006

EOM (n=92)

48% Risk Reduction ANX007 EOM

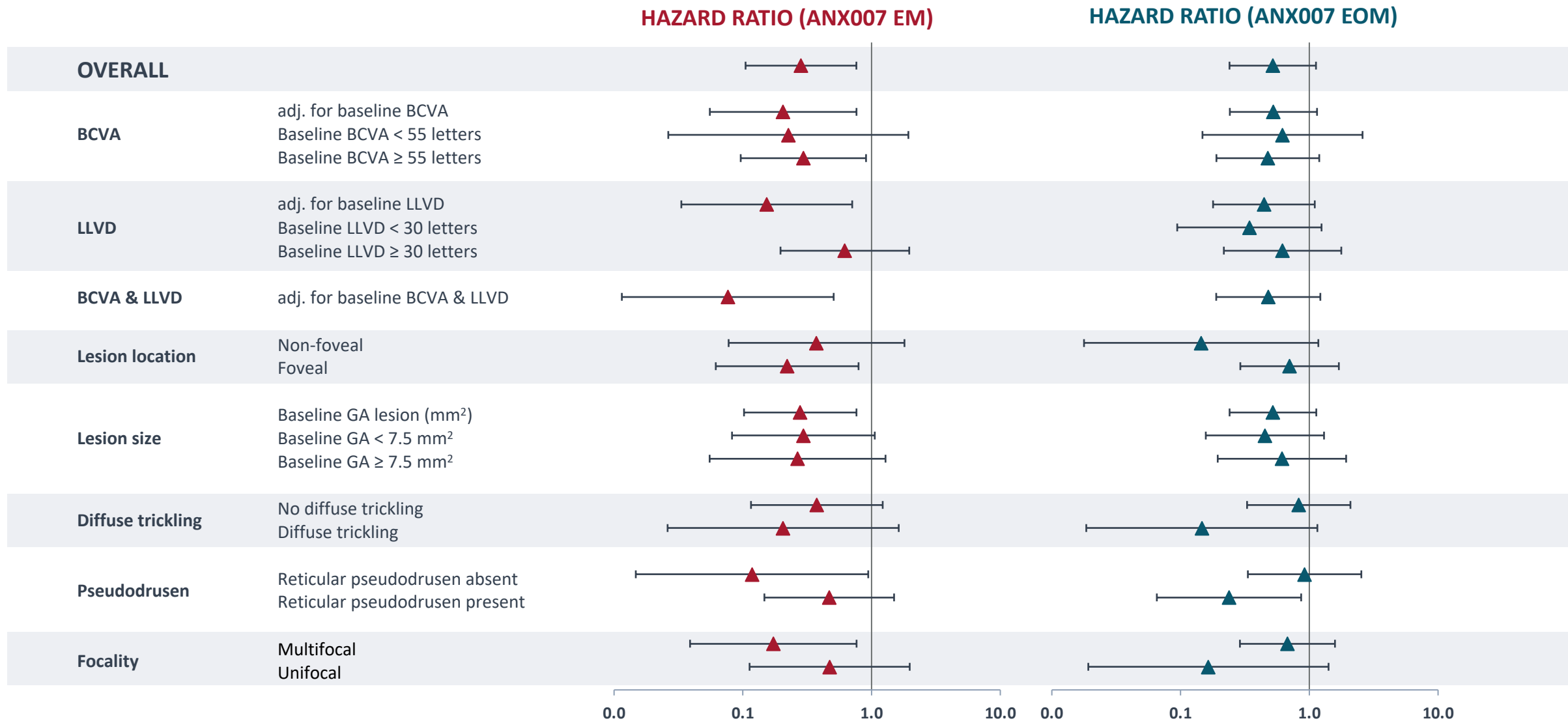
HR (CI) = 0.52 (0.24 to 1.13)
p = 0.064

Sham (n=89)

Sensitivity analysis confirmed treatment effect:

Significant 66% reduction in risk in EM group when excluding patients with vision loss only at month 12

ANX007 Protection from Vision Loss Consistent Across Baseline Characteristics

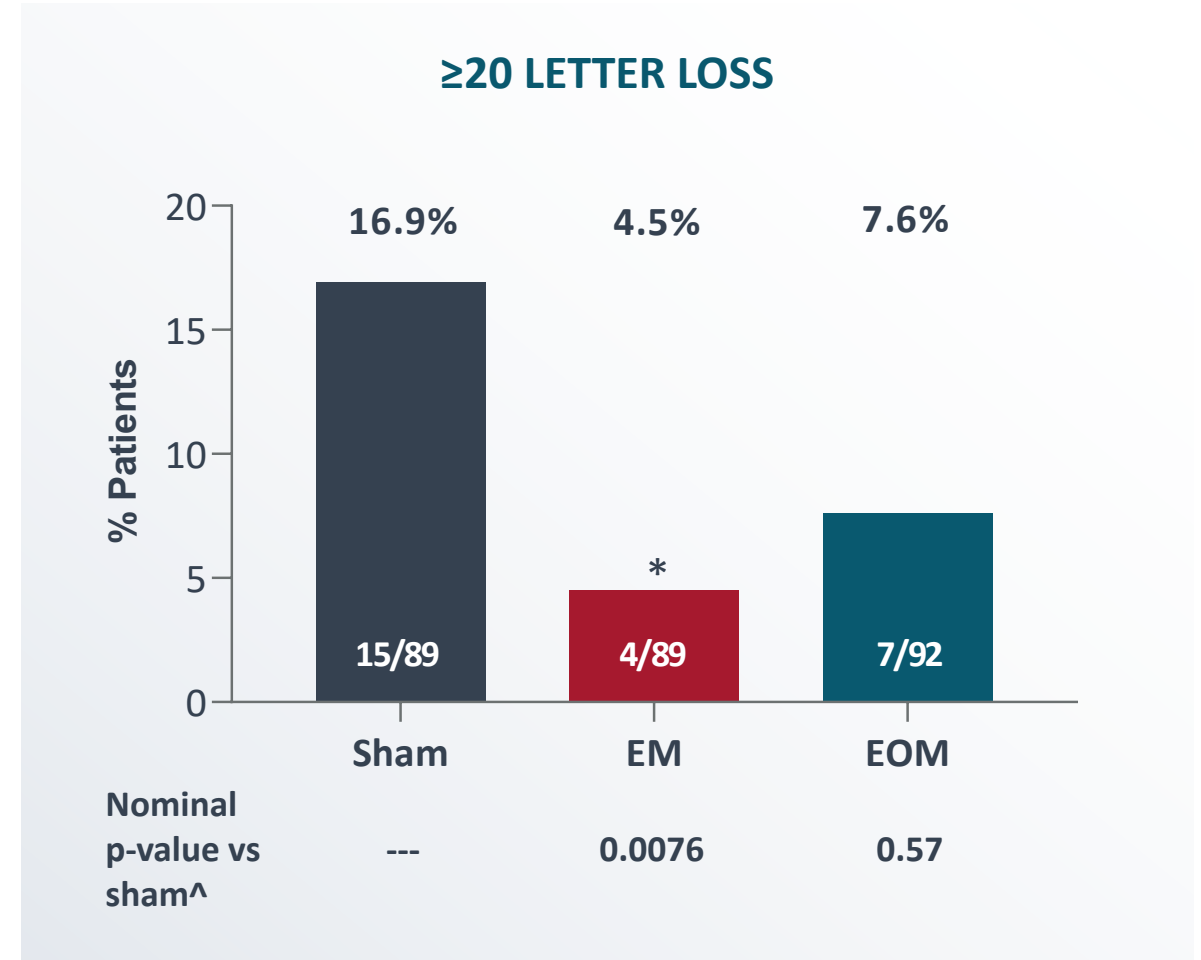


*persistent for two consecutive visits through month 12 or at last visit; Hazard ratios are from Cox regressions accounting for event time and censorship

NOTE: Hazard ratio not estimated for ANX007 EM vs Sham with baseline LLVD < 30 due to zero (0) event in ANX007 EM group for the subgroup.

Consistent Protection from Vision Loss with BCVA ≥ 10 and ≥ 20 Letter Assessments

Persistent BCVA Vision Loss Through Month 12⁺

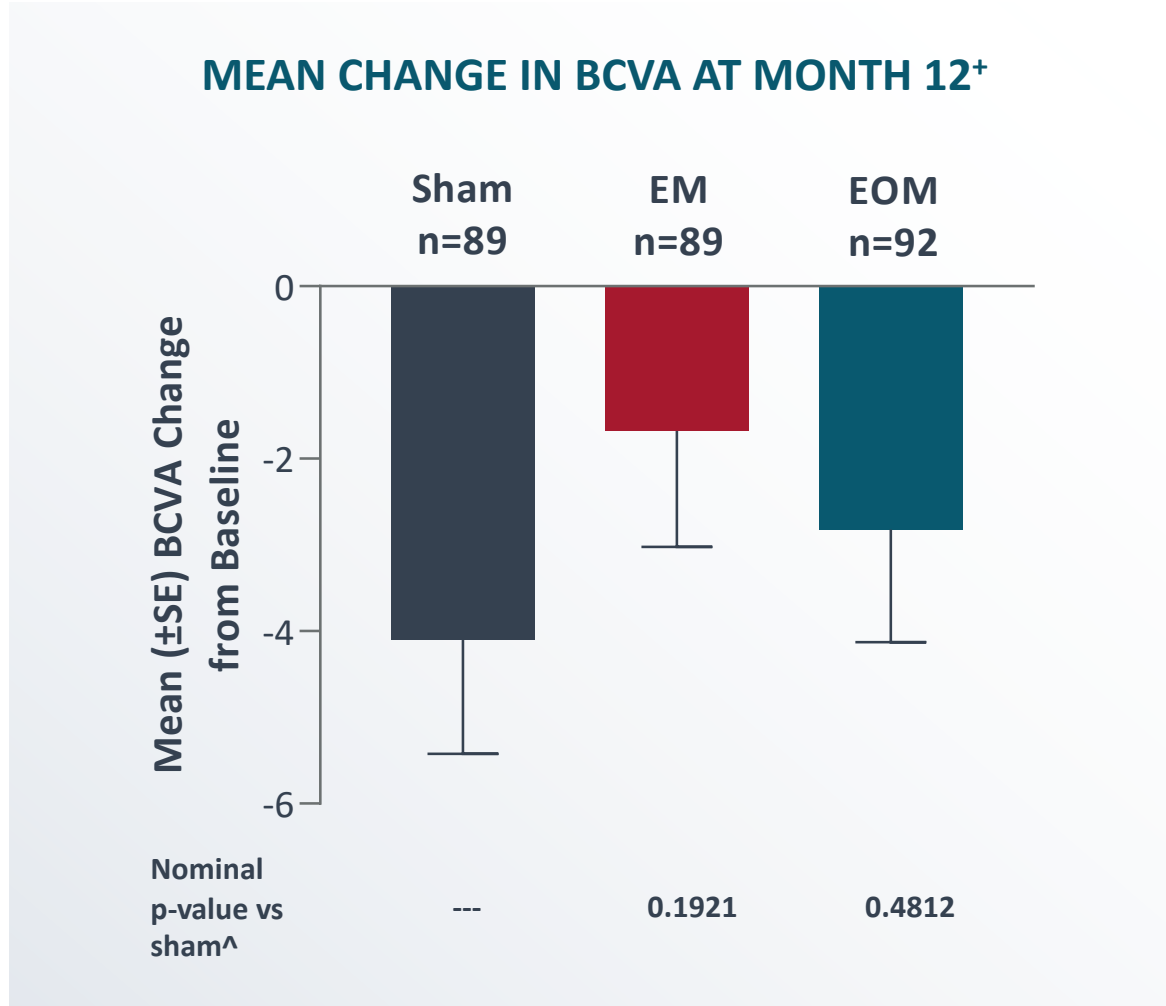


^{*}Persistent for two consecutive visits through month 12 or at last visit

[^]Nominal p-value from a Chi-square test in ITT population

* P < 0.05

Mean Change in BCVA at Month 12 Further Supports Consistent Protection From Vision Loss with ANX007 Treatment



- Trend for dose-dependent response in ANX007 treated groups
- BCVA loss in sham through 12 months consistent with previous GA trials^{1,2,3,4}

*Mean, standard error (SE), and p-value based on MMRM adjusting for baseline lesion location, lesion focality, baseline GA lesion, and the baseline GA lesion by visit interaction.

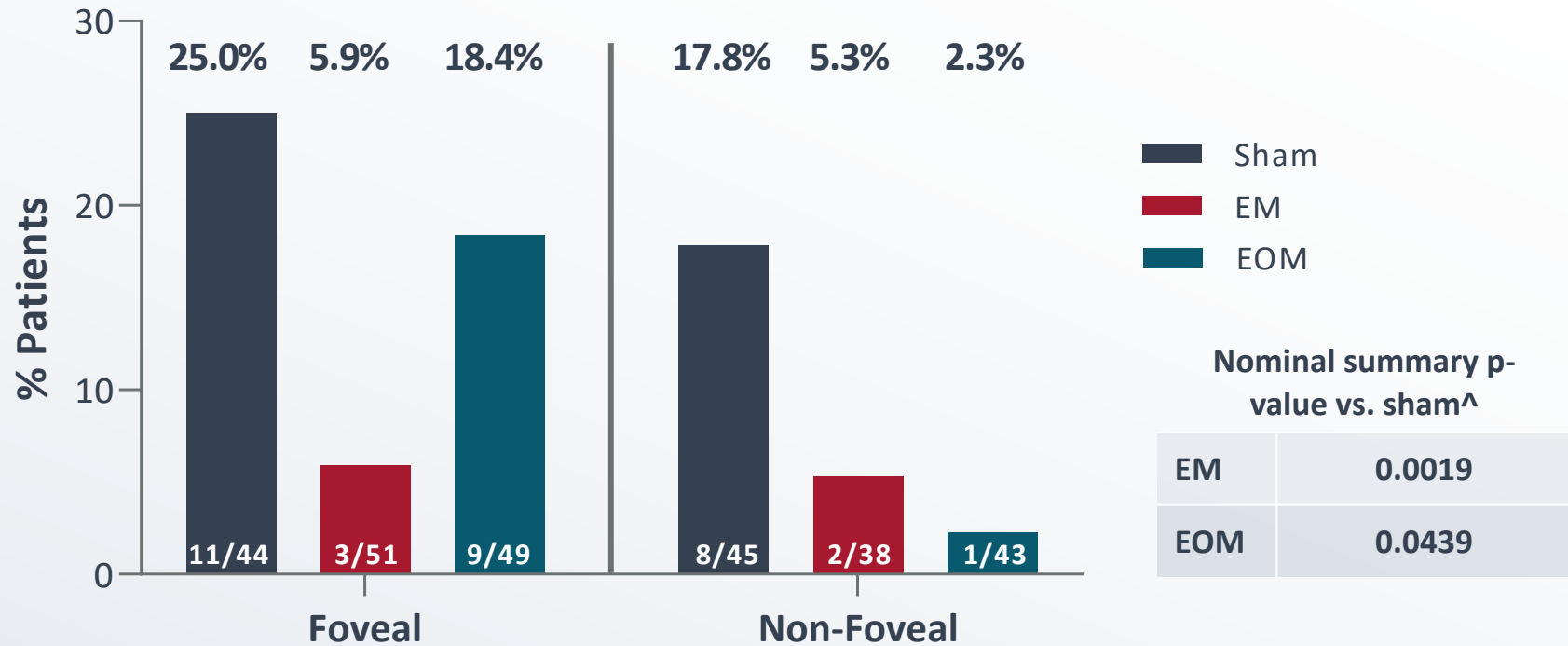
[^]Nominal p-value from MMRM adjusting for baseline lesion location, lesion focality, baseline GA lesion, and the baseline GA lesion by visit interaction in ITT population

¹Liao et al (2020) *Ophthalmology* 127: 186-195; ²Holtz et al (2018) *JAMA Ophthalmology* 136:666-677;

³Jaffee et al (2021) *Ophthalmology* 128:576-586; ⁴Heier et al, *Retina Society* 2022

ANX007 BCVA Subgroup Analysis: Protection from Vision Loss in Foveal and Non-Foveal Patients

PATIENTS WITH PERSISTENT ≥ 15 LETTER LOSS THROUGH MONTH 12⁺

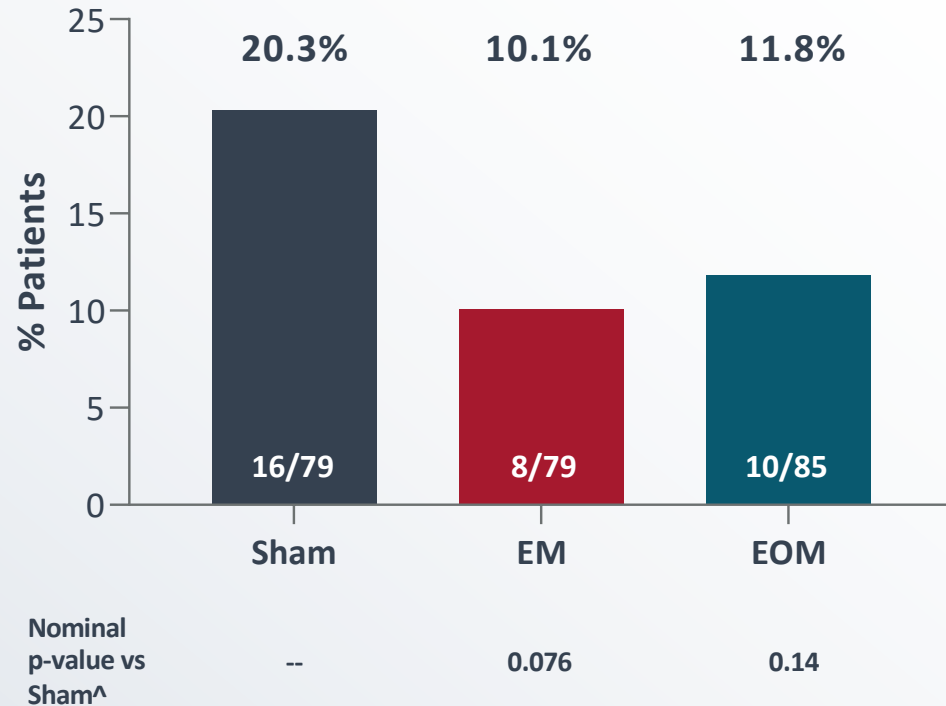


⁺Persistent for two consecutive visits at any time through month 12 or at last visit

[^]Nominal p-value from a Cochran Mantel-Haenszel test (General Association) in ITT population

Prespecified Secondary Analyses: ANX007 Provided Consistent Protection from Vision Loss on Additional Measures—LLVA & LLVD

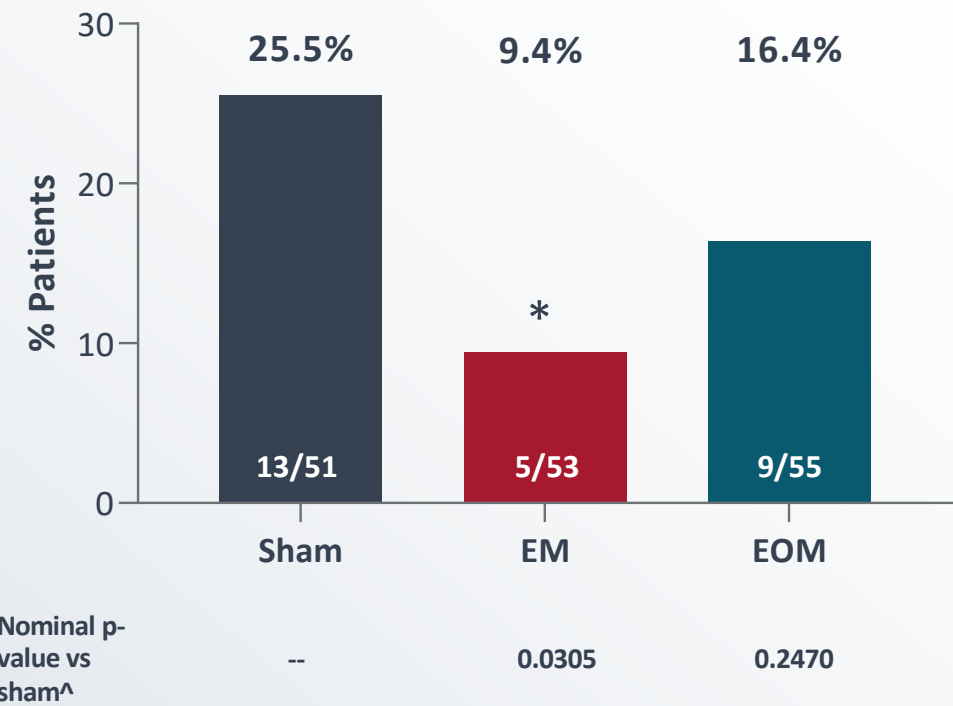
LLVA ≥ 15 LETTER LOSS THROUGH MONTH 12⁺[^]



*Patients with at least one post baseline LLVA measurement

[^]Nominal p-value from a Chi-square test

LLVD ≥ 15 LETTER WORSENING THROUGH MONTH 12⁺[^]



+in subjects with BCVA ≥ 55

[^]Nominal p-value from a Chi Square test

*p<0.05

ANX007 Generally Well-Tolerated

ADVERSE EVENTS OF SPECIAL INTEREST n (%)	SHAM (N=89)	ANX007 EM (N=89)	ANX007 EOM (N=92)
Choroidal Neovascularization	3 (3.4%)	4 (4.5%)	4 (4.3%)
Endophthalmitis	0	1 (1.1%)	2 (2.2%)
Retinal Vascular Occlusion	0	0	1 [^] (1.1%)
Retinal Vasculitis	0	0	0
Intraocular Inflammation ⁺	0	2 (2.2%)	1 (1.1%)
Ischemic Optic Neuropathy ⁺	0	0	0

INTRAOCULAR INFLAMMATION DETAILS* n

Iritis – 1

Resolved with topical steroids in 2 days
No Vasculitis

Vitritis – 1

Resolved with topical steroids in 9 days
No Vasculitis

Vitreous Debris – 1

KP on endothelium, prior treatment with topical steroids
No Vasculitis

*Event Verbatim term listed

[^]Isolated cilioretinal artery occlusion; reviewed by DSMC and reading center (masked)

⁺Not AESI, included because of current interest

ANX007: A Novel Neuroprotective Agent Demonstrating Benefit in Vision in ARCHER Trial

- **C1q inhibition: distinct neuroprotective MOA**
- **Consistent demonstration of visual function benefits**
 - Highly statistically significant on visual acuity endpoint
 - Dose and time dependent
 - Consistent across multiple prespecified measures of BCVA (10, 15, 20 letter loss)
 - Benefit in foveal and non-foveal patients
 - Benefit in additional prespecified measures of visual function (LLVA, LLVD)
- **A significant change in lesion area growth not seen through 12 months**
- **Generally well tolerated**
- **6 month follow up ongoing**
- **Planning for regulatory discussions and Phase 3**