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

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for the ARCHER Investigators

Disclosures

Financial disclosures:

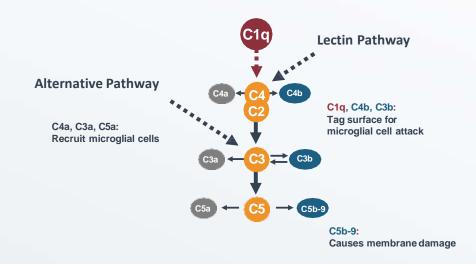
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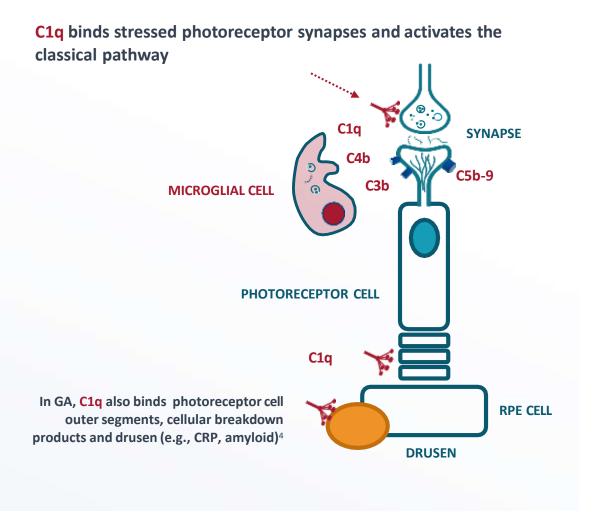
Study funded by Annexon Biosciences

Anti-C1q: A Distinct Neuroprotective Mechanism

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

- C1q is a key driver of neurodegeneration¹
- C1q anchors classical pathway activation on photoreceptor cells to cause inflammation and loss²
- ANX007 inhibits C1q and all damaging components of the classical pathway³





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

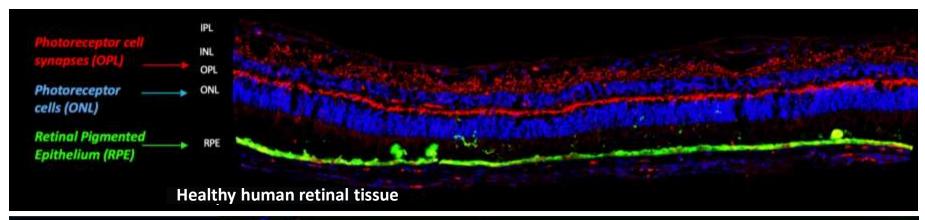
Blocking C1q protects photoreceptor cells and function upstream of RPE loss

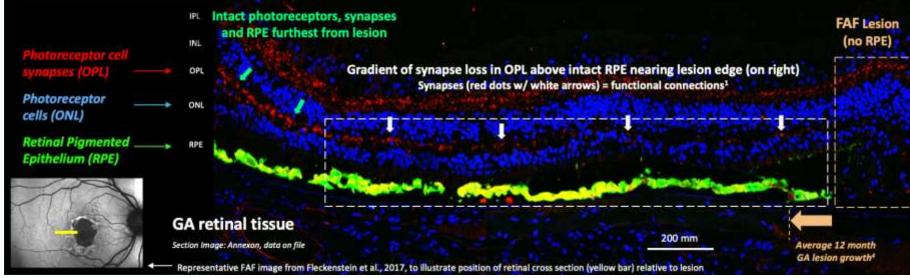
Healthy Human Retina (top)

 Uniform layer of photoreceptor synapses (red) and photoreceptor neurons (blue)

GA Patient Retina (Bottom)

- Decreasing gradient of synapses and neurons (within white box) moving right toward lesion
- Photoreceptors are lost prior to RPE¹
- Loss of synapses is loss of function²
- FAF lesion growth tracks RPE loss, not photoreceptors, and correlates poorly w/ visual function³





¹Bird 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; ²Selkoe, 2002 doi: 10.1126/science.1074069; Burger, et al., doi.org/10.1016/j.ydbio.2021.04.001; ³Heier, et al., 2020 Ophthalmology Retina **4**:673;

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

FDA Fast Track status and EMA PRIME Designation granted for ANX007

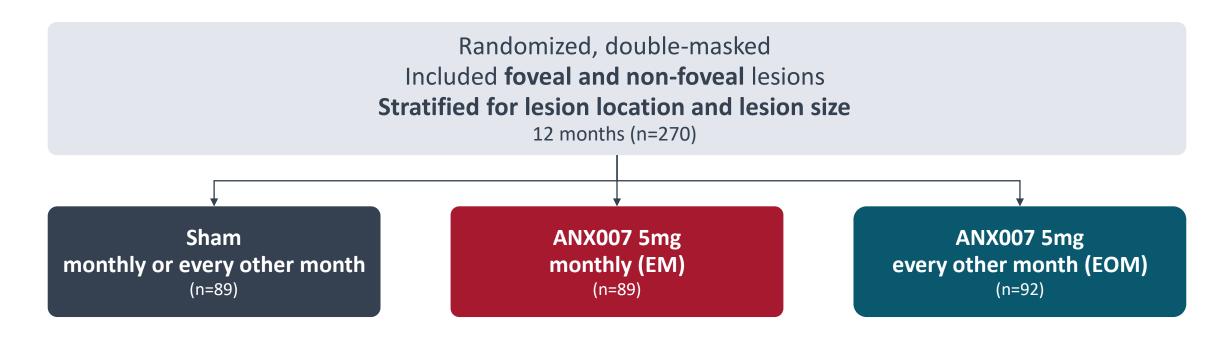
KEY ATTRIBUTES

- ✓ **Design:** Constant region framework modeled after established IVT administered Fab antibodies
- ✓ Profile: 50kD Fab antibody; low viscosity / non-pegylated; <10 pM potency formulated for intravitreal administration</p>
- ✓ 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; lectin and alternative pathways in place for immune and homeostatic functions¹

ANX007

IVT administered antigen-binding fragment (Fab)

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



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

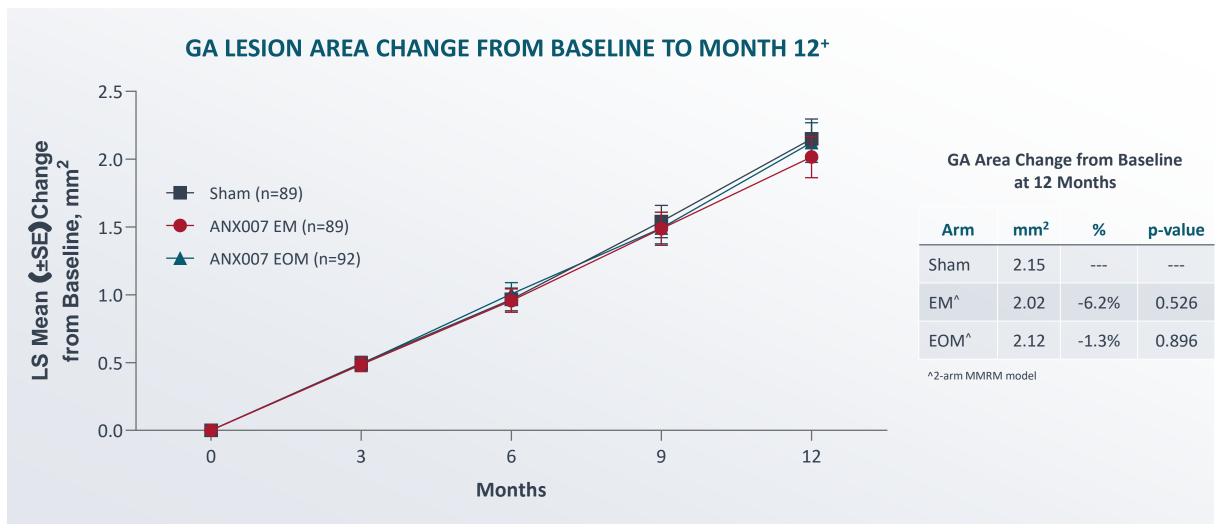
Patient Demographics and Study Eye Characteristics Generally Well-Balanced Across Groups

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%
Foveal Lesion GA Lesion Size (mm²), mean (SD)	49.4% 7.28 (3.99)	57.3% 7.28 (3.96)	53.3% 7.53 (4.10)
GA Lesion Size (mm²), mean (SD)	7.28 (3.99)	7.28 (3.96)	7.53 (4.10)

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



^{*}The least-square (LS) mean, its standard error (SE), and p-value are based on a mixed-effect model for repeated measures (MMRM) adjusting for baseline lesion location, lesion focality, baseline GA lesion, and the baseline GA lesion by visit interaction.

ANX007 Effect on Lesion Growth Improves with Longer Treatment

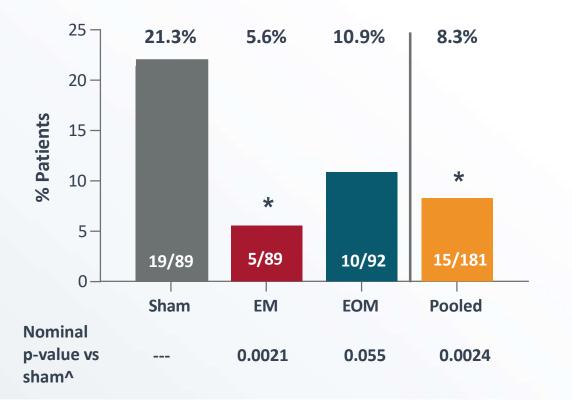


*The least-square (LS) mean and its standard error (SE) are based on a mixed-effect model for repeated measures (MMRM) adjusting for baseline lesion location, lesion focality, baseline GA lesion, and the baseline GA lesion by visit interaction

Increasing ANX007 Impact Over Time

ANX007 Demonstrated Statistically Significant Protection From Vision Loss as Measured by BCVA ≥15-Letter Loss

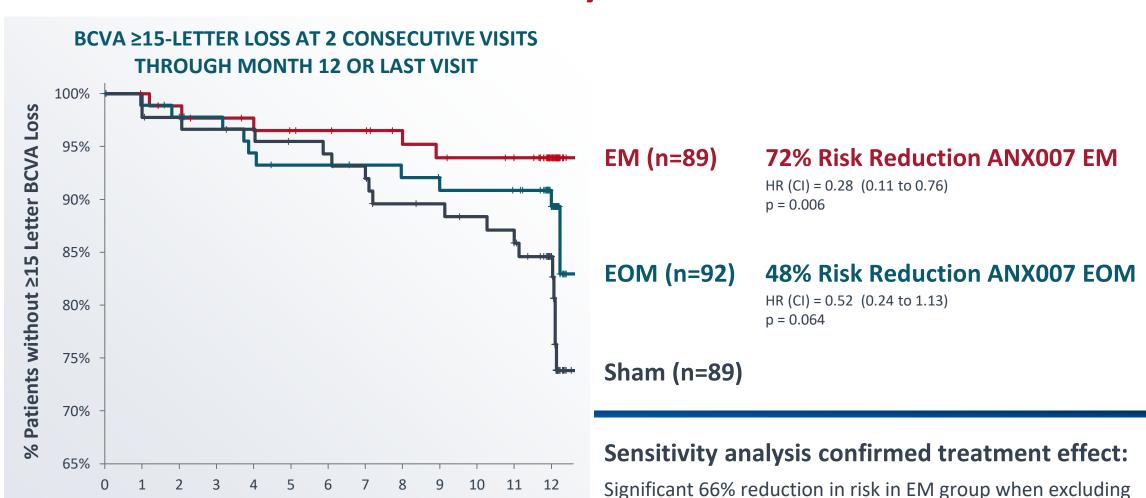
PATIENTS WITH PERSISTENT BCVA ≥15-LETTER LOSS THROUGH MONTH 12+



- ⁺Persistent for two consecutive visits through month 12 or at last visit
- ^Nominal p-value from a Chi-square test in ITT population
- * Nominal P < 0.05

- First known significant preservation of vision in GA
- Dose-dependent response informative
- BCVA ≥15-letter loss universally deemed clinically meaningful

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



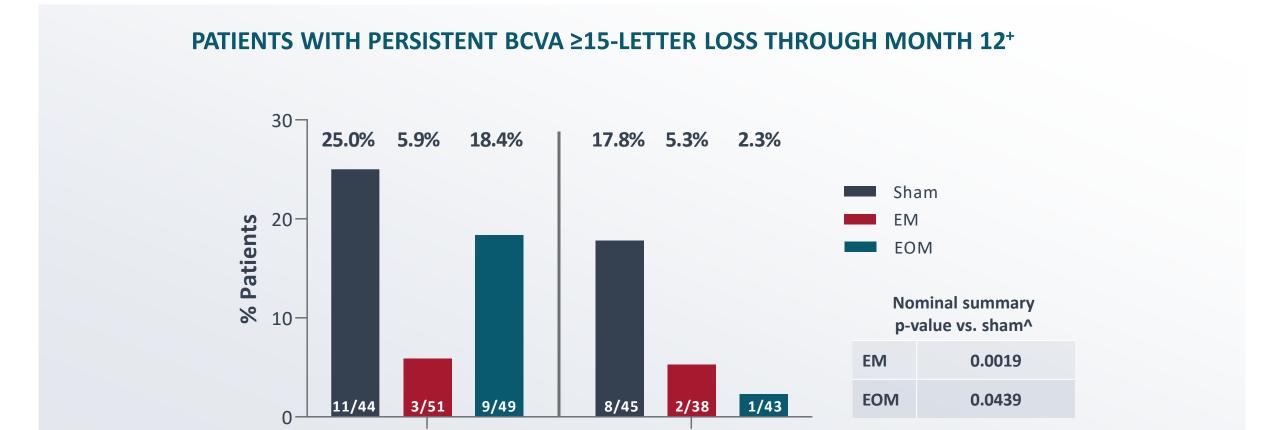
HR, hazard ratio; Nominal log-rank test (versus sham) p-values are presented

Month

Increasing ANX007 Impact Over Time

patients with vision loss only at month 12

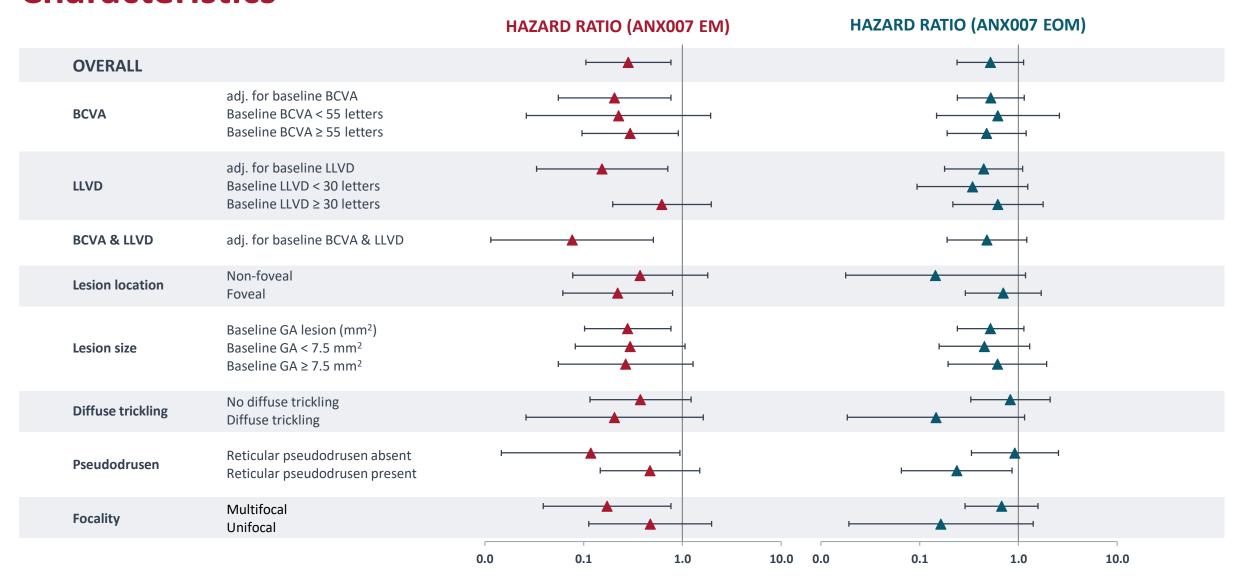
ANX007 BCVA Subgroup Analysis: Protection from Vision Loss in Foveal and Non-Foveal Patients



Non-Foveal

Foveal

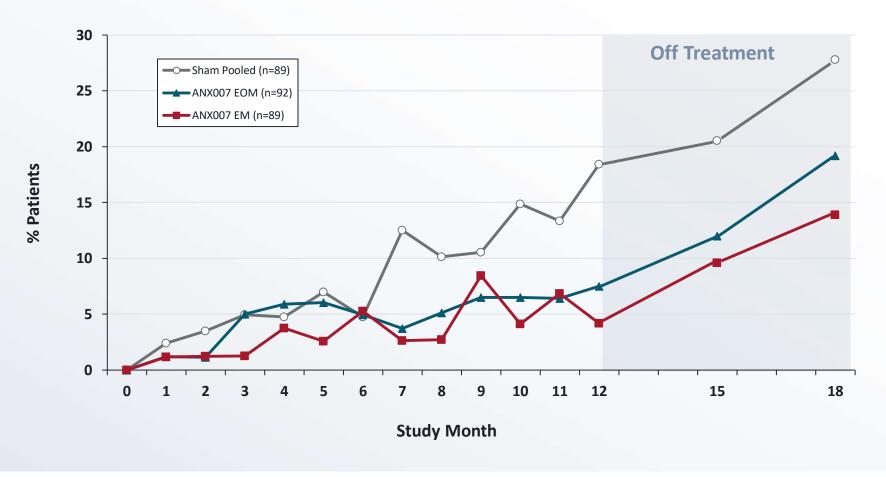
ANX007 Protection from Vision Loss Consistent Across Baseline Characteristics



^{*}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.

BCVA ≥15-Letter Loss Accelerates After Cessation of Treatment Visual Function Loss Parallels Sham in Off-Treatment Period

% PATIENTS WITH ANY BCVA ≥15-LETTER LOSS FROM BASELINE



- Low frequency (<10% per timepoint) of single BCVA ≥15-letter losses in EMand EOM-treated groups during 12-month treatment period
- BCVA ≥15-letter loss frequency increased (10% or greater) in offtreatment period for EM and EOM groups, paralleling sham behavior

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 – No Cases Reported						
Intraocular Inflammation ⁺	0	2 (2.2%)	1 (1.1%)			
Ischemic Optic Neuropathy ⁺ - No Cases Reported						

[^]Isolated cilioretinal artery occlusion; no vasculitis confirmed by DSMC and reading center †Not AESI, included because of current interest

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

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

- ✓ C1q inhibition: distinct neuroprotective MOA
- ✓ ANX007 treatment demonstrated:
 - ✓ Consistent visual function benefits
 - ✓ Highly statistically significant effect on visual acuity endpoints
 - ✓ Dose- and time-dependent effect
 - ✓ Growing effect on both vision protection and lesion growth over time
- ✓ Vision loss accelerates after treatment cessation
- ✓ ANX007 generally well-tolerated
- ✓ Phase 3 clinical and regulatory preparations are underway, including PRIME program guidance and other FDA/EMA interactions