Efficacy and Safety of Intravitreal Administration of ANX007 in Patients With Geographic Atrophy: Results of the ARCHER Phase 2 Study

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On behalf of the ARCHER Investigators

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Disclosures

Scientific Advisor:

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Anti-C1q: A Unique Neuroprotective Mechanism

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



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

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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;

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



Annexon data on file

ARCHER: ANX007 Phase 2 Trial in GA



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



"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</p>

- 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 ≥15 Letter Vision Loss with ANX007 Monthly Treatment



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

Increasing ANX007 Impact Over Time

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



[#]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

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



- 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 Did Not Significantly Reduce GA Lesion Area



GA LESION AREA CHANGE FROM BASELINE AT MONTH 12[#]

[#]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; ^2-arm MMRM model

Ellipsoid Zone (EZ) Change Directly Measures Photoreceptor Anatomy Rather than RPE

Protection of photoreceptors may arise from synaptic protection



ARCHER EZ Population

194 patients with OCT scans from Heidelberg Spectralis

Sham	ANX007 EM	ANX007 EOM	Total
72	61	61	194

 Patient demographics and study eye characteristics were generally well balanced across the groups

EZ Deficit Definitions

Total EZ Attenuation (FDA approvable Endpoint)	Defect map area with EZ thickness = 0 μm ; complete loss of EZ visualization
Partial EZ Attenuation	Defect map area with EZ thickness < 20 µm; marker for earlier photoreceptor degenerative changes

Al-Derived En Face Defect Surface Map



OCT

Similar Protection from Vision Loss Across Total ARCHER Subjects and EZ Population



*Persistent for two consecutive visits through month 12 or at last visit ^Nominal p-value from a Chi-square test in ITT population (n = 270) * Nominal p < 0.05</p>

EZ Population Only 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 EZ population (n = 194) * Nominal p < 0.05</p>

Initial Assessment of Ellipsoid Zone Change: ANX007 Demonstrated ~30% Change from Sham in EZ Attenuation

As observed 12-month completer data; MMRM analysis ongoing, pending full timepoint assessment



#Data as observed

^Nominal p-value from a linear regression with Heidelberg Spectralis OCT population with baseline and month 12 EZ data (n = 157)

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* Nominal 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 – 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

lritis – 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



Replicate ARCHER and support global approvals



16 *ARCHER n=270 GA patients. **24 months total treatment per regulatory direction

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

ANX007's unique mechanism of action targets C1q pathway to protect photoreceptors

ANX007 demonstrated consistent visual function benefits

- □ Highly statistically significant on visual acuity endpoint
- Dose and time dependent
- Benefit in foveal and non-foveal patients
- Initial EZ assessment showed ~30% slowing of photoreceptor loss at 12 months
- Generally well tolerated
- ANX007 global Phase 3 program is under development with first and only EMA PRIME designation in GA