Visual Function Outcomes in the Phase 2 ARCHER Trial of ANX007, a C1q Inhibitor, in Participants with dry **AMD** with GA: Number Needed to **Treat Analysis**

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*A full list of ARCHER investigators can be found at https://clinicaltrials.gov/study/NCT04656561

Disclosures

Dr. Vakharia:

- **Consultant/ Advisor:** Annexon, Abbvie, Aliph, ANI Pharmaceuticals, Apellis, Astellas, Bayer, Bausch and Lomb, Coherus, Eyepoint, Genentech/Roche, Heidelberg, Notal Vision, Novartis, Ocuphire, Regeneron
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- Speaker: Apellis, Astellas, Regeneron, Genentech, Bausch and Lomb

Purpose

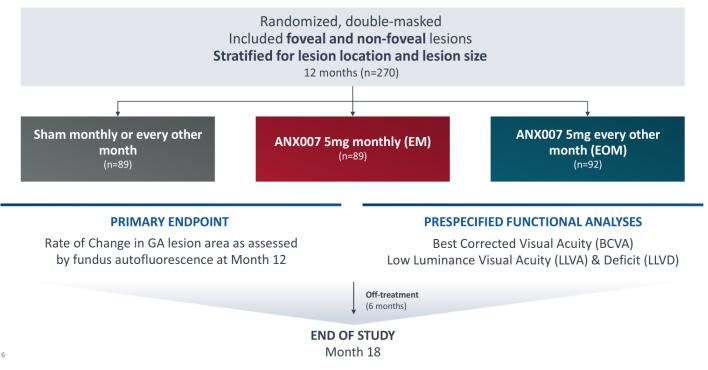
- To report visual outcomes in the ARCHER trial in participants treated with ANX007 compared with sham treatment by considering the Number Needed to Treat (NNT).
- NNT is a calculated measure predicting the number of patients who would need to be treated to prevent one additional adverse outcome.

Methods

- Participants in ARCHER, a phase 2 randomized trial in participants with dry AMD with Geographic Atrophy, were randomized to receive intravitreal (IVT) administration of 5 mg ANX007 monthly (EM, n=89) or every other month (EOM, n=92), or matched sham (n=89).
- Treatment was administered for 12 months, after which participants were followed for an additional 6 months off treatment.

ARCHER: Phase 2 Trial C1q Inhibitor ANX007 in Patients with Dry AMD and GA

ANX007: non-pegylated IVT-administered Fab fragment

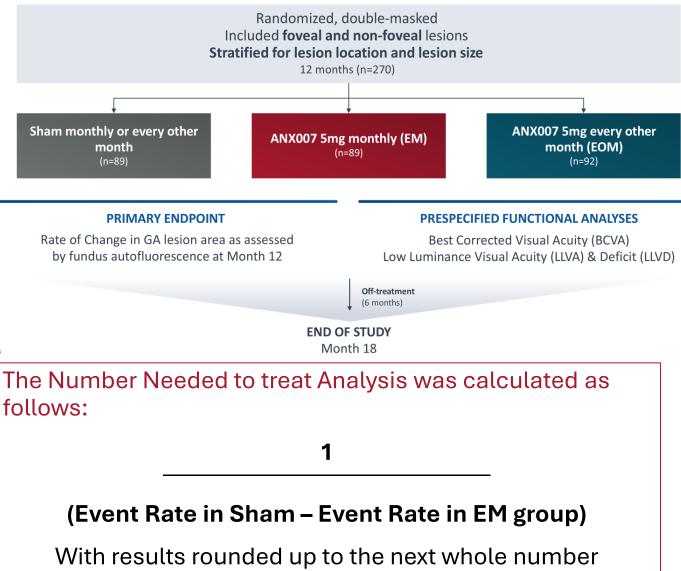


Methods

ARCHER: Phase 2 Trial C1q Inhibitor ANX007 in Patients with Dry AMD and GA

ANX007: non-pegylated IVT-administered Fab fragment

Prespecified analyses included best-corrected visual acuity $(BCVA) \ge 15$ -letter loss at 2 Sham monthly or every other consecutive visits and changes month (n=89) from baseline in EZ and RPE structure. **PRIMARY ENDPOINT** Additional analyses were conducted to evaluate the effect of ANX007 on these measures in participants with follows: relatively less advanced disease at baseline (less EZ loss and lower low luminance visual deficit [LLVD]).



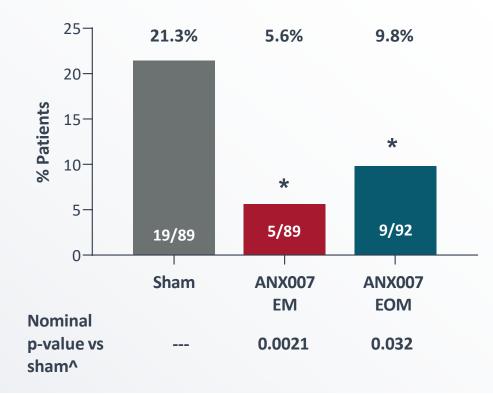
Results: Patient Demographics and Study Eye Baseline Characteristics Were Generally Well-Balanced Across Groups

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) ~20/70	58.8 (17.2) ~20/70	58.3 (15.0) ~20/70
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%)

Results: Fewer Patients Treated with ANX007 Had Confirmed BCVA ≥15-Letter Loss Through Month 12

A Prespecified Secondary Analysis

PATIENTS WITH CONFIRMED BCVA ≥15-LETTER LOSS THROUGH MONTH 12[#]



*Persistent for two consecutive visits through month 12 or at last study visit ^Nominal p-value from a Chi-square test in ITT population: * Nominal p < 0.05 Number Needed to Treat = 1 / (21.3 - 5.6) * 100 = 6.4

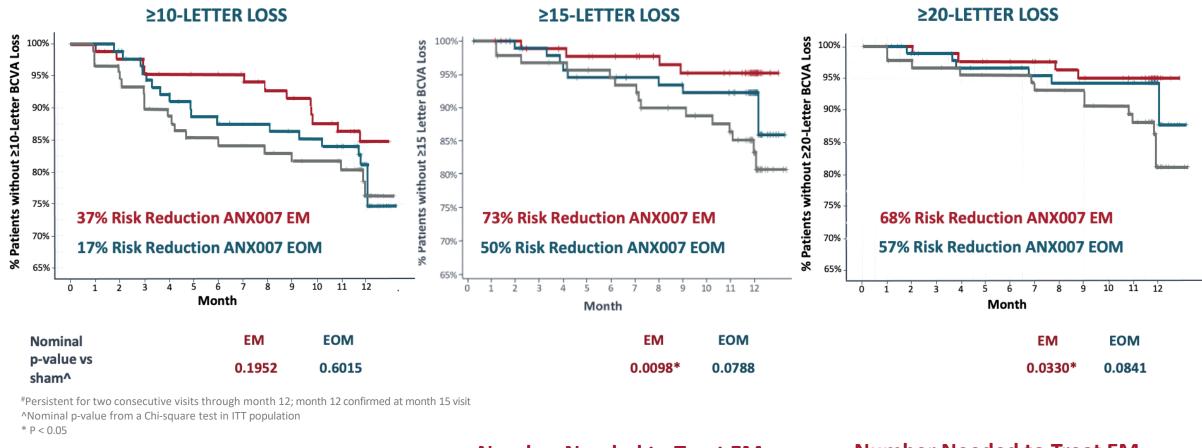
- First known clinically meaningful preservation of vision in GA
- Dose-dependent response
- BCVA ≥15-letter loss universally deemed clinically meaningful

Number Needed to Treat = 7

For every 7 patients treated with ANX007 monthly, 1 additional patient would be spared clinically significant vision loss

Results: Fewer Patients Treated With ANX 007 Had Confirmed BCVA Loss of ≥10, ≥15, and ≥20 letters Through Month 12

Dose- and Time- dependent protection from BCVA ≥10, ≥15- and ≥20-letter loss



Number Needed to Treat EM

To Avoid ≥ 10 LL = 10

Number Needed to Treat EM

To Avoid ≥15 LL = 7

Number Needed to Treat EM

To Avoid \geq 20 LL = 8

8

Results: Number Needed to Treat

 NNT values of ~6-10 in ARCHER are consistent across measures and compare favorably to other therapeutic area interventions:

NNT = 125 to prevent stroke with statin therapy, in patients with known heart disease ¹⁻³ NNT = 333 to avoid a nonfatal heart attack as a first cardiovascular event with Aspirin therapy⁴⁻⁶

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4. Bibbins-Domingo K. Aspirin Use for the Primary Prevention of Cardiovascular Disease and Colorectal Cancer: U.S. Preventative Service Task Force Recommendation Statement. Ann Intern Med. 2016;164:836-845.

5. Mahmoud AN, Gad MM, Elgendy AY, Elgendy IY, Bavry AA. Efficacy and safety of aspirin for primary prevention of cardiovascular events: a meta -analysis and trial sequential analysis of randomized controlled trials. Eur Heart J. 2019;40:607 -17.

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9

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

^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

Conclusions: ANX007 Protection of Visual Function in ARCHER

ANX007 treatment demonstrated **consistent, meaningful, dose-dependent protection of visual function** in GA patients

 Number Needed To Treat Ranged from 6-10 to prevent additional adverse outcomes across various outcomes measures with ANX007 EM vs sham

• ANX007 treatment was generally well-tolerated; no CNV increase; no reported cases of vasculitis or ION