Phase 2b CLS-AX ODYSSEY Trial Results

Roger A. Goldberg, MD, MBA
Bay Area Retina Associates, Walnut Creek, CA

On behalf of the ODYSSEY investigators

Financial Disclosures

RAG

- Clearside (G [SRC], C)
- 4DMT (G)
- Abbvie (G, C)
- Adverum (C)
- Affamed (G)
- Alexion (G)
- Alimera (C)
- Annexon (G, C)
- Apellis (G, C, S)
- Avirmax (G)
- Boehringer Ingelheim (G, C)
- Cognition (G)

- Emmetrope Ophthlamics (E)
- EyePoint (G, C)
- Genentech (G, C, S)
- Janssen (G, C)
- Neurotech/LMRI (G, C)
- NovoNordisk (G)
- Ocular Therapeutix (G, C)
- Orasis (C)
- StealthBio (G, C)
- Regeneron (G, C)
- UnityBio (G)
- Zeiss (G, C)

Axitinib is a Highly Potent, Highly Selective Pan-VEGF Inhibitor



Inhibits ALL VEGF Receptors (VEGFR-1, VEGFR-2, VEGFR-3)

- Intrinsic pan-VEGF inhibition through receptor blockade
- More active than anti-VEGF-A in *in-vitro* angiogenesis model¹⁻²
- Approved AMD treatments are focused VEGF-A inhibitors



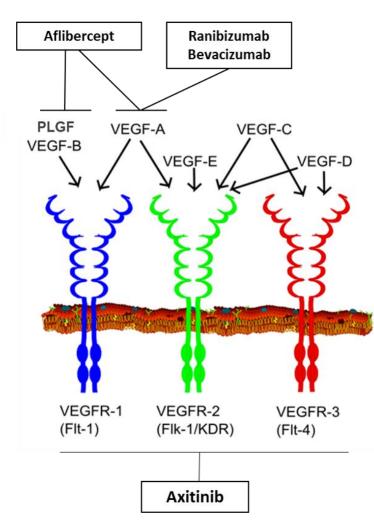
Tyrosine kinase inhibitor (TKI) with the highest potency

- >10x more potent than other TKIs in in-vitro studies³
- Better ocular cell biocompatibility than other TKIs⁴
- More active than other TKIs for experimental corneal neovascularization in preclinical models



Small molecule formulated into suspension for SCS delivery

- Preclinical data showed regression of angiogenesis
- FDA-approved renal oncology treatment with established mechanism of action



VEGF Receptor-2 primarily mediates angiogenesis



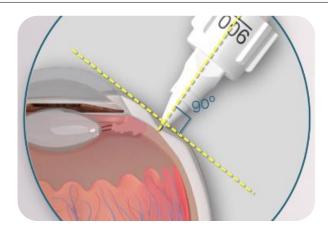
Straightforward Suprachoroidal Injection Technique



SUPRACHOROIDAL SPACE INJECTION TECHNIQUE

Expert Panel Guidance

™ Wykoff, Charles C. MD, PhD*; Avery, Robert L. MD*; Barakat, Mark R. MD*.5; Boyer, David S. MD*; Brown, David M. MD*; Brucker, Alexander J. MD**; Cunningham, Emmett T. Jr MD, PhD, MPH***, Heier, Jeffrey S. MD***; Holekamp, Nancy M. MD^{†††}; Kaiser, Peter K. MD⁵⁵⁵; Khanani, Arshad M. MD, MA^{¶¶}, ***; Kim, Judy E. MD^{††††}; Demirci, Hakan MD^{‡‡‡}; Regillo, Carl D. MD5555; Yiu, Glenn C. MD, PhD1111: Ciulla, Thomas A. MD, MBA**



Perpendicular

Hold the microinjector perpendicular to the ocular surface

RETINA SPECIALIST

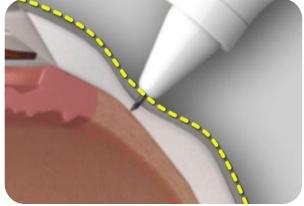
A beginner's guide to suprachoroidal injections

They require a different skill set than intravitreal injections. Here's a description of the technique.

By Carol Villafuerte-Trisolini, MD, and Glenn Yiu, MD, PhD

DECEMBER 23, 2023





Dimple

Ensure firm contact with sclera by maintaining a dimple throughout injection

BMC Part of Springer Nature

Early adoption of triamcinolone acetonide suprachoroidal injection for uveitic macular edema: a physician survey

Christopher R. Henry, Scott D. Walter, Peter Y. Chang, David J. Warrow, Parisa Emami Naeini, Kevin J. Blinder, Teresa Brevetti, Mohamed Yassine, Mark S. Dacey, David S. Chu, Veena R. Raiji, Lana M. Rifkin, Milan Shah & Michael A. Singer □



Slow

Inject **slowly** over 5 - 10 seconds



ODYSSEY Phase 2b Clinical Trial



Trial Objectives:
Evaluate safety, efficacy &
duration of CLS-AX in
participants with wet AMD

- Primary Outcomes: Mean change in BCVA from Baseline to Week 36; Safety & tolerability
- Secondary Outcomes: Other changes in visual function and retinal imaging, including CST; Need for supplemental treatment; Treatment burden as measured by total injections

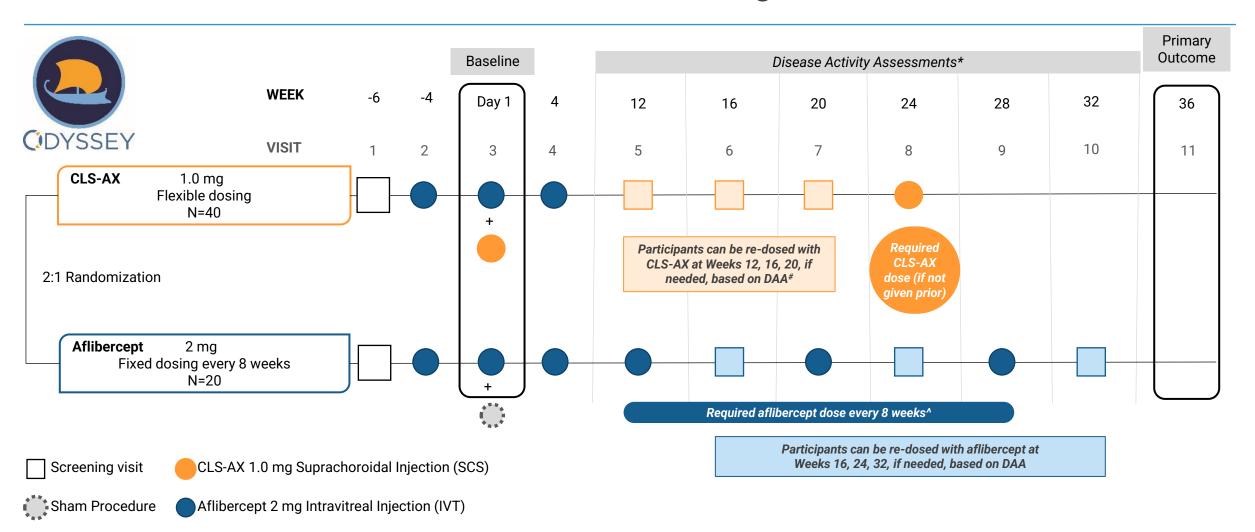


Participant Profile:
60 total with 2:1 randomization
(40 in CLS-AX arm & 20 in
aflibercept arm)

- Treatment experienced participants with reading center confirmation of persistent active disease
- Protocol required re-dosing with CLS-AX in study arm
 - Participants received at least 2 doses of CLS-AX
 - Provided important data to plan Phase 3 in chronic disease



ODYSSEY Trial Design



^{*}Participants can be re-dosed with CLS-AX up to every 12 weeks; All arms are sham controlled



^{*} Disease Activity Assessments (DAA): Conducted at Week 12 through 32 to determine need for supplemental treatment.

[#] In CLS-AX arm, following 3 loading doses of aflibercept and initial dose of CLS-AX at Baseline, participants will receive CLS-AX at least every 24 weeks unless more frequently required based on DAA; if disease is active and participant is <12 weeks since last CLS-AX injection, participant receives dose of aflibercept; if disease is active and participant is >12 weeks since last CLS-AX injection, participant receives dose of CLS-AX.

[^] In affibercept arm, following 3 loading doses of aflibercept, participants will receive aflibercept on fixed dosing regimen every 8 weeks unless more frequently required based on DAA; if disease is active, participant receives dose of aflibercept.

Demographics and Baseline Characteristics

Characteristics	CLS-AX	Aflibercept	Overall
No. of participants	40	20	60
Mean age (range), years	76.9 (51-90)	80.3 (54-96)	78.0 (51-96)
Women, no. (%)	25 (62.5)	14 (70.0)	39 (65.0)
Race, no. (%) White Asian	37 (92.5) 3 (7.5)	20 (100) 0	57 (95.0) 3 (5.0)
Median duration of wet AMD diagnosis (range), months	9.65 (1.4-31.1)	10.2 (1.4-20.8)	9.9 (1.4-31.1)
Mean BCVA (range) at screening, ETDRS letters	69.1 (37-80)	69.1 (51-80)	69.1 (37-80)
Mean CST (range) at screening, μm	266.8 (175-378)	294.3 (209-592)	276.0 (175-592)
Mean Total Area of CNV (range) at screening, mm ²	6.8 (1.6-26.9)	6.5 (0.5-20.8)	6.7 (0.5-26.9)
Bilateral wet AMD, n	17	6	23
Mean annualized number of prior wet AMD treatments (injections/year) ^a (range)	9.5 (3.2-17.2)	9.2 (4.1-17.2)	9.4 (3.2-17.2)

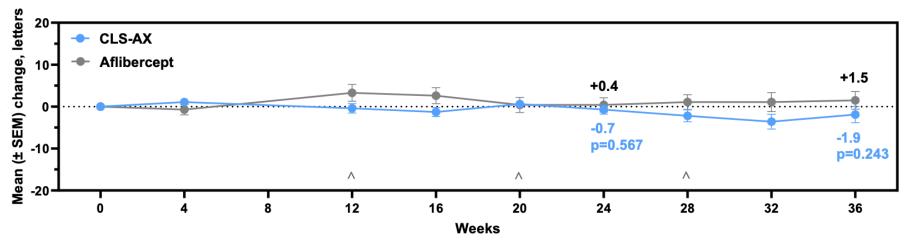


Stable Best Corrected Visual Acuity (BCVA) and Central Subfield Retinal Thickness (CST) Over 36 Weeks

CLS-AX results do not include supplemental therapy with aflibercept

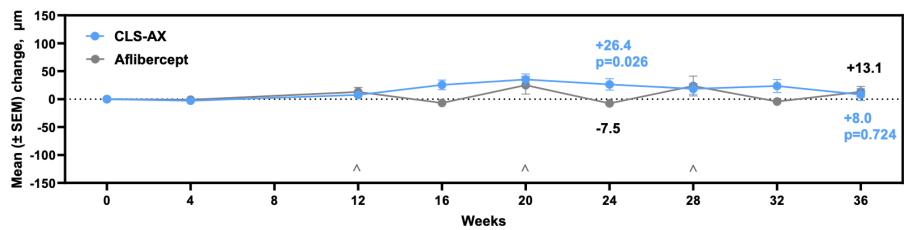
BCVA

Within 2 letters from Baseline at Week 24 and Week 36 in CLS-AX arm



CST

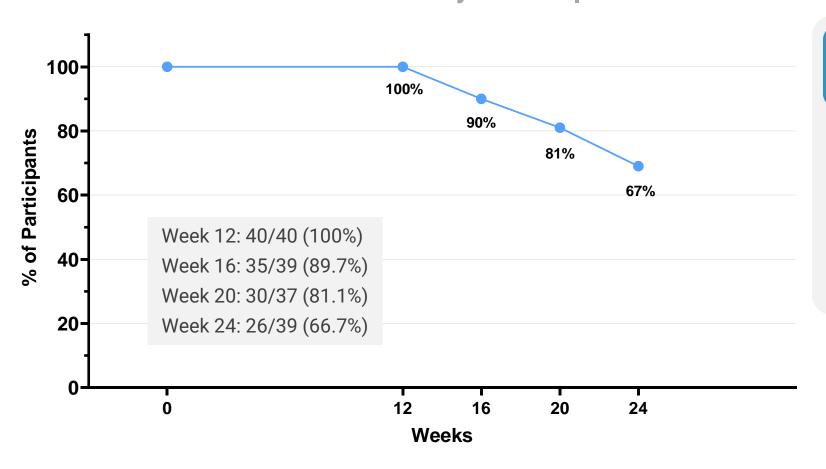
Stable anatomical control Reduces fluctuation





Two-Thirds of Participants Dosed with CLS-AX Reached Six Months Without Additional Treatment

Intervention-Free Rates By Week Up to Each Visit



Results Comparable to Other TKI Programs Beginning Phase 3 Trials

6 Month Injection-Free Rate:

67%

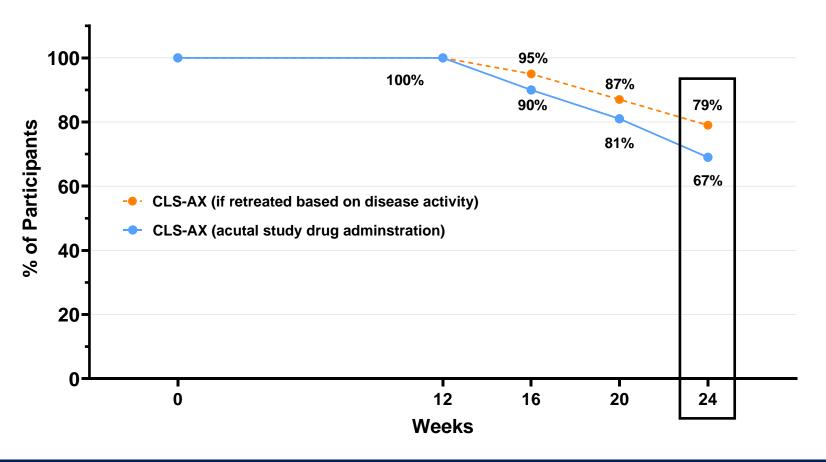
Reduction of Injection Frequency:

84%



More Participants May Have Been Intervention Free at Every Time Point if DAA Criteria Strictly Applied

No Participants Met the DAA Criteria Per Reading Center Confirmation at Week 24, but They Received Mandatory Re-Dosing Per the Protocol



Based on disease activity

Week 12: 40/40 (100%)

Week 16: 37/39 (94.9%)

Week 20: 32/37 (86.5%)

Week 24: 30/38 (78.9%)



CLS-AX Consistently Reduced the Frequency of Injections

Comparison of Wet AMD Treatments Pre- and Post- Randomization

24 Weeks Before and After

Average number of treatments 24 Weeks prior to Screening Visit: 2.95 injections

Average number of treatments up to 24 Weeks after Baseline Visit: **0.475 injections**

Reduced injection frequency by

84%

CLS-AX Demonstrated Positive Safety Profile

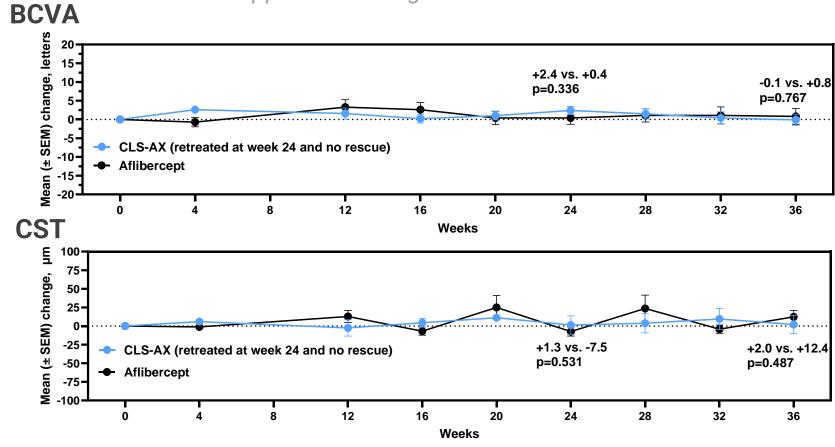
No Ocular SAEs and No Treatment-Related SAEs

- No drug or procedure-related ocular SAEs
- No reported drug or procedure-related systemic SAEs
- No endophthalmitis
- No retinal vasculitis
- Four cases of intraocular inflammation all deemed clinically mild by the Safety Review Committee
 - Two cases had minimal clinical signs that resolved
 - Two cases were potentially related to drug administration
 - In all four cases, the inflammation was no longer detected at or before Week 36

Sub-Group Analysis 1: Patients Re-Dosed with CLS-AX at Week 24 Only

Did not require aflibercept rescue or CLS-AX re-dosing prior to Week 24

Supports Enrolling Treatment Naïve Patients in the CLS-AX Phase 3 Program



Sub-Group Analysis Including CLS-AX Participants Solely Re-dosed with CLS-AX at Week 24 vs. Aflibercept Comparator Participants

Key Insights for Phase 3 Planning

In ODYSSEY, with more challengingto-treat patients:

67% CLS-AX patients did not require rescue or re-dosing from baseline to the 6-month mandatory CLS-AX re-dosing

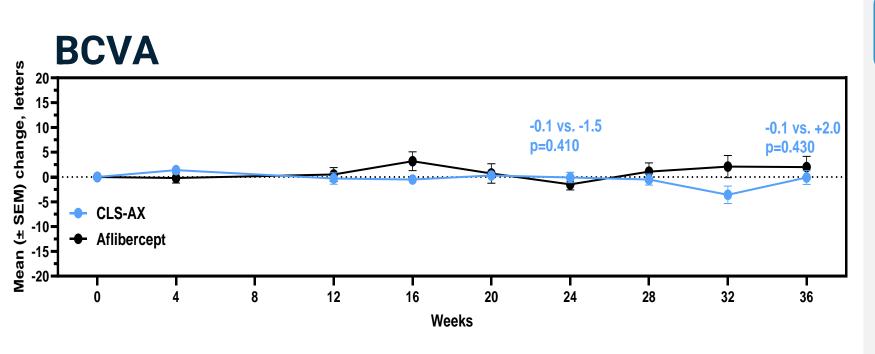
In the planned Phase 3 program, by targeting treatment naïve or the more general wet AMD population, there may be an even greater percentage reaching 6-months without rescue or re-dosing.



Sub-Group Analysis 2:

Elimination of data on any observed ≥10 letter change in BCVA without OCT changes

Supports CLS-AX Phase 3 Trial Design That Excludes Participants with Non-disease Related Changes in Visual Acuity Prior to Randomization



Sub-Group Analysis Excluding Observations with ≥10 Letter Change from the Previous Visit in BCVA Without a Corresponding 50 Micron Change in CST

Key Insights for Phase 3 Planning

Elimination of observations of ≥10 letter changes <u>prior to</u> <u>randomization</u> may:

- Reduce BCVA variability unrelated to Wet AMD activity
- Better ensure data reflects real world treatment practices



CLS-AX Flexible Dosing of a Biologic with the Duration of a TKI

Phase 3 Program Summary

Two pivotal, non-inferiority trials with treatment naïve participants

Two arms with ~225 participants per arm: CLS-AX 1mg vs aflibercept 2mg

Eliminate participants with non wAMD visual acuity variability prior to randomization

Similar to Phase 3 trial design of EYLEA HD and VABYSMO in maintenance phase

Employ more "real world" clinical practice re-dosing criteria for CLS-AX

CLS-AX flexible dosing should be important differentiation vs other TKI programs

End-of-Phase 2 Meeting expected in Q1 2025

Expect to initiate both trials in 2H 2025



CLS-AX Now Phase 3 Ready Based on Positive ODYSSEY Data in Wet AMD



Enrolled Only
Difficult-to-Treat
Participants with
Active Disease



Achieved
Primary Outcome
Maintaining Stable
BCVA with Repeat
Dosing



Compelling Intervention-Free Rates



Positive
Safety Profile
with Repeat
Dosing