

# Results from the Phase 3 PEACHTREE Clinical Trial: Systemic Therapy and the Efficacy of CLS-TA, a Post-Hoc Analysis

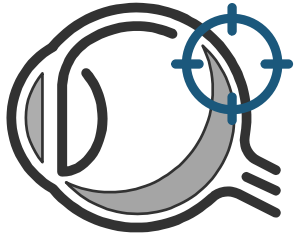
ARVO 2020 Program # B0098  
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# Financial Disclosures

- CH: Clearside Biomedical (C)
- TC: Clearside Biomedical (E, I)

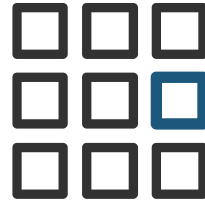
# Core Advantages of Treating Via the Suprachoroidal Space



## TARGETED

The back of the eye is the location of many irreversible and debilitating visual impairments<sup>1</sup>

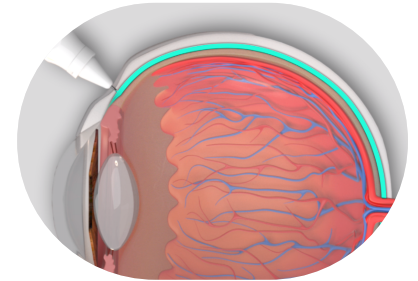
*for efficacy*



## COMPARTMENTALIZED

Drug is compartmentalized in the suprachoroidal space, which helps keep it away from non-diseased tissues<sup>2</sup>

*for safety*



## BIOAVAILABLE

Fluid spreads circumferentially and posteriorly when injected within the suprachoroidal space, bathing the choroid and adjacent areas with drug<sup>3</sup>

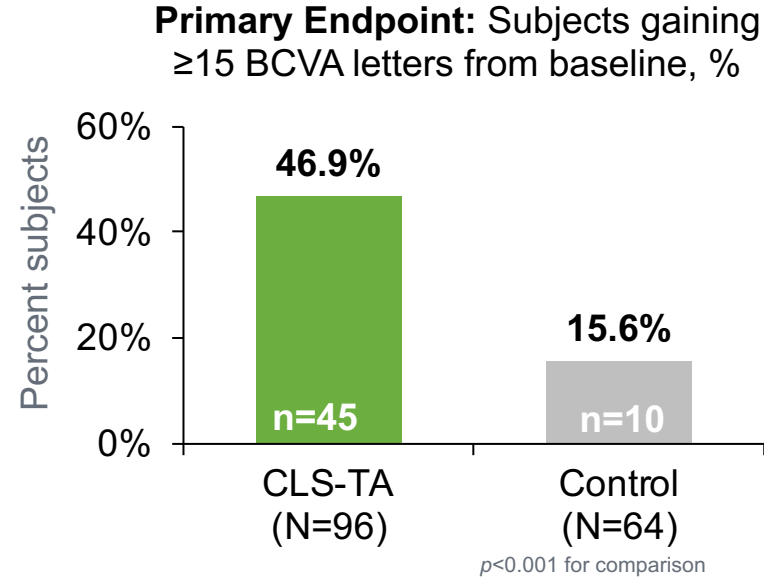
*for durability*

PK = pharmacokinetic

Sources 1. Rai UDJ, Young SA, Thrimawithana TR, et al. The suprachoroidal pathway: a new drug delivery route to the back of the eye. Drug Discov Today. 2015;20(4):491-495. 2. Chiang B, Jung JH, Pransnitz MR. The suprachoroidal space as a route of administration to the posterior segment of the eye. Adv Drug Deliv Rev. 2018;126:58-66. 3. Moisseiev E, Loewenstein A, Yiu G. The suprachoroidal space: from potential space to a space with potential. Clin Ophthalmol. 2016;10:173-178.

# Background: Suprachoroidal Delivery of Corticosteroids

- PEACHTREE: Phase 3, Sham Controlled, Masked, Randomized trial to assess CLS-TA (investigational suspension of triamcinolone acetonide for suprachoroidal delivery) for macular edema (ME) associated with noninfectious uveitis (NIU) versus sham treatment



# Safety: PEACTHREE

IOP-Related Events	CLS-TA 4.0 mg N = 96	Control N = 64
<b>Elevated IOP adverse events</b>	11 (11.5%)	10 (15.6%)
<b>IOP elevation <math>\geq 10</math> mmHg change from baseline at any visit*</b>	9 (9.4%)	7 (10.9%)
<b>IOP elevation <math>\geq 30</math> mmHg absolute reading at any post baseline visit*</b>	5 (5.2%)	4 (6.3%)
<b>Given any additional IOP-lowering medication</b>	7 (7.3%)	6 (9.4%)
<b>Any surgical intervention for an elevated IOP Adverse Event</b>	0	0

- Cataract: 7.3% (7/96) in the CLS-TA arm vs. 6.3% (4/64) in the sham arm
- One serious ocular AE
  - Retinal detachment 8 weeks after CLS-TA
  - Determined to be unrelated to study drug by the Investigator

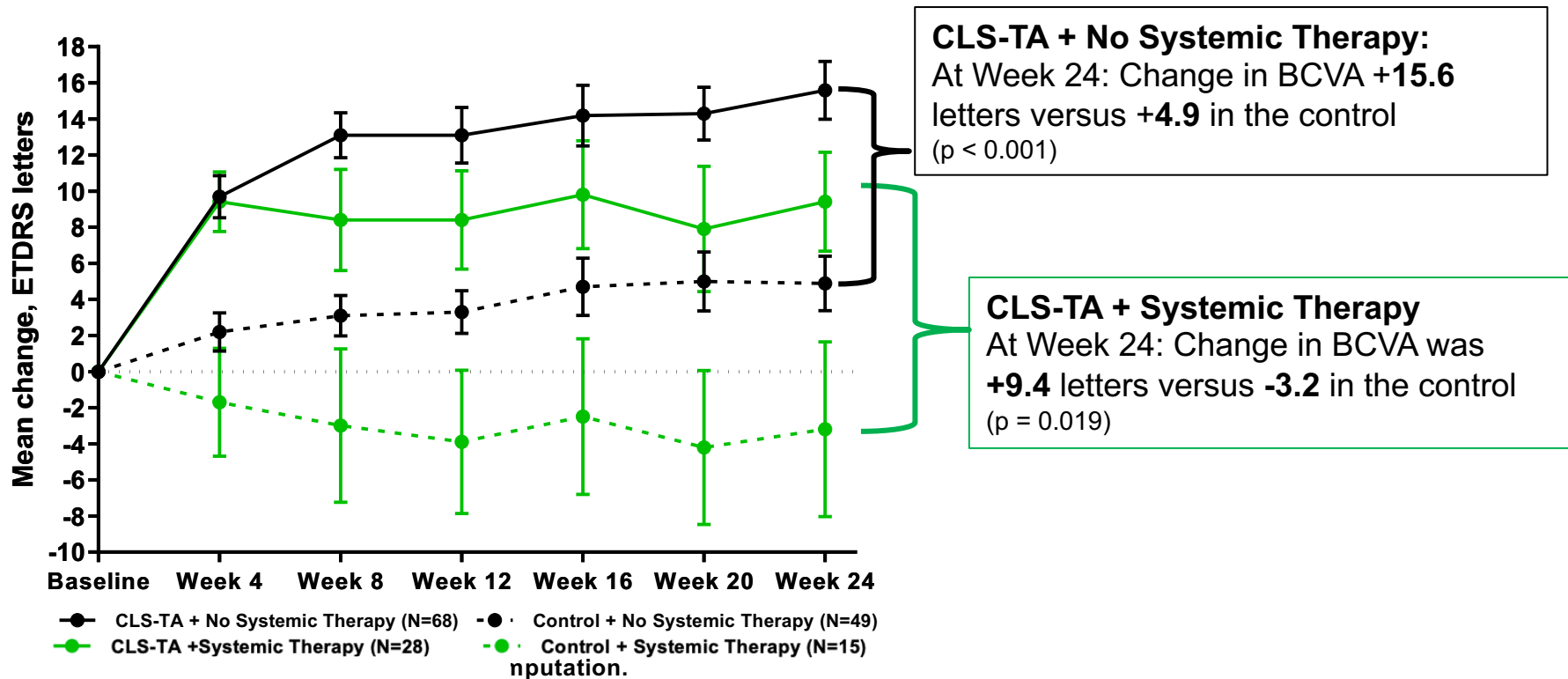
# Post Hoc Analysis: Objectives and Methods

- In Peachtree, enrollment criteria allowed for:
  - low dose corticosteroid or
  - stable dose of immunomodulatory therapy throughout study if no increase anticipated during study
- Post-hoc analyses were performed to evaluate improvement in BCVA and CST in subjects receiving systemic corticosteroids and/or steroid-sparing therapy at baseline versus subjects receiving no systemic therapies
  - Dosage reduction / stoppage during study after baseline not accounted for in analysis

# Results

<b>Any Systemic Steroid or Steroid-Sparing Therapy at Baseline</b>	<b>CLS-TA n=96</b>	<b>Control n=64</b>
NO Systemic Therapy	68/96 (70.8%)	49/64 (76.6%)
YES Systemic Therapy (steroid or steroid-sparing)	28/96 (29.1%)	15/64 (23.4%)

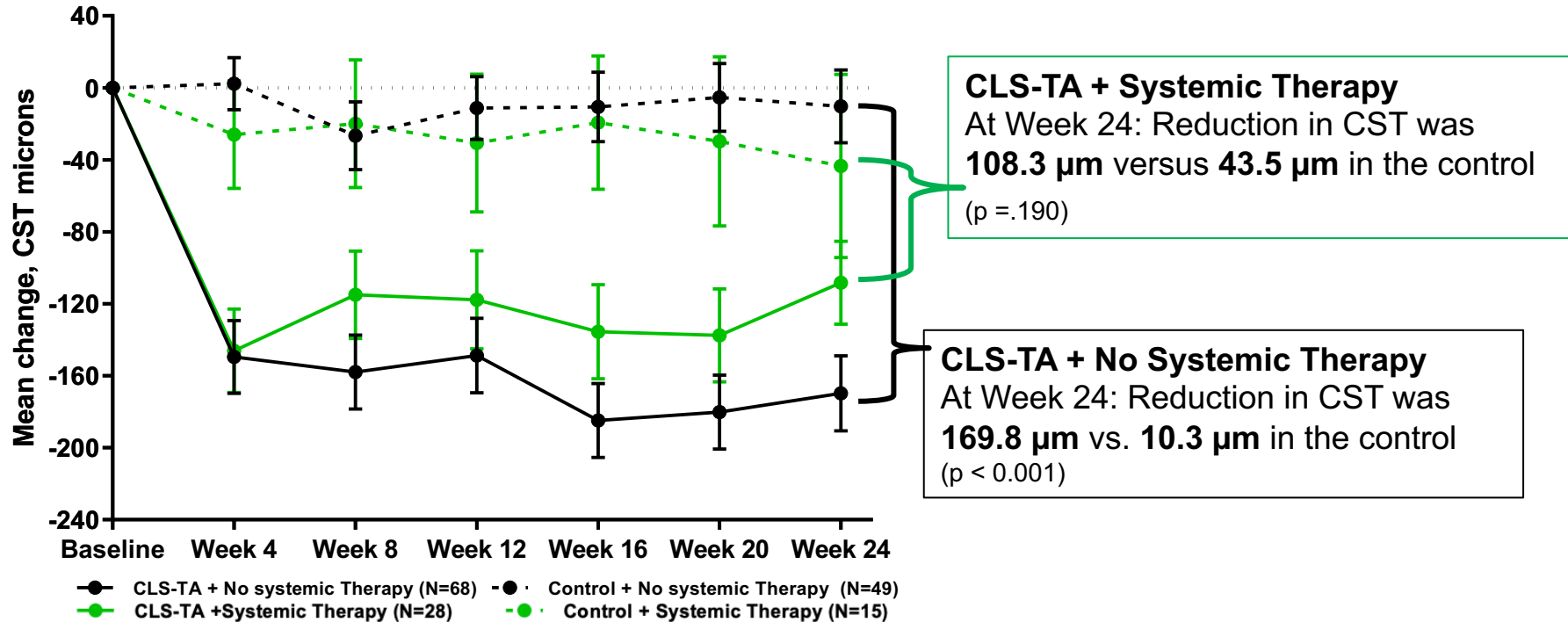
# Mean change in BCVA significantly greater than control in both CLS-TA groups



Intention-to-treat population; LOCF imputation.



# Mean change in CST significantly greater than control in No Systemic Therapy group



Intention-to-treat population; LOCF imputation.

# Conclusion

- These results corroborate the prespecified study analyses in PEACHTREE
- The benefit of CLS-TA over the control in treating ME associated with NIU was noted regardless of administration of systemic therapy at baseline.