Variations in Intraocular Pressure Following Administration of Suprachoroidal Triamcinolone Acetonide Suspension (CLS-TA)

Results from the Phase 3 PEACHTREE Clinical Trial for Uveitic Macular Edema

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Disclosure

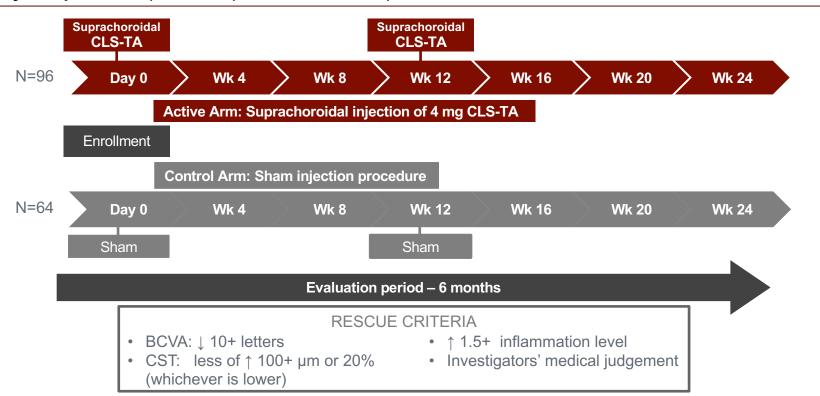
- Dr. Nguyen has served as advisor for Bayer, Clearside, Genentech/Roche, Regeneron, Santen
- Stanford University, the employer of Dr Nguyen, has received research funding from Genentech, Regeneron, and Santen, among others

The Suprachoroidal Space Targeted and Compartmentalized Delivery



PEACHTREE: Phase 3, Randomized, Controlled, Double-Masked, Multicenter Trial

Primary Endpoint: Proportion of patients with an improvement from baseline ≥15 letters in BCVA at Week 24



Key Inclusion and Exclusion Criteria

Inclusion

- Diagnosis of macular edema with central subfield thickness ≥300 microns
- Noninfectious uveitis of any associated diagnosis/etiology
- Any anatomic location: anterior, intermediate, posterior and panuveitis
- Visual acuity: 20/800 to 20/40 (≥5 to ≤70 ETDRS letters)

Exclusion

- Any active ocular disease or infection in the study eye other than uveitis
- Intraocular pressure >22 mmHg or uncontrolled glaucoma; patients ≤22 mmHg could be on up to 2 IOP-lowering medications

Subjects could have active or controlled disease at enrollment

ETDRS: Early Treatment Diabetic Retinopathy Study

IOP: intraocular pressure

Baseline Subject Characteristics Similar Between Groups

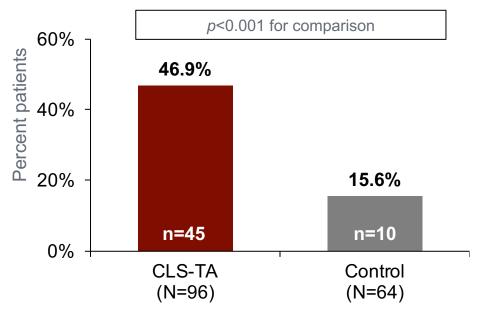
| Characteristic | CLS-TA N=96 | Control N=64 | Overall N=160 |
|---------------------------------|-----------------|-----------------|------------------|
| Gender, n (%) | | | |
| Male | 42 (43.8) | 30 (46.9) | 72 (45.0) |
| Female | 54 (56.3) | 34 (53.1) | 88 (55.0) |
| Age (years), mean (SD) | 50.40 (14.18) | 50.0 (15.08) | 50.2 (14.5) |
| BCVA, study eye (ETDRS letters) | | | |
| Mean (SD) | 54.7 (13.9) | 53.5 (12.9) | 54.2 (13.5) |
| Median (range) | 57 (9 – 89) | 54 (12-79) | 56 (9-89) |
| CST, study eye (µm) | | | |
| Mean (SD) | 480.9 (153.2) | 525.4 (158.1) | 498.7 (156.3) |
| Median (range) | 453.0 (256-857) | 518.5 (274-971) | 481.5 (256-971) |

Baseline Subject Characteristics: IOP and Glaucoma

| Characteristic | CLS-TA N=96 n (%) | Control N=64 n (%) |
|--|-------------------------|--------------------------|
| Any Medical History Related to Glaucoma or IOP | 21 (21.9) | 14 (21.9) |
| Angle closure glaucoma | 0 (0) | 1 (1.6) |
| Glaucoma | 10 (10.4) | 4 (6.3) |
| Glaucomatous optic disc atrophy | 1 (1.0) | 0 (0) |
| Intraocular pressure increased | 2 (2.1) | 0 (0) |
| Ocular hypertension | 5 (5.2) | 7 (10.9) |
| Open Angle Glaucoma | 1 (1.0) | 1 (1.6) |
| Trabeculectomy | 1 (1.0) | 0 (0) |
| Uveitic glaucoma | 1 (1.0) | 1 (1.6) |
| ≥ 1 IOP lowering medication | 5 (5.2) | 2 (3.1) |

PEACHTREE: Met Primary Efficacy Endpoint

Primary Endpoint: Subjects gaining ≥15 BCVA letters from baseline at Week 24, %



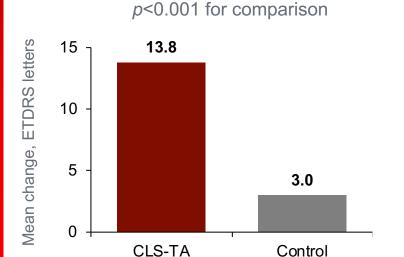
Intention-to-treat population; Last Observation Carried Forward imputation.

The p-value is based on a Cochran-Mantel-Haenszel test for general association between treatment and response with stratification by country.

Mean Change in BCVA

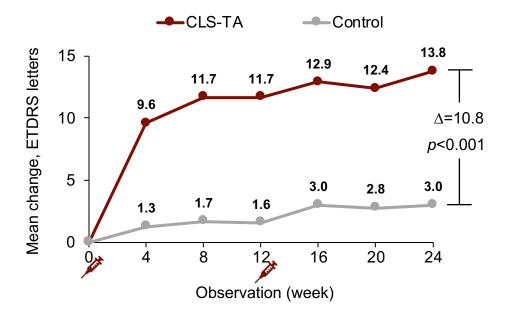
Improvement Observed as Early as Week 4 Through Week 24 in the CLS-TA Arm

Mean change from baseline in BCVA at Week 24



(N=96)

Mean change from baseline in BCVA by visit

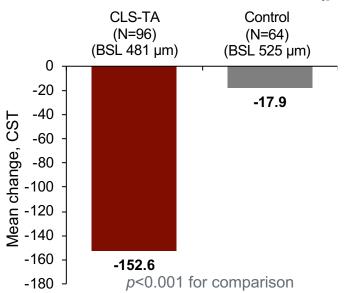


(N=64)

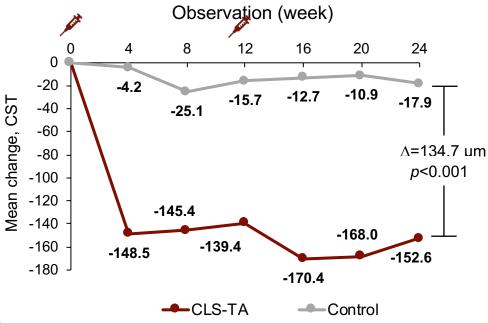
Mean Change in Central Subfield Thickness

Improvement Observed as Early as Week 4 through Week 24 in CLS-TA Arm

Mean change from baseline at week 24 in central subfield thickness (µm)



Mean change at each visit from baseline in central subfield thickness (µm)



Intention-to-treat population; last observation carried forward imputation. ANOVA with treatment, country and treatment-by-country interaction as fixed effects BSL, baseline mean value; CST, central subfield retinal thickness.

Safety

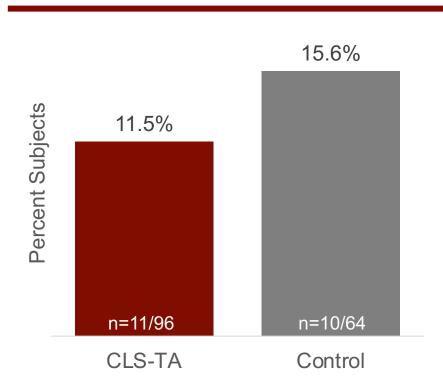
| IOP-Related Events | CLS-TA 4.0 mg N = 96 | Control N = 64 |
|---|-------------------------|------------------------|
| Elevated IOP adverse events | 11 (11.5%) | 10 (15.6%) |
| IOP elevation ≥10 mmHg change from baseline at any visit* | 9 (9.4%) | <mark>7 (10.9%)</mark> |
| IOP elevation ≥30 mmHg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

One serious ocular AE

- Retinal detachment 8 weeks after CLS-TA, in different quadrant
- Determined to be unrelated to study drug by the Investigator

Cataract: 7.3% (7/96) in the CLS-TA arm vs. 6.3% (4/64) in the sham arm

Elevated IOP Adverse Events in PEACHTREE

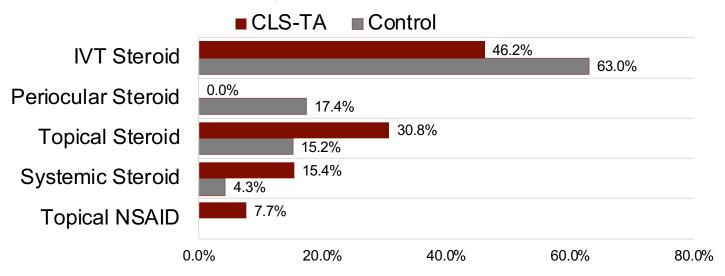


- Why are IOP AEs higher in the control group?
 - 46/64 (72%) control patients received rescue therapy
 - All 10 patients with IOP
 AEs received local
 corticosteroids as rescue
 therapy

"Elevated IOP" includes (a) increased IOP, (b) ocular hypertension, and (c) glaucoma. AE, adverse event; IOP, intraocular pressure.

Rescue Therapy Rates: CLS-TA (n=13) vs. Control (n=46)

Most Targeted (Localized) Subsequent Medication*
Used Rates, CLS-TA vs. Control



^{*}Rescue medications classified by most targeted type of therapy used during study, where:
Intravitreal Corticosteroid > Periocular corticosteroid > Topical Corticosteroid > Systemic Corticosteroid > Topical NSAID

Post-Hoc Analysis. Rescue medication used per investigator discretion.

Sub-Analysis of IOP in PEACHTREE

Purpose: Characterize IOP in CLS-TA and control groups, in patients

that were rescued versus those not rescued

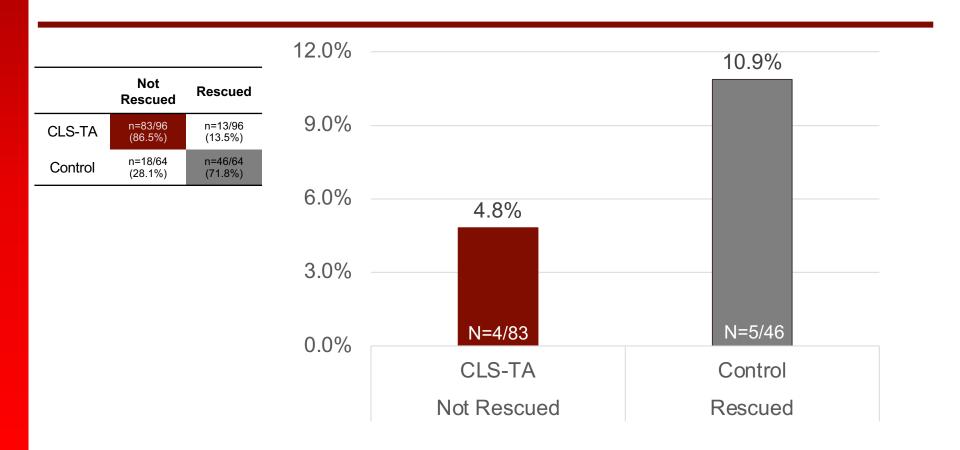
Method: Analyze IOP AEs for the clinically relevant endpoints of

≥30 mmHg IOP at any visit and ≥1 IOP lowering medication

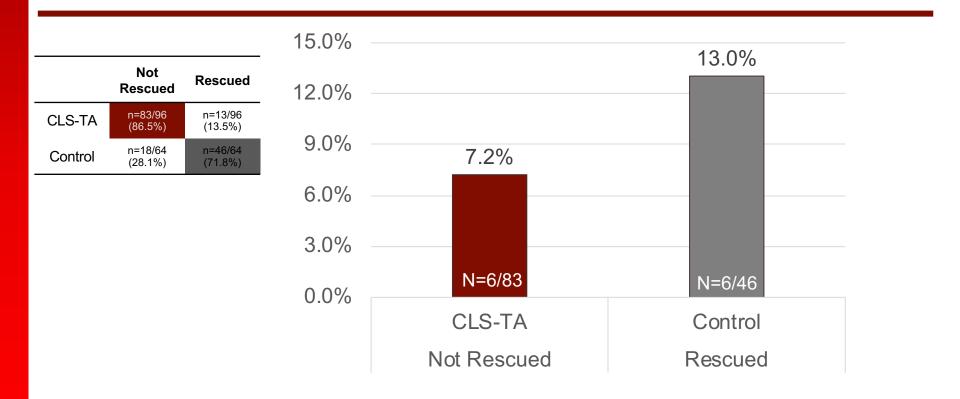
Four (4) subgroups analyzed:

| | Not Rescued | Rescued |
|---------|-----------------|-----------------|
| CLS-TA | n=83/96 (86.5%) | n=13/96 (13.5%) |
| Control | n=18/64 (28.1%) | n=46/64 (71.9%) |

≥ 30 mmHg IOP at any visit through 24-weeks



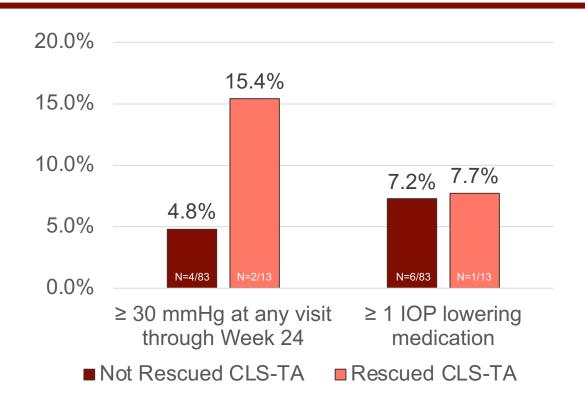
≥ 1 IOP lowering medication* through 24-weeks



*IOP lowering medications administered for 30 days or more

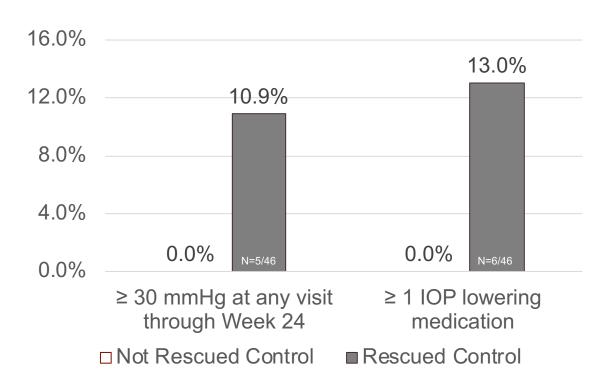
IOP Rates CLS-TA patients not rescued (n=83) vs rescued (n=13)

| | Not Rescued | Rescued |
|---------|--------------------|--------------------|
| CLS-TA | n=83/96 (86.5%) | n=13/96 (13.5%) |
| Control | n=18/64 (28.1%) | n=46/64 (71.8%) |



IOP Rates: Control patients not rescued (n=18) vs rescued (n=46)

| | Not Rescued | Rescued |
|---------|--------------------|--------------------|
| CLS-TA | n=83/96 (86.5%) | n=13/96 (13.5%) |
| Control | n=18/64 (28.1%) | n=46/64 (71.8%) |



PEACHTREE Study Take Home Points

Efficacy

- Primary endpoint was met, with ~47% of patients gaining ≥15 ETDRS letters
- Suprachoroidally injected CLS-TA significantly improved vision and macular edema in noninfectious uveitis at all anatomical locations

Safety

- No SAEs attributable to CLS-TA
- Low rates of elevated IOP and cataract
- Cataract rate was similar to that in the control arm
- No surgical intervention for an elevated IOP adverse event