

# Suprachoroidal CLS-TA Maintains Efficacy Outcomes Through 48-weeks in Uveitic Macular Edema subjects: Results of the **MAGNOLIA** Phase 3 Extension Study

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# Financial Disclosures

## **Grant Support**

- Clearside
- Gilead
- Santen
- NEI

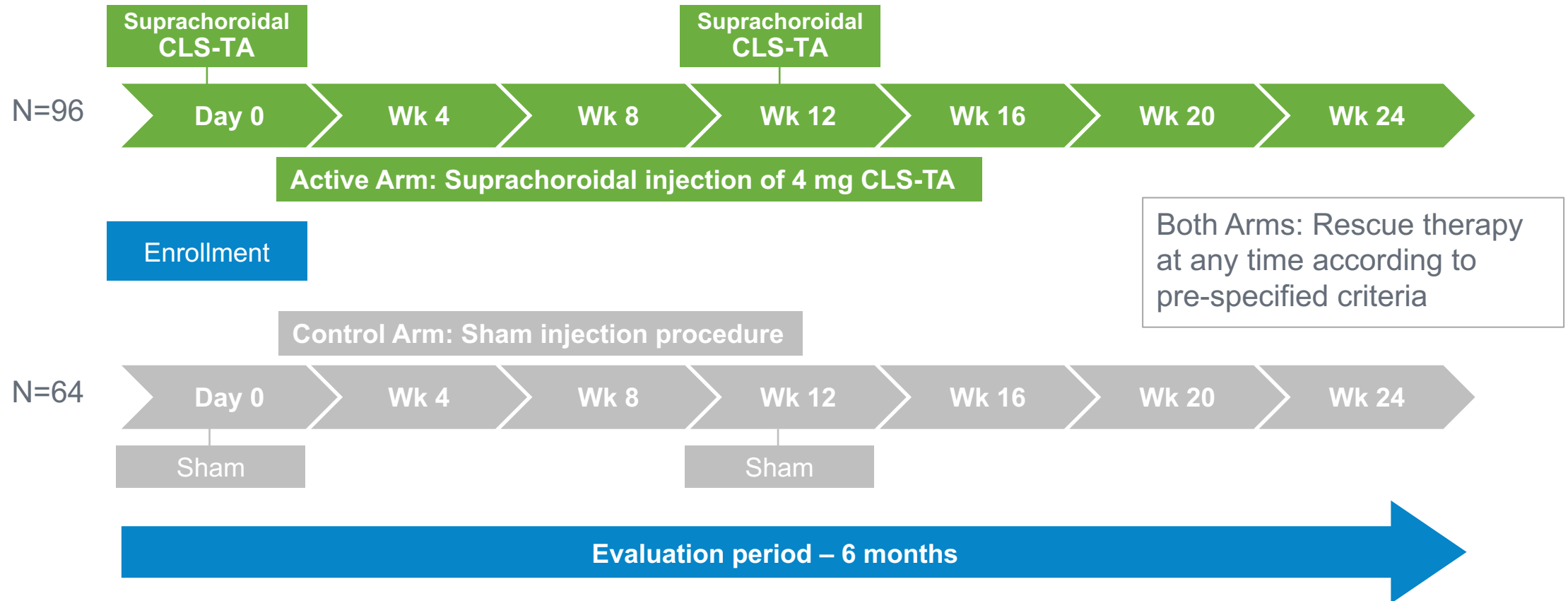
## **Consultant/Advisor**

- Eyepoint
- Alimera
- Allergan

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

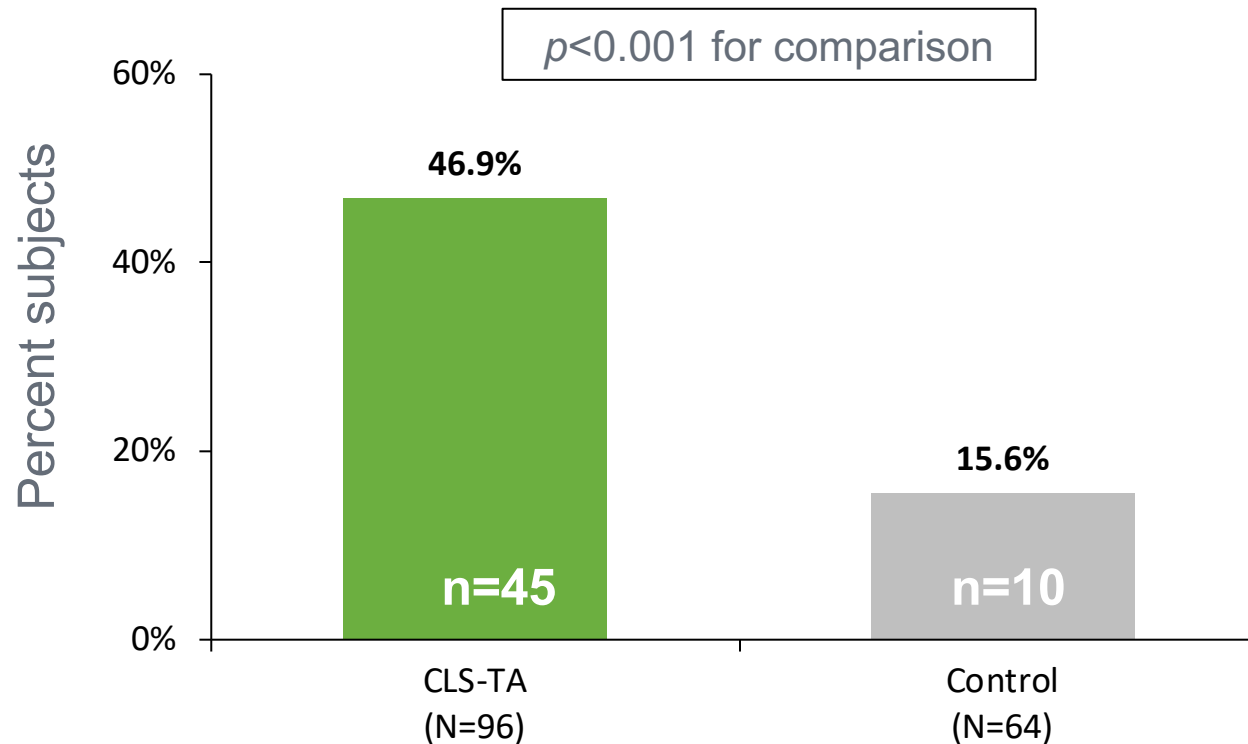


## Visual acuity primary endpoint



# PEACHTREE Met Its Primary Efficacy Endpoint

Subjects gaining  $\geq 15$  ETDRS letters from baseline, %



Intention-to-treat population; LOCF imputation.

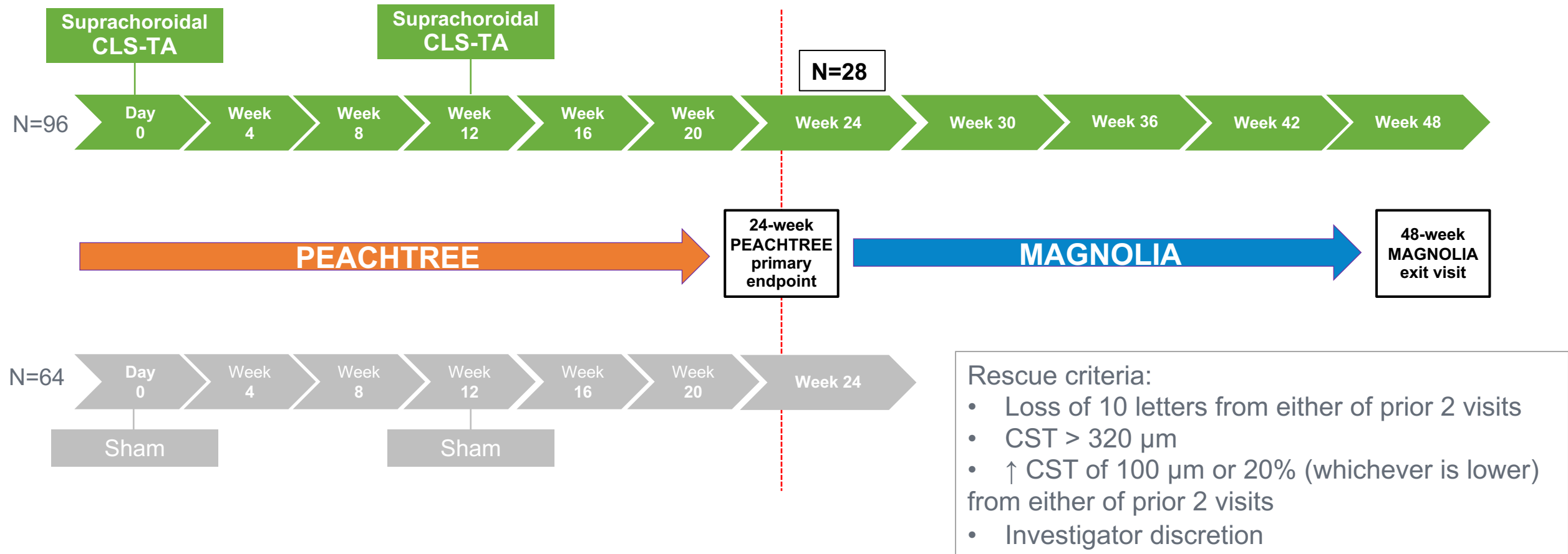
The p-value is based on a Cochran-Mantel-Haenszel test for general association between treatment and response with stratification by country.

ETDRS, Early treatment diabetic retinopathy study; LOCF, last observation carried forward.

# MAGNOLIA: Prospective, Non-interventional, Masked, Observational 24-week Extension Trial



- To be eligible for MAGNOLIA, subjects must have completed PEACHTREE and **NOT** have received rescue medication
- Primary Endpoint: Time to rescue therapy relative to Day 0 of PEACHTREE



# Baseline Characteristics

Baseline characteristics of PEACHTREE (Week 0)

Baseline characteristics of MAGNOLIA (Week 24)

Characteristic	PEACHTREE CLS-TA N=28	MAGNOLIA CLS-TA N=28
Gender, % (n)		
Male	50.0 (14)	50.0 (14)
Female	50.0 (14)	50.0 (14)
Age (years), mean (SD)	48.1 (15.0)	48.6 (15.0)
BCVA, study eye (ETDRS letters)		
Mean (SD)	55.1 (12.6)	71.9 (13.2)
Median (range)	57 (9-70)	72 (39-93)
CST, study eye (µm)		
Mean (SD)	470.6 (137.7)	292.5 (15.4)
Median (range)	472 (296-756)	259.5 (203-498)

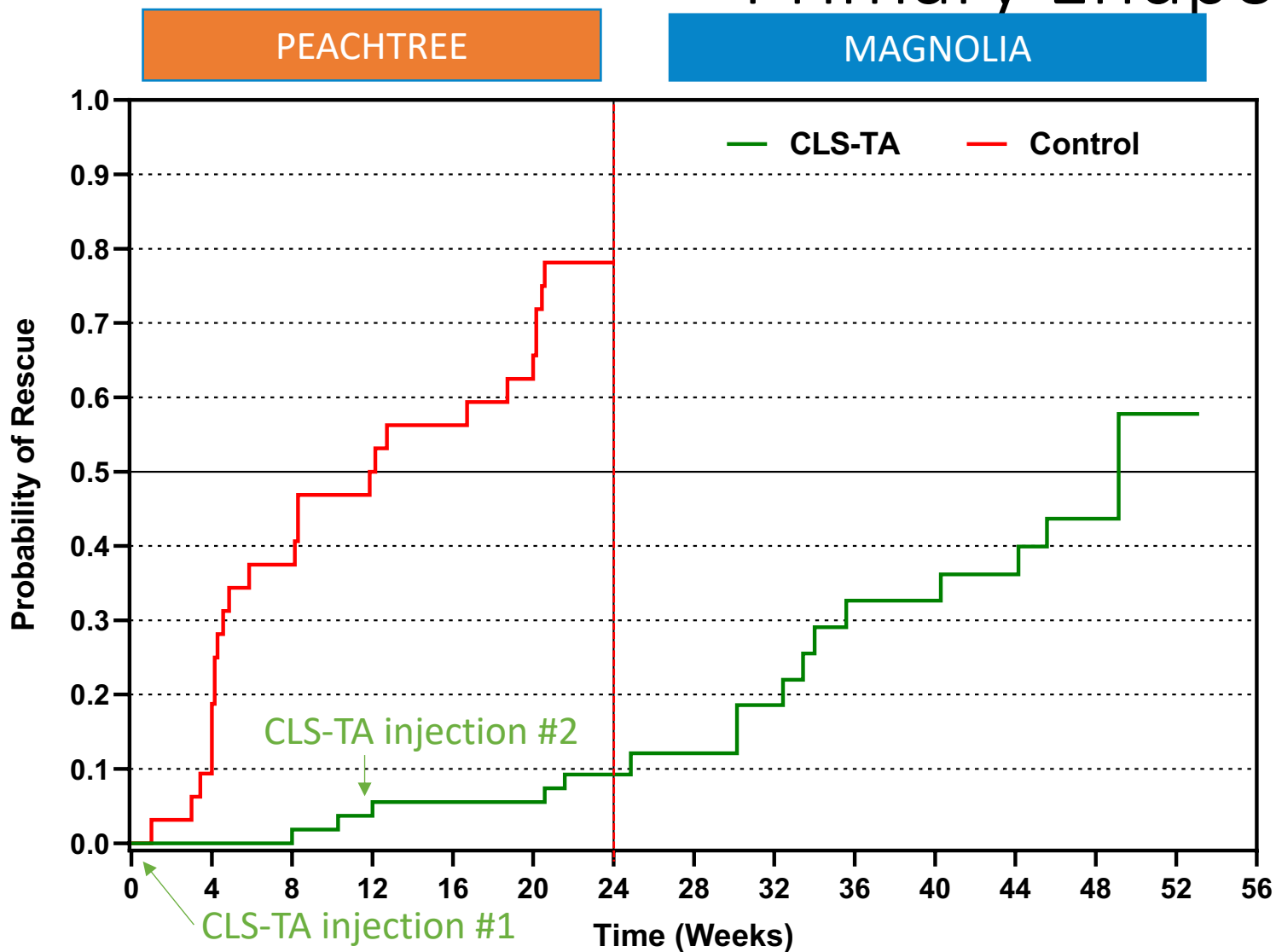
# Distribution of Uveitis Etiologies

Characteristic	PEACHTREE CLS-TA (N=96) n (%)	MAGNOLIA CLS-TA (N=28) n (%)
Idiopathic	69 (71.9)	25 (89.3)
Pars planitis	7 (7.3)	1 (3.6)
Sarcoidosis	4 (4.2)	1 (3.6)
HLA-B27 related	4 (4.2)	0
Birdshot Retinochoroidopathy	2 (2.1)	1 (3.6)
Juvenile Idiopathic Arthritis	2 (2.1)	1 (3.6)
Reactive Arthritis	2 (2.1)	0
Vogt-Koyanagi-Harada Syndrome	1 (1.0)	0
Behcet's Syndrome	1 (1.0)	0
Other	3 (3.1)	0

**Distribution of uveitis etiologies was similar across treatment arms,  
with most cases being idiopathic**

# Kaplan-Meier Plot of Time to First Rescue

## Primary Endpoint

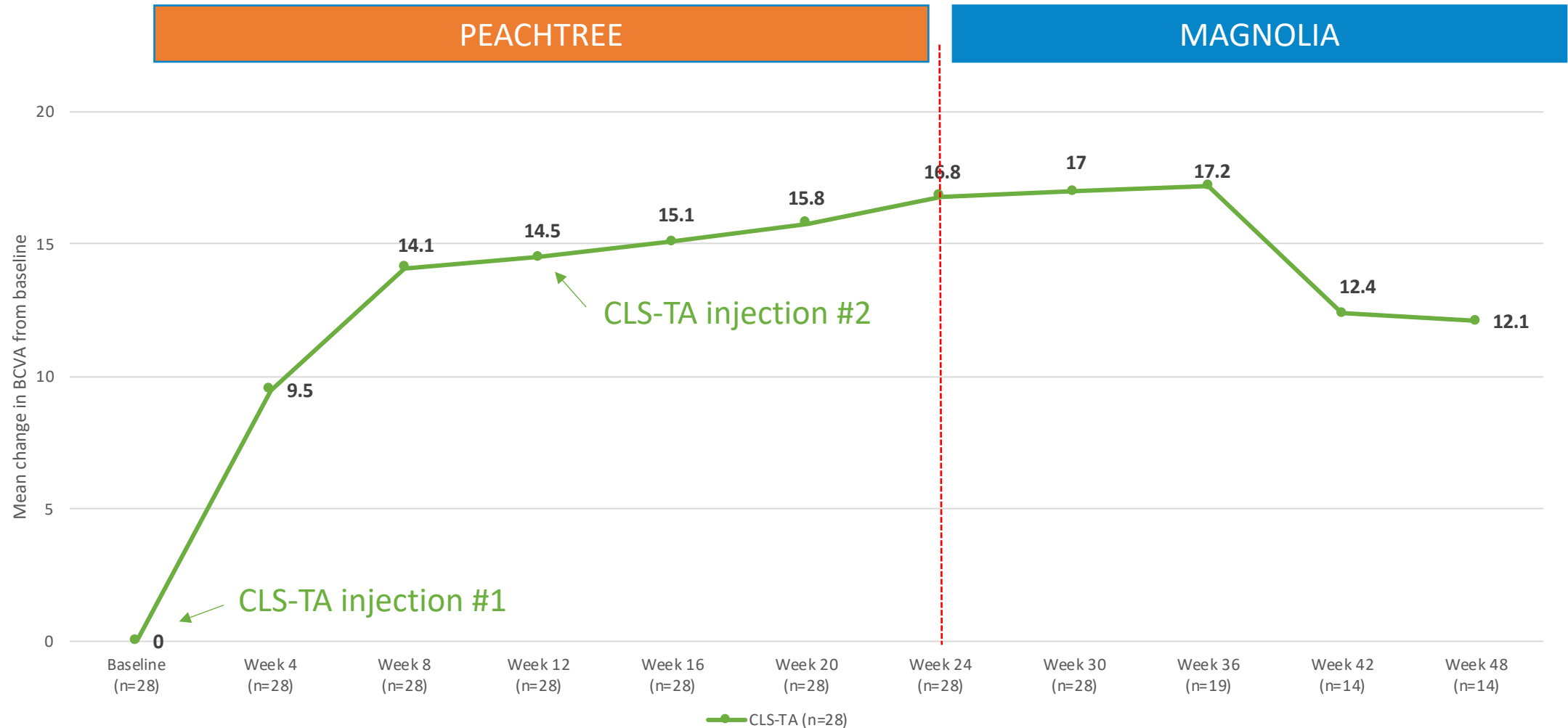


- **50% of CLS-TA subjects did not receive any additional medication through Week 48**
- **9 months from last CLS-TA dose**

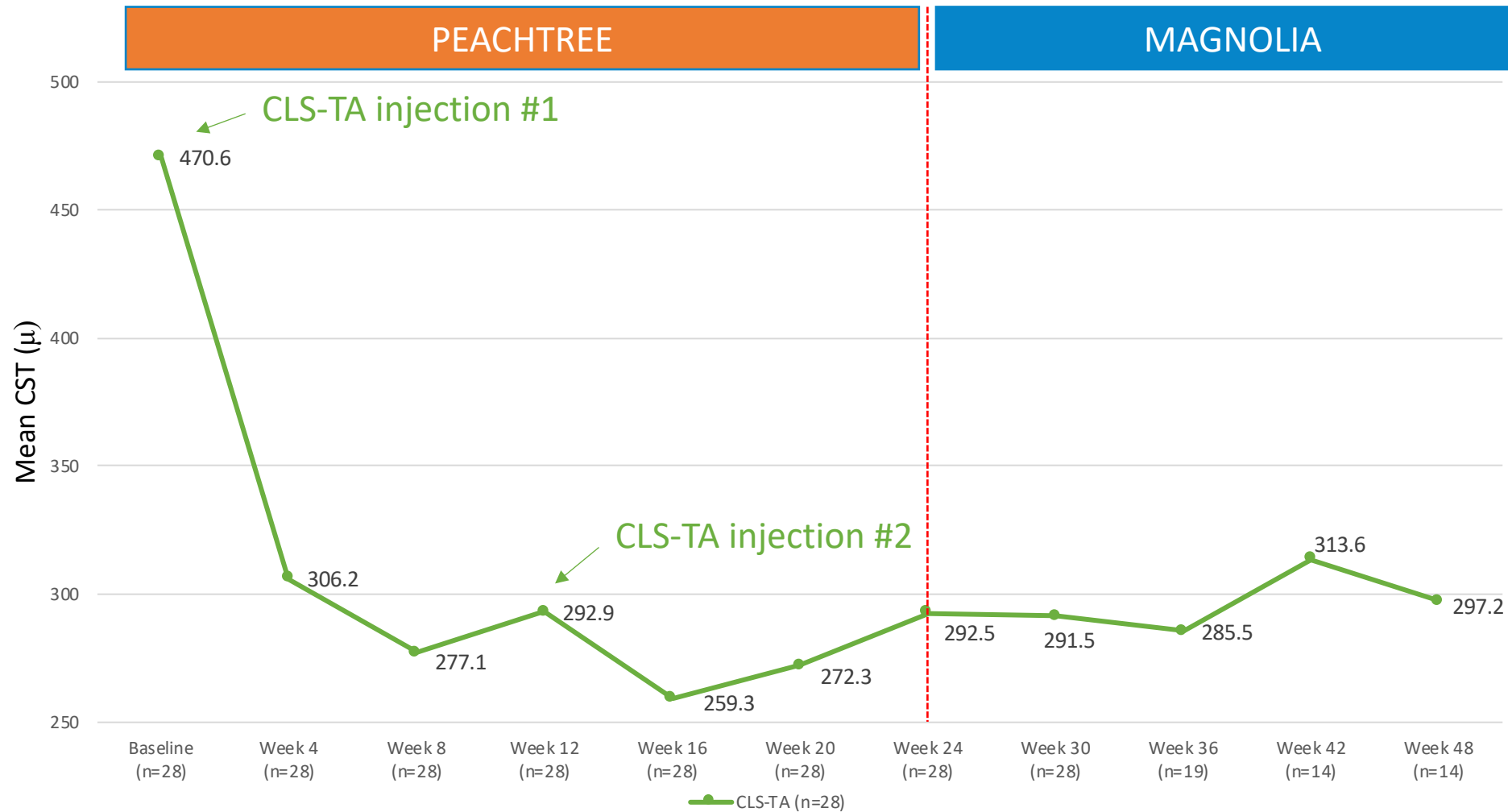
Control	29	20	16	14	12	5							
CLS-TA	54	54	52	51	51	48	28	24	19	19	17	12	1
	Number at Risk												



# Mean Change in BCVA from Baseline through Week 48



# Mean Central Subfield Thickness (CST) through Week 48



# Ocular Adverse Events for Study Eye

Event	PEACHTREE CLS-TA (N=28) n (%)	MAGNOLIA CLS-TA (N=28) n (%)
Anterior capsule contraction	1 (3.6)	0 (0)
Cataract	0 (0)	1 (3.6)
Cataract nuclear	0 (0)	1 (3.6)
Cataract subcapsular	3 (10.7)	2 (7.1)
Conjunctival hemorrhage	1 (3.6)	0 (0)
Dry Eye	1 (3.6)	0 (0)
Eye Pain	1 (3.6)	0 (0)
Injection Site Pain	1 (3.6)	0 (0)
Vitreous hemorrhage	0 (0)	1 (3.6)
Retinoschisis	0 (0)	1 (3.6)
Uveitis	0 (0)	3 (10.7)
Macular edema	0 (0)	1 (3.6)
Cystoid macular edema	0 (0)	2 (7.1)
Post procedural inflammation	0 (0)	1 (3.6)
Tumor hemorrhage	0 (0)	1 (3.6)

# Summary of Adverse Reactions of Elevated IOP

IOP-related Outcome, % (n)	PEACHTREE CLS-TA (N=28) n (%)	MAGNOLIA CLS-TA (N=28) n (%)
IOP elevation $\geq 10$ mmHg above baseline at any visit	3 (10.7)	1 (3.6)
$\geq 30$ mmHg at any visit	0 (0)	1 (3.6)
Given IOP lowering meds	1 (3.6)	1 (3.6)
Any surgical intervention for an elevated IOP AE	0 (0)	0 (0)

# Non-ocular adverse events

Event	PEACHTREE CLS-TA (N=28) % (n)	MAGNOLIA CLS-TA (N=28) % (n)
Nausea	1 (3.6)	0 (0)
Periodontal disease	1 (3.6)	0 (0)
Oesophageal achalasia	0 (0)	1 (3.6)
Nasopharyngitis	1 (3.6)	0 (0)
Oophoritis	1 (3.6)	0 (0)
Respiratory tract infection	1 (3.6)	0 (0)
Sinusitis	1 (3.6)	0 (0)
Nail bed infection	0 (0)	1 (3.6)
Pneumonia	0(0)	1 (3.6)
Septic shock	0(0)	1 (3.6)
Headache	1 (3.6)	0 (0)
Acute kidney injury	0 (0)	1 (3.6)
Acute respiratory failure	0 (0)	1 (3.6)
Pneumonia aspiration	0 (0)	1 (3.6)

There were no SAEs related to study medication



# MAGNOLIA: Take Home Points

## **Efficacy**

- 50% of subjects did not receive additional medication through week 48
  - 36 weeks after their last injection of CLS-TA
- Suprachoroidally injected CLS-TA significantly improved vision (~12 letters)
- Suprachoroidally injected CLS-TA significantly improved macular edema (~170 microns)

## **Safety**

- There were no SAEs related to study medication
- Elevations in IOP were consistent with those seen in the PEACHTREE trial and were low

Thank you

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