

A 12-week Phase 2/3 Double-masked, Randomized, Multicenter Study of OCS-01 OPTIREACH® Technology Topical Dexamethasone Eye Drops in Subjects with Diabetic Macular Edema (DME): Efficacy and Safety Findings

Ramin Tadayoni MD¹, David S. Boyer MD, Sabri Markabi MD, Bastian Dehmel MD, Pravin Dugel MD, Arshad M. Khanani MD

on behalf of the DIAMOND (DX-219) study group

¹Professor of Ophthalmology, Université Paris Cité
Head of the Department of Ophthalmology at Lariboisière,
Rothschild Foundation Hospitals, Paris, France

Relevant Financial Disclosures

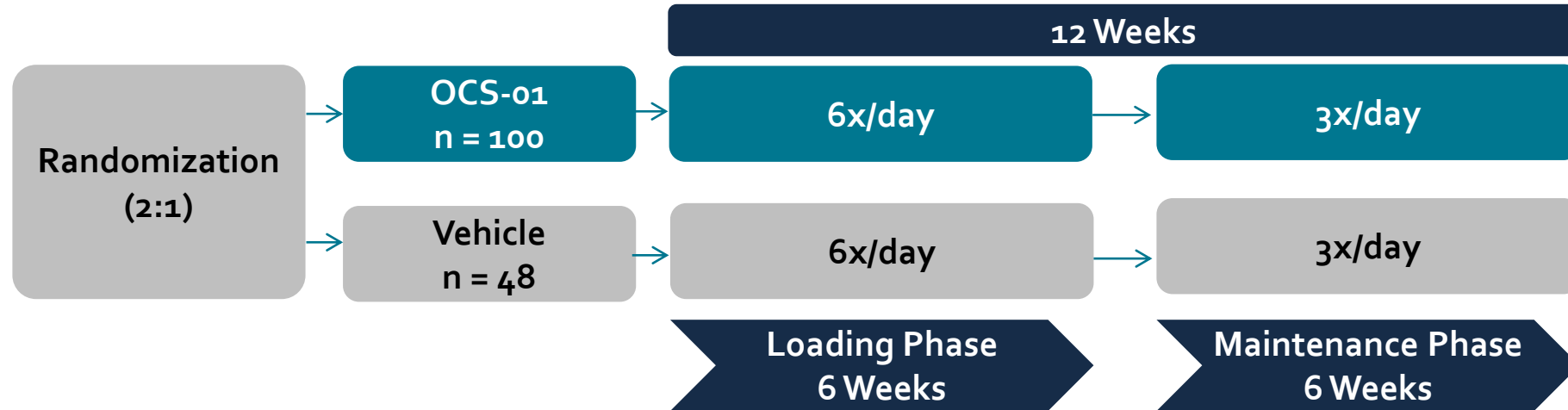
Study Disclosures

- Study funded by Oculis
- Study includes research conducted on human subjects
- Institutional Review Board approval was obtained prior to study initiation

- Abbvie / Allergan
- Alcon
- Apellis
- Bayer
- Boehringer Ingelheim
- Genentech
- Iveric Bio
- Novartis
- **Oculis**
- Roche
- Thea
- Zeiss

DIAMOND (DX-219) Evaluated OCS-01 in Patients With DME

Stage 1 of a multicenter, randomized, double-masked, vehicle-controlled, two-stage phase 2/3 study of OCS-01 (OPTIREACH®-dexamethasone 15 mg/mL ophthalmic formulation) conducted at 39 US and European sites



Key Inclusion Criteria

- Age 18-85 years
- Type 1 or 2 DM
- BCVA \leq 65 ETDRS (20/50 - 20/320)
- CMT \geq 310 μ m
- Previous treatment allowed (washout)

Endpoints

Primary endpoint: Mean change in BCVA ETDRS letters score from baseline at 6 weeks

- Mean change in BCVA from baseline at 12 weeks
- Percentage of patients with a \geq 3-line gain in BCVA at 6 and 12 weeks
- Mean change in CST assessed by SD-OCT at 6 and 12 weeks
- Adverse events

Baseline Demographics Were Well-Balanced Between the 2 Arms

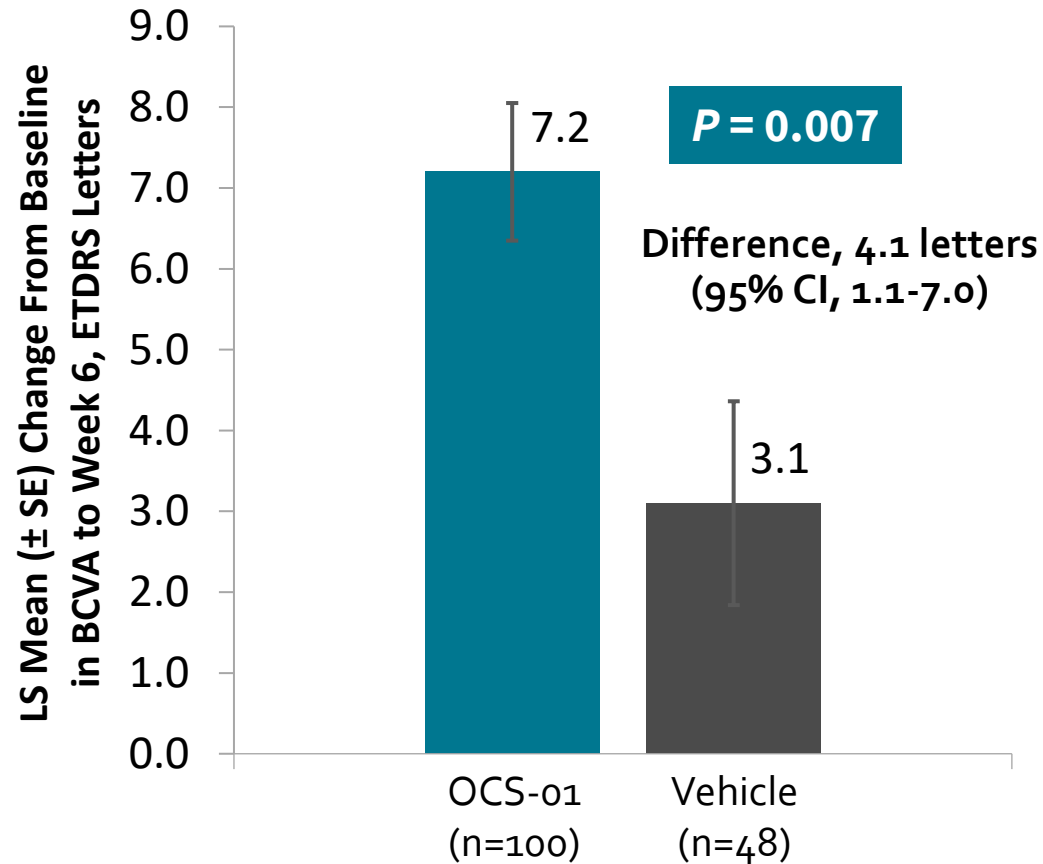
Parameter	OCS-01 (n =100)	Vehicle (n=48)
Age, mean (SD), years	61.9 (9.0)	63.9 (7.3)
Male, n (%)	53 (53.0)	26 (54.2)
Duration of DME, mean (SD), years	2.0 (2.6)	1.9 (2.7)
BCVA, mean (SD), ETDRS letter score	57.5 (9.3)	58.3 (7.5)
CST, mean (SD), μm	453.0 (131.8)	445.3 (112.5)
IOP, mean (SD), mm Hg	15.3 (3.0)	14.7 (3.0)

BCVA, best corrected visual acuity; CST, central subfield thickness; DME, diabetic macular edema; ETDRS, Early Treatment Diabetic Retinopathy Study; Hg, mercury; IOP, intraocular pressure; SD, standard deviation.

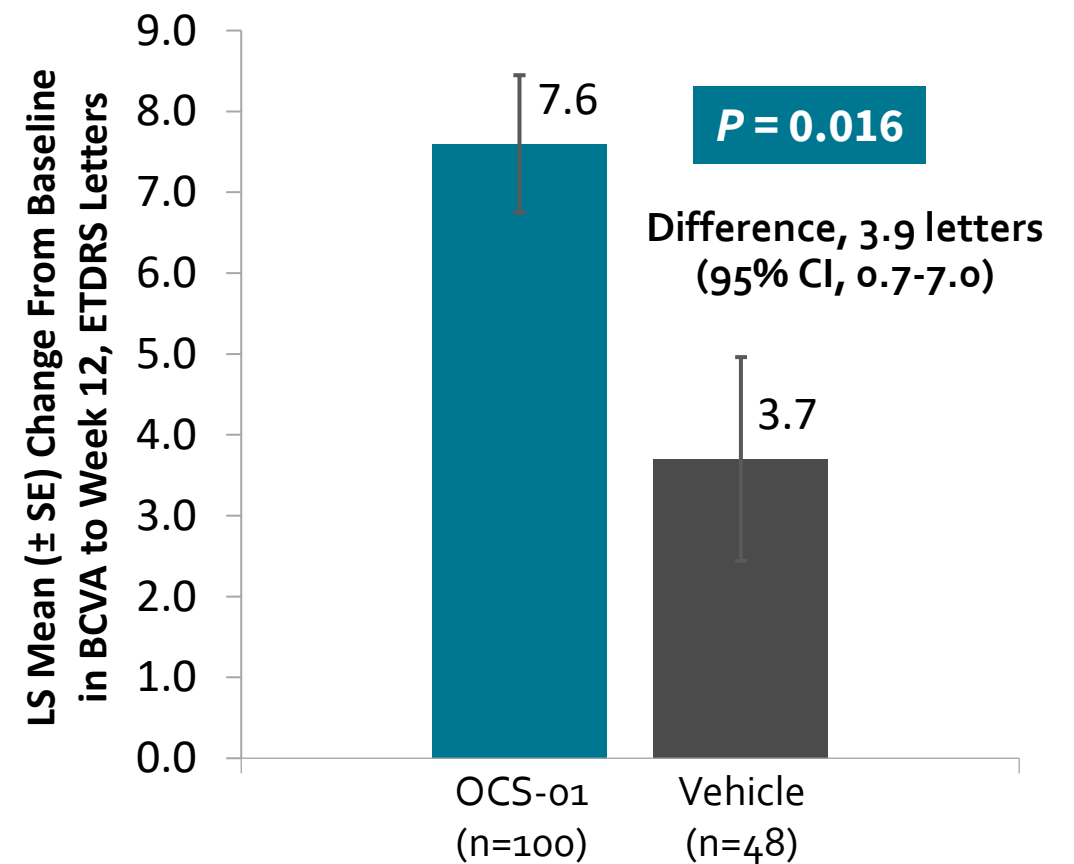
Patients on OCS-01 Had a Significant Improvement in Mean BCVA from Baseline at Weeks 6 and 12 vs Vehicle

ITT population

Change in BCVA From Baseline to Week 6 (Primary Endpoint)



Change in BCVA From Baseline to Week 12

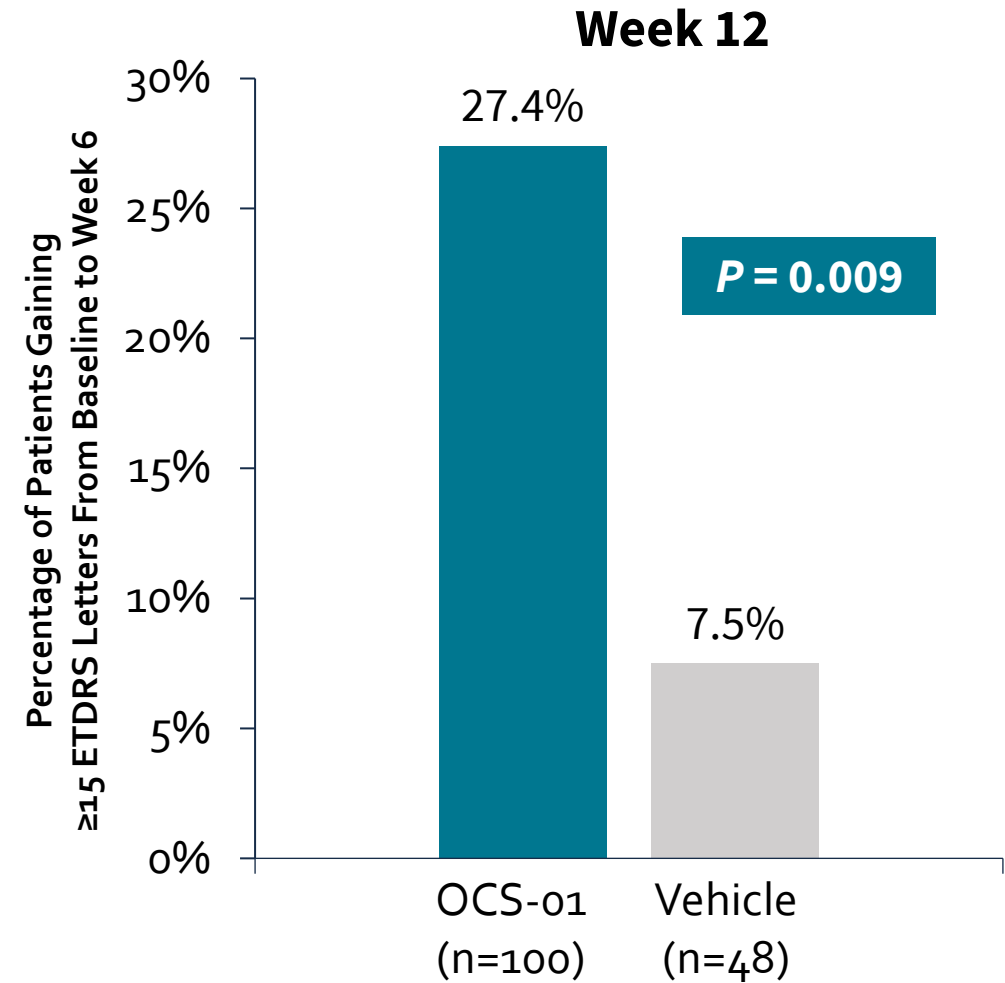
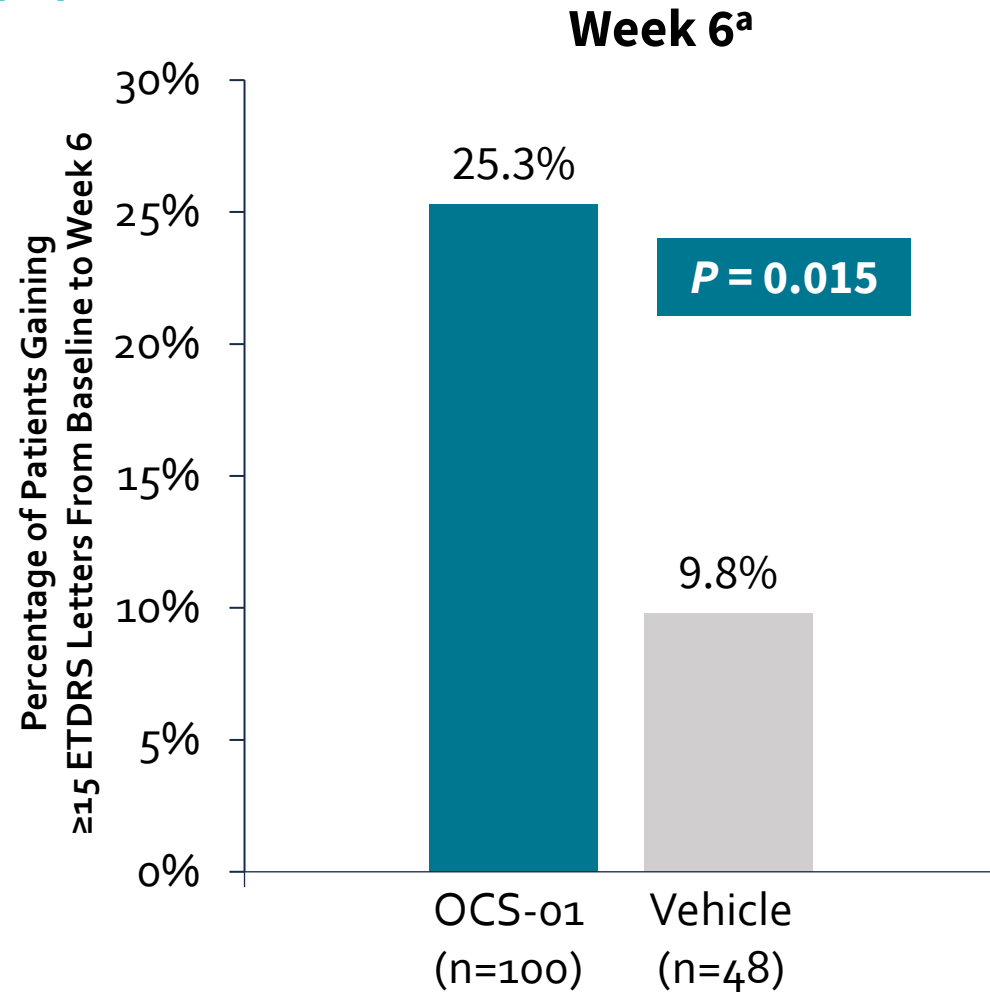


Imputation rules are applied based on a pattern-mixture model approach.

BCVA, best corrected visual acuity; CI, confidence interval; ETDRS, Early Treatment Diabetic Retinopathy Study; ITT, intention-to-treat; LS, least squares; SE, standard error.

Significantly More Patients on OCS-01 Had a ≥ 3 -line ETDRS Improvement vs Vehicle

ITT population



^a There was no loss of ≥ 3 lines (>15 ETDRS letters) from baseline to Week 6 in either treatment group.

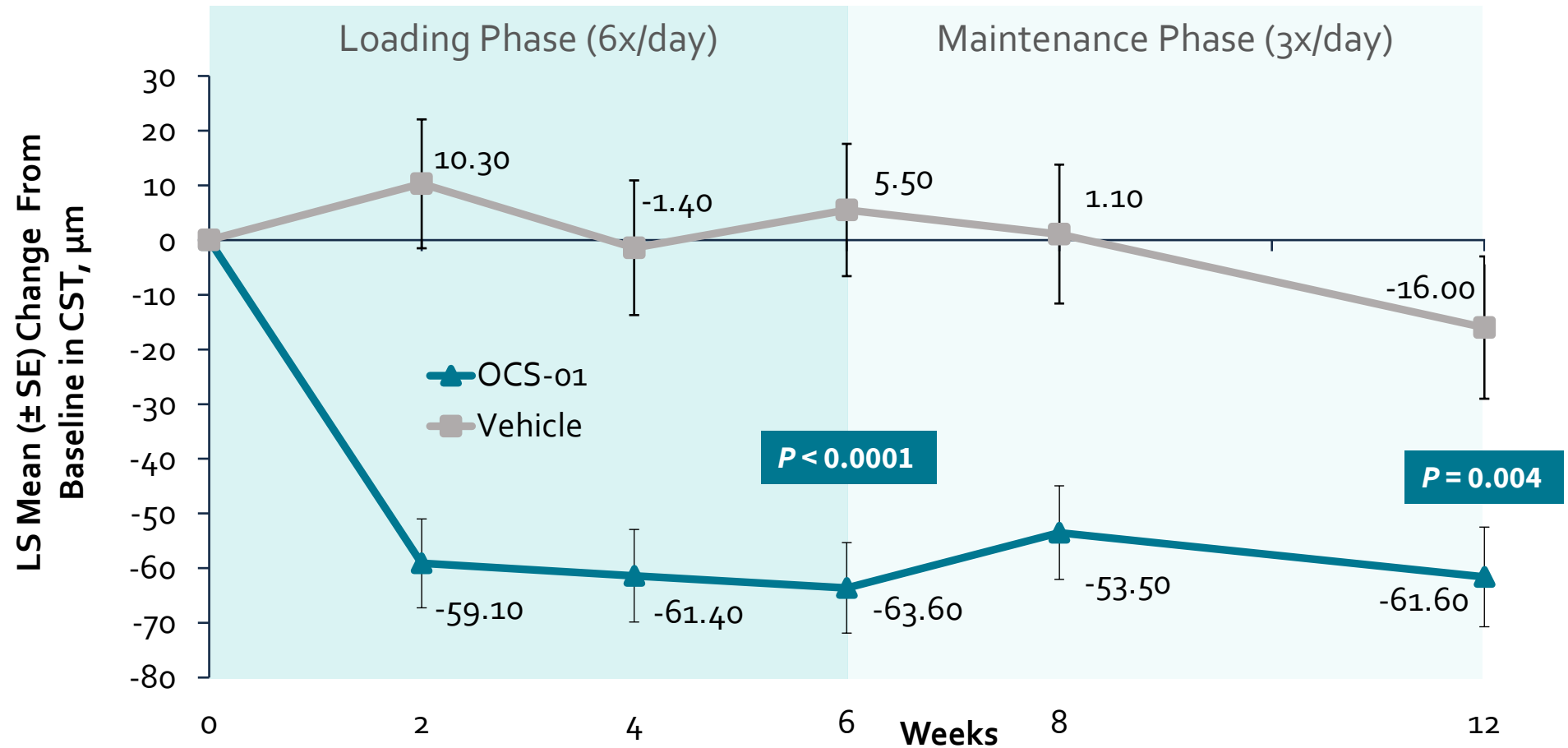
P-value is based on difference in marginal effects.

Imputation rules are applied based on a pattern-mixture model approach.

ETDRS, Early Treatment Diabetic Retinopathy Study; ITT, intention-to-treat.

Effects of OCS-01 on Retinal Thickness (CST) Were Observed Early and Maintained Throughout the Study

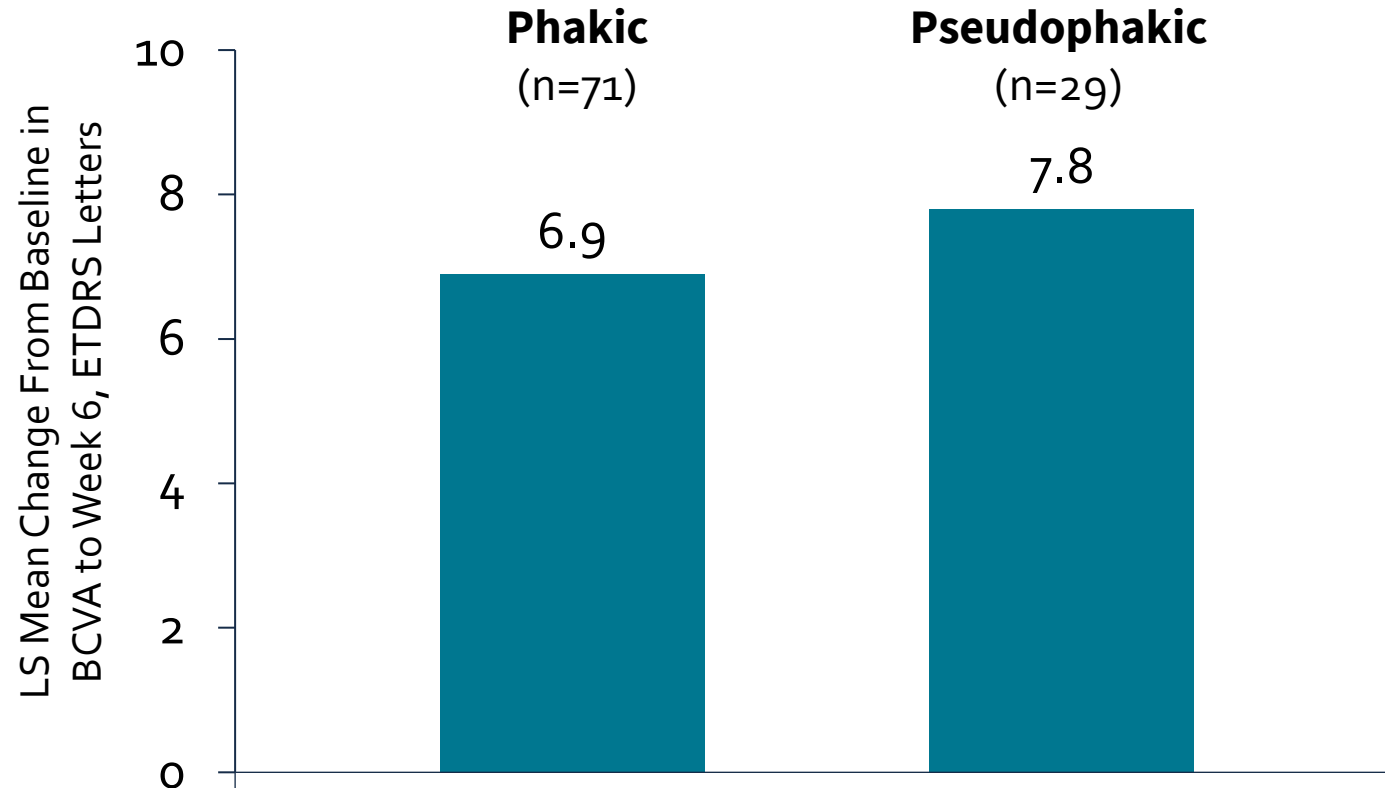
Significant reductions in CST measured at weeks 6 and 12 for OCS-01 vs vehicle in the ITT population



Mean (SD) baseline CST: OCS-01, 453.0 (131.81) µm; vehicle, 445.3 (112.46) µm.
Imputation rules are applied based on a pattern-mixture model approach.
Data, analysis, and conclusions are preliminary, and subject to change as full analysis is ongoing.
CST, central subfield thickness; ITT, intention-to-treat; LS, least squares; SE, standard error.

BCVA Change From Baseline to Week 6 According to Lens Status for OCS-01

ITT population (post-hoc analysis)



Imputation rules are applied based on a pattern-mixture model approach.

BCVA, best corrected visual acuity; ETDRS, Early Treatment Diabetic Retinopathy Study; ITT, intention-to-treat; LS, least squares..

OCS-01 Was Well-tolerated With No Unexpected AEs

Safety population

Treatment Emergent Adverse Events

> 2.0% in the OCS-01 Arm or > 4.0% in the Vehicle Arm	OCS-01 (n=100) n (%)	Vehicle (n=48) n (%)
Any TEAE	70 (70.0)	30 (62.5)
Diabetic retinal edema	10 (10.0)	9 (18.8)
Intraocular pressure increased	14 (14.0)	1 (2.1)
Hypertension	10 (10.0)	1 (2.1)
Ocular hypertension	8 (8.0)	0 (0.0)
Macular edema	2 (2.0)	4 (8.3)
COVID-19	2 (2.0)	2 (4.2)
Dry eye	3 (3.0)	1 (2.1)
Diabetes mellitus	3 (3.0)	0 (0.0)
Dizziness	3 (3.0)	0 (0.0)
Dysgeusia	3 (3.0)	0 (0.0)
Nasopharyngitis	2 (2.0)	1 (2.1)
Type 2 diabetes	2 (2.0)	1 (2.1)
Vitreous hemorrhage	2 (2.0)	1 (2.1)
Arthralgia	2 (2.0)	0 (0.0)
Blood glucose increased	2 (2.0)	0 (0.0)
Visual acuity reduced	1 (1.0)	2 (4.2)

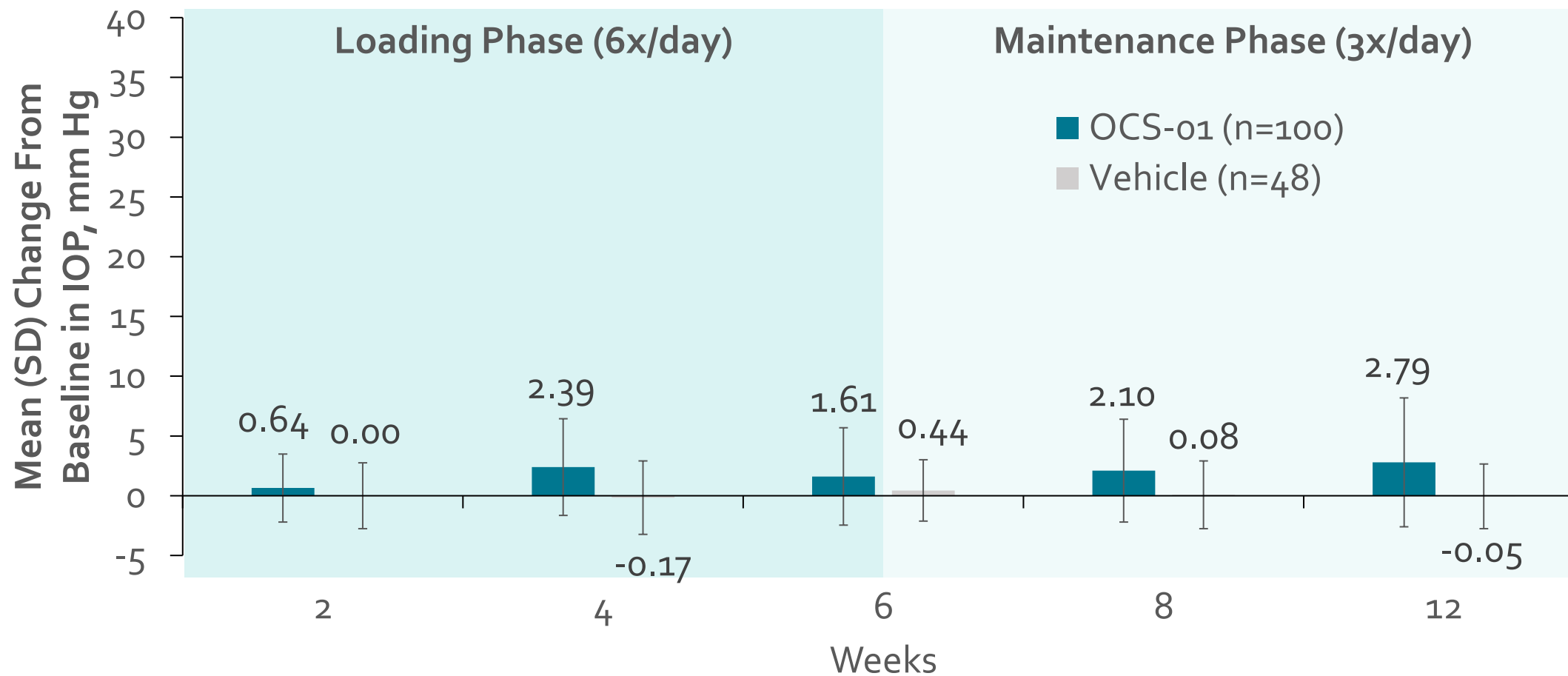
Treatment Emergent Serious Adverse Events

	OCS-01 (n=100) n (%)	Vehicle (n=48) n (%)
Any ocular SAE	1 (1.0)	0 (0.0)
Vitreous hemorrhage	1 (1.0)	0 (0.0)
Any non-ocular SAE	4 (4.0)	3 (6.3)
Death	1 (1.0)	0 (0.0)

- None of the SAEs reported were deemed related to study drug
- No evidence of cataract formation up to 12 weeks
- IOP increase consistent with literature
- Minimal mean IOP increase was similar across loading and maintenance phases

Mean Change in IOP Over Time

Safety population



Mean (SD) baseline IOP: OCS-01, 15.3 (3.1) mm Hg; vehicle, 14.7 (3.0) mm Hg.
IOP, intraocular pressure; SD, standard deviation.

Summary

OCS-01 Holds the Potential to Address the Current Treatment Gap and Provide a Non-invasive Therapeutic Approach for DME

Stage 1 of the DIAMOND Phase 3 study met its prespecified objective to enable the selection of a dosing regimen for stage 2



Loading with 6 and Maintenance with 3 drops/day is an effective dosing regimen as proven by analysis at Weeks 6 and 12



6 times a day dosing of OCS-01 was a highly effective **Loading Dose**:

- Improved visual acuity
- Increased rate of patients with a clinically relevant ≥ 3 -line improvement in BCVA
- Reduced macular edema



3 times a day dosing of OCS-01 was found to be an effective **Maintenance Dose**

No unexpected safety findings were observed

