

FORWARD LOOKING STATEMENTS

Any statements in this presentation about future expectations, plans, and prospects for the Company, including the commercialization of DEXTENZA® or any of the Company's products or product candidates; the development and regulatory status of the Company's product candidates, such as the Company's development of OTX-TKI for the treatment of retinal diseases including wet AMD and diabetic retinopathy; the Company's plans to advance the development of OTX-TKI; the ongoing development of the Company's extended-delivery hydrogel depot technology; the potential utility of any of the Company's product candidates; the size of the potential market for OTX-TKI; the Company's ability to fund the planned and future clinical development of its product candidates whether through strategic alliances or other fundraising; the Company's ability to enter into and perform its obligations under collaborations; the sufficiency of the Company's cash resources; and other statements containing the words "anticipate," "believe," "estimate," "expect," "intend", "goal," "may", "might," "plan," "predict," "project," "target," "potential," "will," "would," "could," "should," "continue," and similar expressions, constitute forwardlooking statements within the meaning of The Private Securities Litigation Reform Act of 1995. Actual results may differ materially from those indicated by such forward-looking statements as a result of various important factors. Such forward-looking statements involve substantial risks and uncertainties that could cause the Company's preclinical and clinical development programs, future results, performance or achievements to differ significantly from those expressed or implied by the forward-looking statements. Such risks and uncertainties include, among others, the timing and costs involved in commercializing DEXTENZA or any product or product candidate that receives regulatory approval, including the conduct of post-approval studies, the ability to retain regulatory approval of DEXTENZA or any product or product candidate that receives regulatory approval, the ability to maintain and the sufficiency of product, procedure and any other reimbursement codes for DEXTENZA, the initiation, timing, conduct and outcomes of clinical trials, whether interim clinical trial data such as the data reported in this presentation will be indicative of the results of the trial upon its completion or subsequent clinical trials in this and other indications, availability of data from clinical trials and expectations for regulatory submissions and approvals, the Company's scientific approach and general development progress, the sufficiency of cash resources, the Company's existing indebtedness, the ability of the Company's creditors to accelerate the maturity of such indebtedness upon the occurrence of certain events of default, the severity and duration of the COVID-19 pandemic including its effect on the Company's revenues and relevant regulatory authorities' operations, the Company's ability to enter into strategic alliances or generate additional funding on a timely basis, on favorable terms, or at all, the Company's ability to recruit and retain key personnel, and other factors discussed in the "Risk Factors" section contained in the Company's quarterly and annual reports on file with the Securities and Exchange Commission. In addition, the forward-looking statements included in this presentation represent the Company's views as of the date of this presentation. The Company anticipates that subsequent events and developments will cause the Company's views to change. However, while the Company may elect to update these forward-looking statements at some point in the future, the Company specifically disclaims any obligation to do so, whether as a result of new information, future events or otherwise, except as required by law. These forward-looking statements should not be relied upon as representing the Company's views as of any date subsequent to the date of this presentation.

This presentation discusses investigational products in development. Their efficacy and safety profiles have not been established, and they have not been approved for marketing by the FDA.



OTX-TKI: HYDROGEL DELIVERY OF AXITINIB

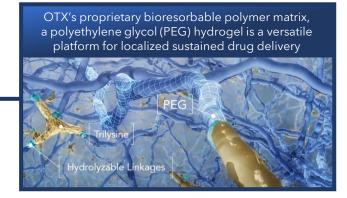
HYDROGEL DELIVERY PLATFORM

BIORESORBABLE, TARGETED, SUSTAINED DRUG DELIVERY



AXITINIB

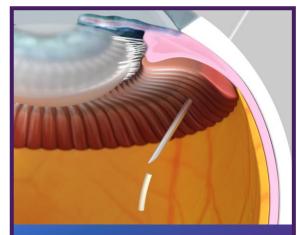
MULTI-TARGET TYROSINE KINASE INHIBITOR FOR RETINAL VASCULAR DISEASES



| | and PDGF receptors with high affinity and low solubility compared to other ocular TKIs ¹ | | |
|--|---|---|--|
| | Drug | Inhibitory Concentrations for VEGFR2/KDR (IC ₅₀ in nM) (lower values indicate higher affinity) | |
| | Axitinib ² | 0.2 | |
| | Sunitinib ³ | 40 | |
| | Vorolanib ³ | 64 | |

Axitinib is a highly selective inhibitor of all VEGE

OTX-TKI: AXITINIB IN A HYDROGEL INTRAVITREAL IMPLANT⁴

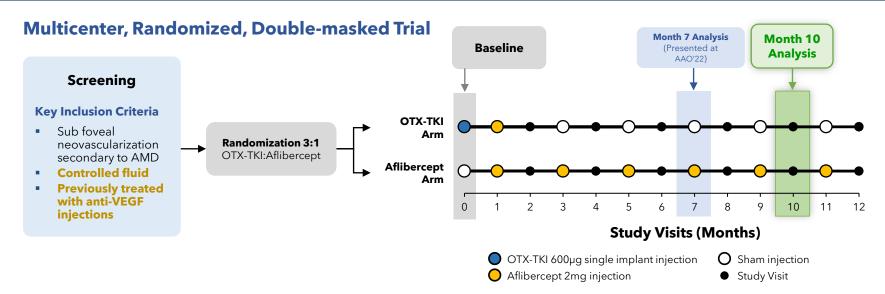


- Single implant
- Completely bioresorbable
- Target release for 6-12 months
- Administered by a 25G or smaller needle





U.S. WET AMD PHASE 1 STUDY DESIGN



Rescue Anti-VEGF Injection Criteria:

- Loss of ≥10 letters from best previous BCVA due to AMD with current BCVA worse than baseline, or
- Evidence of ≥75µm CSFT increase from previous best value and ≥5 letters loss from best previous BCVA, or
- New macular hemorrhage



BASELINE CHARACTERISTICS

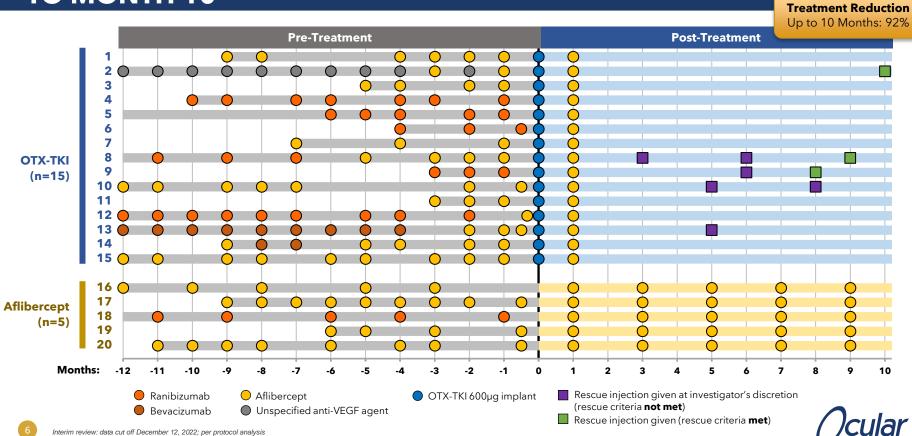
| Baseline Characteristic | OTX-TKI (N=16) [†] | Aflibercept (N=5) |
|--|--------------------------------|----------------------|
| Mean (SD) Age, Years | 76 (8) | 84 (8) |
| Male, n (%) Female, n (%) | 8 (50) 8 (50) | 3 (60) 2 (40) |
| Mean (SD) Months since wet AMD diagnosis | 18 (12) | 18 (12) |
| Mean (SD) Number of anti-VEGF Injections within 12 Months Prior to baseline* | 8 (3) | 8 (4) |
| Mean (SD) BCVA in ETDRS Letters | 70.9 (17.7) | 73.8 (9.0) |
| Mean (SD) CSFT, μm | 273.8 (43.0) | 240.6 (29.6) |

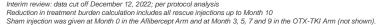
^{*}Annualized data

[†]Includes one subject not treated per protocol who has been removed from efficacy analysis as subject incorrectly received aflibercept instead of sham injection at Month 3 and 5 visits



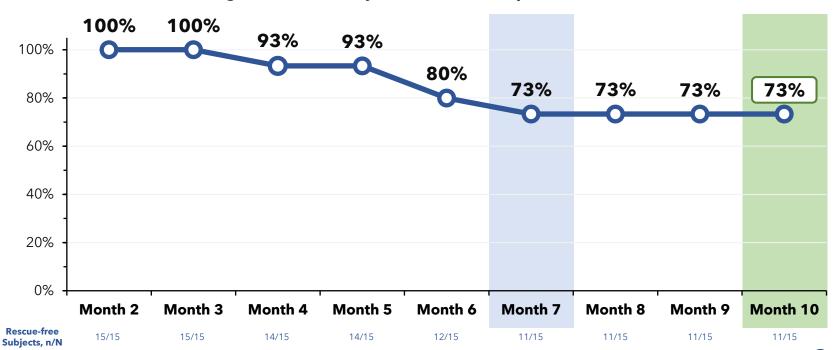
REDUCTION IN ANTI-VEGF INJECTIONS FOLLOWING OTX-TKI UP TO MONTH 10





OTX-TKI DEMONSTRATED EXTENDED DURATION OF ACTION WITH 73% OF SUBJECTS RESCUE-FREE UP TO 10 MONTHS

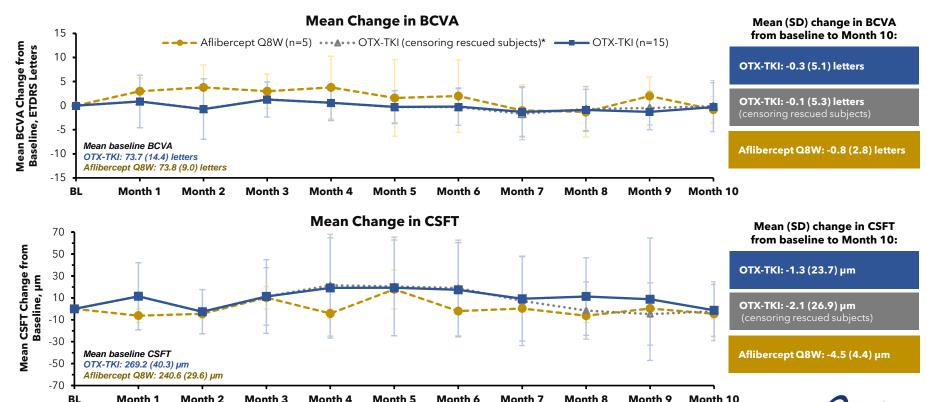
Percentage of OTX-TKI Subjects Rescue-Free Up to Each Visit (n=15)

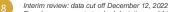






VISION AND CSFT WITH OTX-TKI WERE COMPARABLE TO AFLIBERCEPT Q8W UP TO MONTH 10







SAFETY SUMMARY UP TO MONTH 10: OTK-TKI WAS GENERALLY WELL TOLERATED

- No reports of drug-related ocular or systemic SAEs in either arm
- One event of acute endophthalmitis in OTX-TKI arm which occurred following mandated aflibercept injection at Month 1
 - Reported as moderate
 - Injection procedure related
 - Unrelated to the study drug
 - Resolved after intravitreal antibiotic injection, with vision returning to baseline
- All events were mild except
 - Acute endophthalmitis SAE (moderate and resolved) and worsening of cataract (moderate) in OTX-TKI arm
 - Elevated IOP in aflibercept arm (moderate and resolved)

| Subjects with Adverse Events in the Study Eye | OTX-TKI n=16 | Aflibercept n=5 | | |
|--|-----------------|--------------------|--|--|
| Elevated IOP | 0 | 1** | | |
| Retinal detachment | 0 | 0 | | |
| Retinal vasculitis | 0 | 0 | | |
| Implant migration into the anterior chamber | 0 | NA | | |
| Acute Endophthalmitis | 1* | 0 | | |
| Subjects with Ocular Adverse Events Reported by Severity | | | | |
| Ocular AEs | 16 | 3 | | |
| Mild | 14 | 2 | | |
| Moderate | 2* | 1** | | |
| Severe | 0 | 0 | | |

1*

Serious AEs



0

^{*}Moderate and serious ocular AE in OTX-TKI arm was Acute Endophthalmitis 6 days after mandated aflibercept injection at Month 1

^{**}Moderate AE in Aflibercept arm was Elevated Intraocular pressure

INTERIM RESULTS UP TO MONTH 10 DEMONSTRATED OTX-TKI HAD EXTENDED DURABILITY IN PATIENTS WITH WET AMD IN U.S. PHASE 1 TRIAL

Phase 1 randomized, controlled US clinical trial in previously treated wet AMD patients with a single OTX-TKI implant showed safety, tolerability, and biological activity comparable to aflibercept administered every 2 months in this 10-month interim analysis

Safety

- OTX-TKI was generally well tolerated
- No reports of drug-related ocular or systemic SAEs in either arm
- No reported adverse events such as elevated IOP, retinal detachment, retinal vasculitis, or implant migration into the anterior chamber in the OTX-TKI arm
- No subject drop-outs in either arm

Efficacy

- 80% of subjects were rescue-free up to 6 months & 73% of subjects were rescue-free up to 10 months following a single OTX-TKI implant injection
- At 10 months, vision (-0.3 letters) and CSFT (-1.3 μm) were stable with OTX-TKI and comparable to aflibercept Q8W (-0.8 letter; -4.5 μm)
- Clinically meaningful reduction in treatment burden observed up to 10 months post-treatment with OTX-TKI

Next Steps:

- Study is ongoing and follow-up will continue through Month 12 per protocol
- Phase 1 study evaluating OTX-TKI in subjects with Diabetic Retinopathy initiated in December 2022



