## CLEARSIDE BIOMEDICAL

CASIS OASIS Phase 1/2a Clinical Trial

6-Month Extension Study Results

February 2, 2023

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### Developing and Delivering Treatments that Restore and Preserve Vision for Serious Back of the Eye Diseases



formulations target the suprachoroidal space



## OASIS (3 Month) and Extension Study (6 Month) Cohorts 3 and 4: Promising CLS-AX Safety Data, Durability and Biologic Effect

#### **SAFETY DATA**

- Excellent safety profile at all doses and timepoints
- No Serious Adverse Events
- No dose limiting toxicities
- No Adverse Events (AEs) from inflammation
- No AEs related to intraocular pressure

#### DURABILITY

- In OASIS, to 3 months:
  - ≥72% reduction in treatment burden
- In Extension Study, to 6 months:
  - ≥77% reduction in treatment burden
  - Patients not requiring additional therapy:
    - ≥ 3 Months: 11/12 (92%)
    - ≥ 4 Months: 10/12 (83%)
    - ≥ 6 Months: 8/12 (67%)
    - > 6 Months: 6/12 (50%)

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#### **BIOLOGIC EFFECT**

- Stable mean Best Corrected Visual Acuity (BCVA)
- Stable mean Central Subfield Thickness (CST)
- On optical coherence tomography (OCT), anatomical signs of tyrosine kinase inhibitor (TKI) biologic effect were observed in anti-VEGF treatment-experienced sub-responders

#### **NEXT STEPS**

 Expect to initiate Phase 2b clinical trial in Q1 2023 with primary endpoint readout anticipated in mid-2024

# CLS-AX

## (axitinib injectable suspension) for Suprachoroidal Injection

## CLS-AX (axitinib injectable suspension) for Suprachoroidal Use

Leveraging a Highly Potent Pan-VEGF Inhibitor with Suprachoroidal Delivery





Axitinib is a tyrosine kinase inhibitor (TKI) | XIPERE® (triamcinolone acetonide injectable suspension), for suprachoroidal use has received U.S. FDA Approval. Please see Important Safety Information for XIPERE<sup>®</sup> in the Full Prescribing Information: https://www.bauschhealth.com/Portals/25/Pdf/PI/XIPERE-PI.pdf. | Source: Viral S. Kansara, Leroy W. Muya, Thomas A. Ciulla; Evaluation of Long-Lasting Potential of Suprachoroidal Axitinib Suspension Via Ocular and Systemic Disposition in Rabbits. *Trans. Vis. Sci. Tech.* 2021;10(7):19.

CLS-AX Injected Suprachoroidally Provides Targeted Delivery Relative to Intravitreal Injection at Same Dose



Rabbit Model Values: area under the curve ratios, SCS / IVT SCS : 1 mg/eye, 100  $\mu$ L. | IVT: 1 mg/eye, 25  $\mu$ L Single bilateral injection, 1-wk rabbit PK studies

#### CLS-AX has Potential for Meaningful Durability CLS-AX Levels to 6 Months

High Retina Levels: Sufficient to block VEGF pathway Low Plasma Levels: <1 ng/mL



**Rabbit toxicology study** with single bilateral suprachoroidal injection of axitinib, 1.05 mg/eye (n=4 eyes/ timepoint)

Sources: Viral S. Kansara, Leroy W. Muya, Thomas A. Ciulla; Evaluation of Long-Lasting Potential of Suprachoroidal Axitinib Suspension Via Ocular and Systemic Disposition in Rabbits. *Trans. Vis. Sci. Tech.* 2021;10(7):19.

L Abbreviations: SCS: Suprachoroidal Space | IVT: Intravitreal Injection | PK: Pharmacokinetic | RPE: Retinal pigment epithelium I RCS: RPE, Choroid, Sclera

## OASIS and Extension Study: CLS-AX Phase 1/2a Clinical Trial in Treatment-Experienced Wet AMD Patients with Active Disease at Screening

#### **TRIAL DESIGN AND OBJECTIVES**

- **Open-label study** with a primary endpoint to evaluate safety and tolerability of escalating single doses of CLS-AX administered through suprachoroidal injection following IVT aflibercept
- Wet AMD patients with ≥2 anti-VEGF treatments in the prior 4 months, reading center confirmation of persistent active disease
- Dose-escalation of CLS-AX (in mg): Cohort 1 at 0.03; Cohort 2 at 0.1; Cohort 3 at 0.5; Cohort 4 at 1.0
- Secondary endpoints: visual function, ocular anatomy, and need for additional treatment
- Monthly assessment for additional treatment with aflibercept: loss from best measurement of ≥10 letters in BCVA with exudation; increase in CST >75 microns; a vision-threatening hemorrhage
- Extension study: A total of 6 months' follow-up for patients in Cohorts 2, 3, & 4 who chose to continue for an additional 3 months





Note: affibercept is dosed via intravitreal injection (IVT); CLS-AX is dosed via suprachoroidal injection | clinicaltrials.gov NCT# 04626128

Active Disease definition: Active subfoveal choroidal neovascularization (CNV) secondary to AMD in the study eye confirmed by an independent reading center as leakage from a subfoveal CNV on fluorescein angiography and intra-retinal or sub-retinal fluid on OCT central subfield) Cohort 1 not offered extension trial

#### Patients were sub-responders with active disease at screening confirmed by reading center

#### Why target this patient population instead of treatment naïve or patients with controlled disease?

- Patients have a high need for effective therapy with lower treatment burden
- Minimizes the risk of false signals of biologic effect
- Facilitates assessment for biological effect in a difficult-to-treat nAMD patient population
- · Facilitates assessment of an appropriate dose, based on safety and biologic effect
- Represents a significant number of patients in clinical practice, with >30% sub-responders
- Supports future clinical trials

#### Desired outcomes in this heavily treated patient population:

- Demonstrate safety and tolerability of CLS-AX
- Maintain stability of visual acuity and central subfield thickness with lower treatment burden

## Enrolling difficult to treat anti-VEGF sub-responders allowed observation of possible signs of biologic effect while minimizing false signals



Core et at. Predominantly Persistent Intraretinal Fluid in the Comparison of Age-related Macular Degeneration Treatments Trials. Ophthalmol Retina. 2022 Sep;6(9):771-785. | Waldstein et al. Morphology and visual acuity in aflibercept and ranibizumab therapy for neovascular age-related macular degeneration in the VIEW trials. Ophthalmology 2016;123:1521-1529. Active Disease definition: Active subfoveal choroidal neovascularization (CNV) secondary to AMD in the study eye confirmed by an independent reading center as leakage from a subfoveal CNV on fluorescein angiography and intra-retinal or sub-retinal fluid on OCT central subfield)

#### Enrolled Patients All with Active Disease at Screening and Confirmed by Independent Reading Center

Demographics and Wet AMD History

| Wet AMD Disease Characteristics   | COHORT 1:<br>0.03 mg      | COHORT 2:<br>0.1 mg | COHORT 3:<br>0.5 mg | COHORT 4:<br>1.0 mg |
|---|---------------------------|---------------------|---------------------|---------------------|
| No. of participants   | 6                         | 5                   | 8                   | 8                   |
| Mean age (range), years   | 81.8 (66-93) 78.2 (65-90) |                     | 86.3 (75-97)        | 76.5 (66-83)        |
| Mean baseline best corrected visual acuity (range),<br>letters                                  | 59.0 (29-74)              | 65.6 (52-75)        | 58.5 (37-74)        | 65.8 (50-74)        |
| Mean baseline central subfield retinal thickness (range),<br>µm                                 | 231.2 (208-294)           | 209.4 (184-227)     | 202.0 (175-238)     | 218.8 (152-295)     |
| Mean duration of wAMD diagnosis (range), months   | 50.13 (12.4-110.3)        | 49.78 (24.7-81.3)   | 66.64 (6.8-102.1)   | 48.21 (4.5-132.8)   |
| Number of anti-VEGF injections reported prior to CLS-AX administration on Day 1, mean (range)   | 26.8 (7-41)               | 24.2 (12-39)        | 37.0 (6-90)         | 28.8 (5-89)         |
| Annualized number of anti-VEGF injections prior to CLS-AX administration on Day 1, mean (range) | 9.36 (6.3-12.7)           | 9.54 (5.4-12.2)     | 8.47 (4.9-11.8)     | 11.96 (8.9-13.6)    |



## **Extension Study: Demographics and Wet AMD History**

| Wet AMD Disease Characteristics   | COHORT 2:<br>0.1 mg          | COHORT 3:<br>0.5 mg                    | COHORT 4:<br>1.0 mg | Total             |  |
|---|------------------------------|--|---------------------|-------------------|--|
| No. of participants   | 2                            | 7                                      | 5                   | 14                |  |
| Mean age (range), years   | 74.0 (70-78)                 | 74.0 (70-78) 87.9 (81-97) 79.6 (74-83) |                     | 82.9 (70-97)      |  |
| Mean baseline best corrected visual acuity (range), letters                                   | 60.0 (52-68) 59.0 (37-74) 71 |  | 71.2 (69-74)        | 63.5 (37-74)      |  |
| Mean baseline central subfield retinal thickness (range), µm                                  | 213.5 (200-227)              | 201.9 (175-238)                        | 214.8 (197-234)     | 208.1 (175-238)   |  |
| Mean duration of wAMD diagnosis (range), months   | 44.30 (33.9-54.7)            | 67.29 (6.8-102.1)                      | 36.42 (6.1-103.4)   | 52.98 (6.1-103.4) |  |
| Number of anti-VEGF injections reported prior to CLS-AX administration on Day 1, mean (range) | 23.0 (12-34)                 | 38.9 (6-90)                            | 33.2 (6-89)         | 34.6 (6-90)       |  |
| Annualized number of anti-VEGF injections prior to Enrollment, mean (range)                   | 8.81 (5.4-12.2)              | 8.84 (4.9-11.9)                        | 12.01 (10.5-13.1)   | 9.97 (4.9-13.1)   |  |

## OASIS Results: Safety, Durability, & Treatment Burden Reduction

## **CLS-AX Demonstrated a Positive Safety Profile in All Four Cohorts**

#### **3-Month & 6-Month Extension Study Data**

#### SAFETY DATA

#### **Excellent Safety Profile at all doses and timepoints**

- No serious adverse events (SAEs)
- No treatment emergent adverse events (TEAEs) related to study treatment
- No dose limiting toxicities
- No adverse events related to inflammation, vasculitis or vascular occlusion
- No vitreous "floaters" or dispersion of CLS-AX into the vitreous
- No retinal detachment
- No endophthalmitis
- No adverse events related to intraocular pressure

### Extension Study (6 Month Data): Prior Anti-VEGF Therapies and <u>All Additional Therapies</u>



Source: Clearside data on file

### Extension Study (6 Month Data): Prior Anti-VEGF Therapies and <u>Additional Therapies Per Protocol Criteria</u>





### Extension Study (6 Month): CLS-AX Demonstrated Reduction of Treatment Burden Across Cohorts

#### **Observed Reduction in Treatment Burden** All Therapies

#### **Observed Reduction in Treatment Burden** Therapies Per Protocol Criteria

| Cohort | Number of<br>Participants | Avg Monthly<br>Injections Before<br>CLS-AX<br>Administration | Avg Monthly<br>Injections After<br>CLS-AX<br>Administration | %<br>Reduction | Cohort | Number of<br>Participants | Avg Monthly<br>Injections<br>Before CLS-AX<br>Administration | Avg Monthly<br>Injections After<br>CLS-AX<br>Administration | %<br>Reduction |
|--------|---------------------------|--|---|----------------|--------|---------------------------|--|---|----------------|
| 4      | 5                         | 0.87   | 0.20  | 77.0           | 4      | 4                         | 0.83   | 0.13  | 84.3           |
| 3      | 7                         | 0.81   | 0.12  | 85.2           | 3      | 7                         | 0.81   | 0.12  | 85.2           |
| 2      | 2                         | 0.83   | 0.17  | 79.5           | 2      | 1                         | 0.67   | 0.17  | 74.6           |

#### 77 – 85% Reduction in Treatment Burden in Cohorts 3 and 4



Note: Average Monthly Injections Before CLS-AX Administration = # treatments six months prior/ 6. Average Monthly Injections After CLS-AX Administration = # treatments / # months of follow-up. % Reduction = Average of individual reductions calculated as (after – before) / before × 100%. Source: Clearside data on file.

#### **Extension Study (6 Month): Stable Visual Acuity**



Source: Clearside data on file

### **Extension Study (6 Month): Stable Central Subfield Thickness**

Mean Central Subfield Thickness, Change from Screening All Data **Excluding Data After Additional Treatment** 200-200-- Cohort 4 Cohort 4 Cohort 3 🛥 Total Cohort 3 -----🗕 Total 150-150 Mean Change (± SEM), microns Mean Change (± SEM), microns 100-100-50-50-0. 0 -50**-**-50--100-100 -150--150--200 -200 Screening Baseline Month 1 Month 2 Month 3 Month 4 Month 5 Month 6 Screening Baseline Month 1 Month 2 Month 3 Month 4 Month 5 Month 6



## 6 Month Case Study: A Biological Effect Following CLS-AX in Anti-VEGF Sub-responder

Cohort 3, Subject 2: 89 prior anti-VEGF injections with persistent subfoveal fluid 1 month after aflibercept at screen Subretinal fluid gradually resolves through 4 months after CLS-AX with stable BCVA and improved CST



## CLS-AX in Suprachoroidal Space Demonstrates Promising Safety Data, Durability and Biologic Effect in Anti-VEGF Treatment Experienced Sub-responders

|                                     | OASIS Results  | Potential Competitive Advantages*   |
|-------------------------------------|--|---|
| Safety<br>Data<br>(All Cohorts)     | <ul> <li>Excellent Safety Profile at all doses and timepoints</li> <li>No SAEs, No TEAEs related to study treatment</li> <li>No dose limiting toxicities</li> <li>No AEs related to inflammation, vasculitis or vascular occlusion</li> <li>No vitreous "floaters" or dispersion of CLS-AX into the vitreous</li> <li>No retinal detachments or endophthalmitis</li> <li>No AEs related to intraocular pressure</li> </ul> | <ul> <li>As a well-characterized small molecule, less risk for<br/>inflammation than a novel biologic agent</li> <li>No need for an operating room setting</li> <li>No observed incidents of drug migration or vitreous "floaters"<br/>or haze in clinical trials, to date</li> <li>SCS injection procedure commercially accepted by retinal<br/>physicians following launch of XIPERE<sup>®</sup></li> </ul> |
| Durability<br>(Cohorts 3&4)         | In Extension Study (N=12):<br>• ≥77% reduction in treatment burden<br>• Patients not requiring additional therapy:<br>≥ 3 Months: 11/12 (92%)<br>≥ 4 Months: 10/12 (83%)<br>≥ 6 Months: 8/12 (67%)<br>> 6 Months: 6/12 (50%)   | <ul> <li>CLS-AX showed preliminary signs of durability favorably comparing to other current and investigational intravitreally injected biologic agents</li> <li>Based on extension data at higher doses, CLS-AX suprachoroidal suspension demonstrated it may have durability of effect that favorably compares to other extended release TKI formulations</li> </ul>  |
| Biologic<br>Effect<br>(Cohorts 3&4) | <ul> <li>CLS-AX showed signs of biologic effect:</li> <li>Stable mean BCVA</li> <li>Stable mean CST</li> <li>On OCT, anatomical signs of TKI biologic effect were observed<br/>in anti-VEGF treatment-experienced sub-responders</li> </ul>  | <ul> <li>The most potent TKI in nAMD trials, differentiated from focused VEGF-A blockade</li> <li>Targeted high levels to affected choroid-retina may further leverage efficacy, particularly in anti-VEGF sub-responders</li> </ul>  |



# **ODYSSEY** CLS-AX Phase 2b **Clinical Trial**

## **ODYSSEY Phase 2b Trial in Treatment-Naïve Wet AMD Participants**

#### Randomized, Double-Masked, CLS-AX Maintenance vs Faricimab Maintenance



Number of Participants: Total of 110 patients (55 in each arm)

#### • Key inclusion criteria:

- · Treatment naïve wet AMD participants
- Subfoveal CNV secondary to wet AMD
- Best Corrected Visual Acuity (BCVA) of 78–24 letters\*
- Primary endpoint: Mean change in BCVA
- Key secondary endpoints:
  - Mean change in Central Subfield Thickness (CST)
  - Treatment burden reduction as measured by total anti-VEGF injections over trial duration
- Monthly disease activity assessments: Beginning 2 months after last faricimab loading dose to determine if retreatment is needed
- Retreatment criteria: Decrease in BCVA, increase in CST, or new macular hemorrhage (per faricimab Phase 3 trial retreatment criteria<sup>#</sup>)

#### \* Inclusive (20/32-20/320 approximate Snellen equivalent)



# Increase >75 µm in CST compared with the lowest CST value recorded at either of the previous 2 scheduled visits, or Increase >50 µm in CST compared with the average CST value over the previous 2 scheduled visits, or Decrease S letters in BCVA compared with the average BCVA value over the previous 2 scheduled visits, owing to nAMD disease activity (as determined by the Investigator), or Decrease >10 letters in BCVA compared with the highest BCVA value recorded at either of the previous 2 scheduled visits, owing to nAMD disease activity (as determined by the Investigator), or Presence of new macular hemorrhage (as determined by the Investigator), owing to nAMD disease activity.

## **ODYSSEY Wet AMD Phase 2b Trial – Clinical Rationale**

#### Potential to Demonstrate Better Durability and Reduced Treatment Burden



**Mechanism of Action:** Pan-VEGF receptor inhibitor delivered by SCS Microinjector<sup>®</sup> **OASIS Phase 1/2a clinical trial data in treatment-experienced anti-VEGF sub-responders:** 

- 83% went ≥ 4 months without additional treatment
- 67% went ≥ 6 months without additional treatment
- 50% did not require additional treatment for more than 6 months



## **ODYSSEY Phase 2b Trial Design**



| • | Both Arms:     | 4 monthly faricimab loading doses; then monthly disease activity assessments (DAA) with retreatment if required per protocol.  |
|---|----------------|--|
| * | CLS-AX Arm:    | Participants are required to be dosed with CLS-AX at least every 6 months following the last CLS-AX dose. Participants may be dosed  |
|   |                | sooner than 6 months with CLS-AX if retreatment criteria is met during a DAA.  |
| # | Faricimab Arm: | Participants are required to be dosed with faricimab at least every 4 months (per label). Participants may be dosed sooner with faricimab if retreatment criteria is met during a DAA. If participants are retreated earlier than 4 months, they will continue to receive further doses of faricimab at that dosing interval for the remainder of the study (per label). |



## **ODYSSEY Wet AMD Phase 2b Trial Summary**

| Comparator                      | <ul> <li>VABYSMO<sup>®</sup> (faricimab-svoa) is the most recently approved product for wAMD</li> <li>Selected based on KOL input anticipating VABYSMO could become the future branded standard of care</li> </ul>   |
|---------------------------------|--|
| Treatment-Naïve<br>Participants | <ul> <li>More likely to respond to treatment and show similar visual stability to standard of care than treatment resistant participants</li> <li>Same population as faricimab Phase 3 trials</li> </ul>   |
| Maintenance<br>Dosing Regimen   | <ul> <li>Designed to demonstrate reduced treatment burden and better durability of CLS-AX versus on-label faricimab dosing; Same disease activity assessment design as faricimab Phase 3 trials</li> <li>CLS-AX has potential for 2-3x/year maintenance dosing compared to on-label maintenance dosing for approved drugs: LUCENTIS<sup>®</sup>: 12x/year, EYLEA<sup>®</sup>: 6x/year, VABYSMO<sup>®</sup>: up to 6x/year</li> </ul> |
| Trial Size and<br>Timeline      | <ul> <li>6-month primary endpoint and 12-month secondary endpoints expected to produce comparable visual acuity results with lower treatment burden</li> <li>Balanced to meet objectives, recruit in timely manner and to produce meaningful results in a reasonable time, with anticipated data readout in mid-2024</li> </ul>  |

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# OASIS Case Studies

Cohort 3, Subject 3: 65 prior anti-VEGF injections with PED, mild subfoveal and intraretinal fluid at screen Stable anatomy, BCVA and CST for 6 months after CLS-AX with no additional therapy





Cohort 3, Subject 4: 14 prior anti-VEGF injections with mild subfoveal fluid at screen Stable anatomy, BCVA and CST for 6 months after CLS-AX with no additional therapy





<u>Baseline</u>: CLS-AX BCVA 45, CST 175





Cohort 3, Subject 6: 49 prior anti-VEGF injections with persistent subretinal fluid in superior central subfield Stable anatomy, BCVA and CST for 6 months after CLS-AX with no additional therapy



BCVA 71, CST 207

![](_page_30_Picture_4.jpeg)

![](_page_30_Picture_5.jpeg)

Cohort 4, Subject 5: 29 prior anti-VEGF injections with persistent PED and intraretinal fluid in superior central subfield Stable anatomy, BCVA and CST for 6 months after CLS-AX with no additional therapy

![](_page_31_Figure_2.jpeg)

<u>Month 3</u> BCVA 69, CST 249

![](_page_31_Picture_4.jpeg)

Baseline: CLS-AX BCVA 70, CST 234

![](_page_31_Figure_6.jpeg)

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Cohort 4, Subject 6: 29 prior anti-VEGF injections with PED and mild subfoveal at screen Stable anatomy, BCVA and CST for 6 months after CLS-AX with no additional therapy

![](_page_32_Figure_2.jpeg)

# OASIS Individual Patient Data

#### COHORT 3: 0.5 mg

![](_page_34_Figure_2.jpeg)

COHORT 4: 1.0 mg

![](_page_34_Figure_4.jpeg)

Prior nAMD Treatment
 IVT Aflibercept (Screening, Visit 1)

(N=) Total number of nAMD treatments reported prior to CLS-AX (Day 1), within 36 months (m=) Annualized number of injections in the past 36 months defined as (total number of injections in 36 months prior to CLS-AX (Day 1)) / minimum(3, (duration between first injection and Day 1)/365.25)).

(N=) Total number of nAMD treatments reported prior to CLS-AX (Day 1), within 36 months (m=) Annualized number of injections in the past 36 months defined as (total number of injections in 36 months prior to CLS-AX (Day 1)) / (minimum(3, (Duration between first injection and Day 1)/365.25)).

IVT Aflibercept (Screening, Visit 1)

Prior nAMD Treatment

| COHORT                  | SUBJECT | ADDITIONAL THERAPY VISIT   | REASON FOR ADDITIONAL THERAPY        |  |
|-------------------------|---------|----------------------------|--------------------------------------|--|
| COHORT 2: 0.10 mg (N=2) | 1       | 5 months post CLS-AX       | Macular hemorrhage                   |  |
| COHORT 3: 0.5 mg (N=7)  | 2       | 6 months post CLS-AX *     | BCVA with exudation                  |  |
|                         | 5       | 6 months post CLS-AX       | CST                                  |  |
|                         | 8       | 4 months post CLS-AX       | CST                                  |  |
|                         | 3       | 5 months post CLS-AX       | CST (not verified by reading center) |  |
| COHORT 4: 1.0 mg (N=5)  | 4       | 6 months post CLS-AX       | CST                                  |  |
|                         | 7       | 4 and 5 months post CLS-AX | BCVA with exudation                  |  |
|                         |         |                            |                                      |  |

\* Two interventions within window

Red = not treated per protocol defined criteria

Assessment for additional treatment with aflibercept:

Decrease from best measurement of ≥10 letters in BCVA with exudation; Increase in CST >75 microns; A vision-threatening hemorrhage

CLEARSIDE BIOMEDICAL Source: Clearside data on file.

#### Cohort 3 Extension Study: Stable Best Corrected Visual Acuity and Central Subfield Thickness Beyond 3 Months

![](_page_36_Figure_1.jpeg)

![](_page_36_Picture_2.jpeg)

#### Cohort 4 Extension Study: Stable Best Corrected Visual Acuity and Central Subfield Thickness Beyond 3 Months

![](_page_37_Figure_1.jpeg)

• Additional Therapy (reading center verified) • Additional Therapy (not reading center verified) • Additional Therapy (reading center verified) • Additional Therapy (not reading center verified)

Dotted line = patient received additional therapy not per protocol (not reading center verified or physician discretion)

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 Source: Clearside data on file.

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 Note: Demonstrates data from scheduled and unscheduled visits.

# OASIS Appendix

### **ODYSSEY Phase 2b Trial: Control Arm Dosing Per Label**

![](_page_39_Figure_1.jpeg)

![](_page_39_Picture_2.jpeg)

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