



## **Clearside Biomedical Announces Completion of Patient Dosing in First Cohort of Phase 1/2a Clinical Trial of CLS-AX (axitinib injectable suspension) for the Treatment of Wet AMD**

March 2, 2021

*- Initial Safety Data from First Cohort Expected Mid-2021 -*

ALPHARETTA, Ga., March 02, 2021 (GLOBE NEWSWIRE) -- Clearside Biomedical, Inc. (NASDAQ:CLSD), a biopharmaceutical company dedicated to developing and delivering treatments that restore and preserve vision for people with serious back of the eye diseases, announced today completion of dosing in the first cohort of OASIS, its ongoing Phase 1/2a clinical trial of CLS-AX (axitinib injectable suspension) in patients with neovascular age-related macular degeneration (wet AMD).

OASIS is a U.S.-based, multi-center, open-label, dose-escalation trial in wet AMD patients to assess the safety and tolerability of a single dose of CLS-AX administered by suprachoroidal injection. The first cohort of patients have received aflibercept at their first visit and a single dose of CLS-AX at their second visit one month later. The primary endpoint for the trial will assess the safety and tolerability of CLS-AX for three months following the administration of CLS-AX.

"We are pleased to have made rapid progress enrolling patients in our OASIS trial evaluating the use of axitinib, a highly-potent small molecule tyrosine kinase inhibitor (TKI), administered by suprachoroidal injection," said Thomas A. Ciulla, M.D., MBA, Chief Medical Officer and Chief Development Officer. "This progress was made possible through the combined efforts and commitment by patients, investigators, advisors and our internal team. We believe that by combining the high potency and pan-VEGF attributes of axitinib with our proprietary CLS-AX formulation and delivery via our SCS Microinjector<sup>®</sup>, we may extend the duration of therapeutic action and reduce or relieve the profound treatment burden for wet AMD patients. We expect to report initial safety data from this first cohort of patients in mid-2021 and continue on to a higher dose in the next cohort in the second half of the year."

### **About CLS-AX (axitinib injectable suspension)**

CLS-AX (axitinib injectable suspension) is a proprietary suspension of axitinib for suprachoroidal injection. Axitinib is a tyrosine kinase inhibitor (TKI) currently approved to treat renal cell cancer that achieves pan-VEGF blockade, directly inhibiting VEGF receptors-1, -2, and -3 with high potency and specificity. Clearside believes this broad VEGF blockade may have efficacy advantages over existing retinal therapies by acting at a different level of the angiogenesis cascade, and may benefit patients who sub-optimally respond to current, more narrowly focused anti-VEGF therapies. Suprachoroidal injection of this proprietary suspension of axitinib has demonstrated meaningful potential in preclinical studies in multiple species. Preclinical results from Clearside and independent investigators have shown pharmacodynamic effects with reduced growth of experimental neovascularization and decreased fluorescein leakage. With suprachoroidal administration of axitinib, there is the potential to achieve prolonged duration and targeted delivery to affected tissue layers. Clearside is developing CLS-AX as a long-acting therapy for the treatment of wet AMD. CLS-AX is currently being investigated in an ongoing U.S.-based, multi-center, open-label, dose-escalation, Phase 1/2a, safety and tolerability study, entitled OASIS, in wet AMD patients, and additional information can be found on <https://clinicaltrials.gov> ([NCT04626128](https://clinicaltrials.gov/ct2/show/study/NCT04626128)).

### **About the OASIS Phase 1/2a Clinical Trial**

OASIS is an open-label, dose-escalation Phase 1/2a trial in wet AMD patients to assess the safety and tolerability of a single dose of CLS-AX administered by suprachoroidal injection via Clearside's SCS Microinjector<sup>®</sup>. Eligible patients are those who demonstrate stable visual acuity following two or more previous injections with an intravitreal anti-VEGF agent. Enrolled patients initially receive aflibercept at the first visit followed by a single dose of CLS-AX at the second visit one month later. The primary endpoint for the trial will assess the safety and tolerability of CLS-AX for the three months following the administration of CLS-AX, and secondary endpoints will evaluate the pharmacokinetics, visual function, ocular anatomy, and the need for additional treatment with intravitreal aflibercept during the three-month period.

The study design is planned with 3 cohorts of approximately 5 patients each (n=15). Cohort 1 participants received the lowest dose, 0.03 mg of axitinib delivered via suprachoroidal injection. Dose escalation will then proceed following review of the safety data by the Safety Monitoring Committee and their recommendation to advance to the next higher dose cohort. Additional information on the Phase 1/2a trial can be found on <https://clinicaltrials.gov> ([NCT04626128](https://clinicaltrials.gov/ct2/show/study/NCT04626128)).

### **About Clearside's SCS Microinjector<sup>®</sup>**

Clearside's patented, proprietary suprachoroidal space (SCS<sup>®</sup>) injection treatment approach offers unprecedented access to the back of the eye where sight-threatening disease often occurs. Clearside's proprietary SCS Microinjector<sup>®</sup> can be used to inject a wide variety of drug candidates that are specifically formulated to be delivered via suprachoroidal injection. The SCS Microinjector provides targeted delivery to potentially improve efficacy and compartmentalization of medication to reduce or eliminate toxic effects on non-diseased cells. The SCS Microinjector is composed of a syringe and two 30-gauge hollow microneedles of varying lengths, each less than 1.2 millimeters, within a custom-designed hub that optimizes insertion and suprachoroidal administration of drugs.

### **About Clearside Biomedical**

Clearside Biomedical, Inc. is a biopharmaceutical company dedicated to developing and delivering treatments that restore and preserve vision for people with serious back of the eye diseases. Clearside's proprietary SCS Microinjector<sup>®</sup> targets the suprachoroidal space (SCS<sup>®</sup>) and offers unique access to the macula, retina and choroid where sight-threatening disease often occurs. The Company's SCS injection platform is an inherently flexible,

in-office, non-surgical procedure, intended to provide targeted delivery to the site of disease and to work with both established and new formulations of medications, as well as future therapeutic innovations. For more information, please visit [www.clearsidebio.com](http://www.clearsidebio.com).

#### **Cautionary Note Regarding Forward-Looking Statements**

Any statements contained in this press release that do not describe historical facts may constitute forward-looking statements as that term is defined in the Private Securities Litigation Reform Act of 1995. These statements may be identified by words such as “believe”, “expect”, “may”, “plan”, “potential”, “will”, and similar expressions, and are based on Clearside’s current beliefs and expectations. These forward-looking statements include statements regarding the clinical development, including the timing of safety data from the OASIS clinical trial, and the potential benefits, of CLS-AX and therapies using Clearside’s SCS Microinjector<sup>®</sup>. These statements involve risks and uncertainties that could cause actual results to differ materially from those reflected in such statements. Risks and uncertainties that may cause actual results to differ materially include uncertainties inherent in the conduct of clinical trials, Clearside’s reliance on third parties over which it may not always have full control, uncertainties regarding the COVID-19 pandemic and other risks and uncertainties that are described in Clearside’s Annual Report on Form 10-K for the year ended December 31, 2019, filed with the U.S. Securities and Exchange Commission (“SEC”) on March 13, 2020, Clearside’s Quarterly Report on Form 10-Q for the quarter ended September 30, 2020, filed with the SEC on November 10, 2020 and Clearside’s other Periodic Reports filed with the SEC. Any forward-looking statements speak only as of the date of this press release and are based on information available to Clearside as of the date of this release, and Clearside assumes no obligation to, and does not intend to, update any forward-looking statements, whether as a result of new information, future events or otherwise.

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