Acumen Opens Clinical Trial for Promising New Investigational Alzheimer's Disease Treatment Near The Villages

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Individuals with memory problems encouraged to learn more about study

SUMTER COUNTY, Fla. - March 23, 2022 – Acumen Pharmaceuticals Inc. (NASDAQ: ABOS), a clinical stage biopharmaceutical company focused on the development of novel targeted therapeutics for Alzheimer's disease (AD), is sponsoring a clinical trial – with a study site near The Villages in Sumter County, Fla. – for a promising new investigational treatment for Alzheimer's disease.

The Phase I study will determine the safety and tolerability of a single intravenous (IV) dose and multiple IV doses of ACU193. Acumen is asking individuals who have memory problems to consider participating in the trial to assist in evaluating this medication for the treatment of Alzheimer's disease. There is no cost to participate.

ACU193 targets amyloid-beta oligomers and is a different approach to treating Alzheimer's disease than currently approved medications. ACU193 is designed to locate and bind to amyloid-beta oligomers – proteins that build up in the brain in people with Alzheimer's disease. These proteins are thought to be involved in Alzheimer's disease symptoms and progression.

The trial site, located at Charter Research in Lady Lake is led by principal investigator Dr. Jeffrey Norton.

"We're excited to open this trial near The Villages to study ACU193 for the treatment of Alzheimer's disease," said Dr. Jeffrey Norton, principal investigator, Charter Research. "If you or a loved one is experiencing memory problems, contact us to find out more about the study. Alzheimer's disease affects 580,000 people in Florida. New, safe and effective treatments are needed more than ever. Participating in clinical trials is one way members of our community can help make a difference."

Key Eligibility Criteria:

- Age 55 to 90 years of age.
- Have memory problems that might be a sign of mild cognitive impairment (usually mild memory loss) or mild dementia. The underlying cause of these memory problems may or may not be due to Alzheimer's disease. Tests given within the study will help to determine this.
- Have a caregiver or study partner; someone who knows the participant very well, who is willing to assist with participation in the study and can attend the study visits with the participant.
- The staff at the study center will explain the complete list of requirements.

Patients who believe they qualify for the study are asked to call 352-735-4000 or email Info@CharterResearch.com to learn more.

This study is the first time ACU193 will be given to people. As all drugs and medical procedures carry a risk of side effects, it is possible that participants may experience some discomfort or other reactions from use of ACU193. The study staff will explain these potential risks before potential participants decide whether to participate in the study. The safety of participants will be closely monitored throughout the study.

Study participants will receive a full diagnostic work-up, including an amyloid PET scan and MRI that can provide a more accurate diagnosis and help guide future treatment options. After finishing this study, participants may consider participating in future studies of ACU193 in which all participants could receive ACU193 at some point in the study.

About ACU193
ACU193 is a monoclonal antibody (mAb) discovered and developed based on its selectivity for soluble AβOs, which Acumen believes are the most toxic and pathogenic form of Aβ relative to Aβ monomers and amyloid plaques. Soluble AβOs have been observed to be potent neurotoxins that bind to neurons, inhibit synaptic function and induce neurodegeneration. By selectively targeting toxic soluble AβOs, ACU193 aims to directly address what a growing body of evidence indicates is a primary underlying cause of the neurodegenerative process in AD.

About Acumen Pharmaceuticals, Inc.

Acumen Pharmaceuticals, headquartered in Charlottesville, Va., with clinical operations based in Carmel, Ind., is a clinical stage biopharmaceutical company developing a novel disease-modifying approach to treat Alzheimer's disease. Acumen's scientific founders pioneered research on toxic soluble AβOs, which a growing body of evidence indicates are primary triggers of Alzheimer's disease pathology. Acumen is currently focused on advancing its investigational product candidate, ACU193, a humanized monoclonal antibody that selectively targets toxic soluble AβOs in a Phase I clinical trial involving early Alzheimer's disease patients. For more information, visit www.acumenpharm.com.

Forward-Looking Statements
This press release contains forward-looking statements within the meaning of The Private Securities Litigation Reform Act of 1995. Any statement describing Acumen's goals, expectations, financial or other projections, intentions or beliefs is a forward-looking statement and should be considered an at-risk statement. Words such as "believes," "expects," "anticipates," "could," "would," "seeks," "aims," "plans," "potential", "will" and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. Forward-looking statements include statements concerning Acumen's business and the therapeutic potential of Acumen's product candidate, ACU193, including its potential for improved safety and efficacy as compared to other monoclonal antibodies in development, as well as the expectations

concerning the INTERCEPT-AD trial. These statements are based upon the current beliefs and expectations of Acumen management, and are subject to certain factors, risks and uncertainties, particularly those inherent in the process of discovering, developing and commercializing safe and effective human therapeutics. Such risks may be amplified by the impacts of the COVID-19 pandemic. These and other risks concerning Acumen's programs are described in additional detail in Acumen's filings with the Securities and Exchange Commission ("SEC"), including in Acumen's Quarterly Report on Form 10-Q for the quarter ended June 30, 2021, filed with the SEC on August 16, 2021, which is available on the SEC's website at www.sec.gov. Copies of these and other documents are available from Acumen. Additional information will be made available in other filings that Acumen makes from time to time with the SEC. These forward-looking statements speak only as of the date hereof, and Acumen expressly disclaims any obligation to update or revise any forward-looking statement, except as otherwise required by law, whether, as a result of new information, future events or otherwise.

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