

BioCryst Presents New Real-world Evidence Showing Reductions in Attack Rates in HAE Patients with Normal C1-Inhibitor after Beginning ORLADEYO® (berotralstat) Treatment

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Additional results from largest body of evidence on attenuated androgen use in HAE reinforce need for access to safer and more tolerable HAE prophylaxis options

RESEARCH TRIANGLE PARK, N.C., June 02, 2024 (GLOBE NEWSWIRE) -- <u>BioCryst Pharmaceuticals. Inc.</u> (Nasdaq: BCRX) today announced new real-world evidence showing that patients with hereditary angioedema (HAE) who have normal C1-inhibitor (HAE-nC1-INH) level and function had a reduction in monthly attack rates after starting oral, once-daily ORLADEYO[®] (berotralstat). The data were presented at the European Academy of Allergy and Clinical Immunology (EAACI) Congress in Valencia, Spain.

"The diagnosis of HAE patients with normal C1-inhibitor is complicated and often delayed by the lack of an easily measurable biochemical marker. This multicenter case series provides clinically relevant evidence that berotralstat can also reduce the frequency and duration of episodes in the C1 normal population," said Dr. Isabelle Boccon-Gibod, department of internal medicine and immunology, Grenoble Alps University Hospital, who presented the findings at EAACI.

Six patients with HAE-nC1-INH were included in the analysis. All had received previous long-term prophylaxis (LTP), and one remained on concurrent LTP. After six months of treatment with berotralstat, five patients showed a 75 to 100 percent reduction of their HAE attack rate, and one patient, who was on a concurrent dose of tranexamic acid, showed a 29 percent reduction in their HAE attack rate.

No adverse events related to berotralstat were noted in five of the six patients. One patient experienced gastrointestinal symptoms upon initiation, which became milder after the first two weeks and did not lead to treatment discontinuation.

Adverse Health Outcomes and Patient and Physician Perspectives of Attenuated Androgen Use in Hereditary Angioedema

Additional new results presented at EAACI demonstrate the adverse health outcomes associated with attenuated androgen use as a prophylactic treatment for HAE. The study also documents that these adverse outcomes cause increased reluctance among physicians to use attenuated androgens in clinical practice. The study highlights the importance of access to recent targeted HAE prophylactic therapies, in line with current World Allergy Organization/EAACI guidelines which recommend that targeted therapies are utilized for first-line long term prophylaxis, and the use of androgens is reserved only as second-line long-term prophylaxis.

"This study presents the latest and largest body of evidence documenting that HAE prophylactic treatment with attenuated androgens is associated with short-term adverse outcomes and serious long-term risks that include increased cardiovascular events, liver damage, and cancer. The prevalent and wide-ranging adverse outcomes associated with attenuated androgen use in HAE reinforce that safer and more tolerable treatment options should be preferred and made accessible for HAE prophylaxis," said Marcus Maurer, professor of dermatology and allergology at Charité -Universitätsmedizin Berlin and Fraunhofer Institute for Translational Medicine and Pharmacology.

The study assessed 108 prospective and retrospective studies published between January 1980 and July 2023 that reported quantitative outcomes associated with attenuated androgen use in patients with HAE. These included four clinical trials, 43 observational studies, 37 case reports/series, and 24 reviews. Studies of patient and physicians' attitudes and perception of risk regarding attenuated androgens were also included.

Adverse outcomes associated with attenuated androgen use included increased body weight, menstrual irregularities, virilization, myalgia, acne and liver damage, including liver cancer. Patients and physicians cited concerns with the use of attenuated androgens related to tolerability, fear of adverse events, and long-term adherence. A three-part survey conducted in the United States noted that the unwillingness to prescribe attenuated androgens among physicians increased from 18 percent in 2010 to 60 percent in 2019, following approval of the first newer LTP treatments.

About ORLADEYO[®] (berotralstat)

ORLADEYO[®] (berotralstat) is the first and only oral therapy designed specifically to prevent attacks of hereditary angioedema (HAE) in adult and pediatric patients 12 years and older. One capsule of ORLADEYO per day works to prevent HAE attacks by decreasing the activity of plasma kallikrein.

U.S. Indication and Important Safety Information

INDICATION

ORLADEYO[®] (berotralstat) is a plasma kallikrein inhibitor indicated for prophylaxis to prevent attacks of hereditary angioedema (HAE) in adults and pediatric patients 12 years and older.

Limitations of use

The safety and effectiveness of ORLADEYO for the treatment of acute HAE attacks have not been established. ORLADEYO should not be used for the treatment of acute HAE attacks. Additional doses or dosages of ORLADEYO higher than 150 mg once daily are not recommended due to the potential for QT prolongation.

IMPORTANT SAFETY INFORMATION

An increase in QT prolongation was observed at dosages higher than the recommended 150 mg once-daily dosage and was concentration dependent.

The most common adverse reactions (≥10% and higher than placebo) in patients receiving ORLADEYO were abdominal pain, vomiting, diarrhea, back pain, and gastroesophageal reflux disease.

A reduced dosage of 110 mg taken orally once daily with food is recommended in patients with moderate or severe hepatic impairment (Child-Pugh B or C).

Berotralstat is a substrate of P-glycoprotein (P-gp) and breast cancer resistance protein. P-gp inducers (eg, rifampin, St. John's wort) may decrease berotralstat plasma concentration, leading to reduced efficacy of ORLADEYO. The use of P-gp inducers is not recommended with ORLADEYO.

ORLADEYO at a dose of 150 mg is a moderate inhibitor of CYP2D6 and CYP3A4. For concomitant medications with a narrow therapeutic index that are predominantly metabolized by CYP2D6 or CYP3A4, appropriate monitoring and dose titration is recommended. ORLADEYO at a dose of 300 mg is a P-gp inhibitor. Appropriate monitoring and dose titration is recommended for P-gp substrates (eg, digoxin) when coadministering with ORLADEYO.

The safety and effectiveness of ORLADEYO in pediatric patients <12 years of age have not been established. There are insufficient data available to inform drug-related risks with ORLADEYO use in pregnancy. There are no data on the presence of berotralstat in human milk, its effects on the breastfed infant, or its effects on milk production.

To report SUSPECTED ADVERSE REACTIONS, contact BioCryst Pharmaceuticals, Inc. at 1-833-633-2279 or FDA at 1-800-FDA-1088 or <u>www.fda.gov/medwatch</u>.

Please see full Prescribing Information.

About BioCryst Pharmaceuticals

BioCryst Pharmaceuticals is a global biotechnology company with a deep commitment to improving the lives of people living with complementmediated and other rare diseases. BioCryst leverages its expertise in structure-guided drug design to develop first-in-class or best-in-class oral smallmolecule and protein therapeutics to target difficult-to-treat diseases. BioCryst has commercialized ORLADEYO[®] (berotralstat), the first oral, once-daily plasma kallikrein inhibitor, and is advancing a pipeline of small-molecule and protein therapies. For more information, please visit <u>www.biocryst.com</u> or follow us on <u>LinkedIn</u>.

Forward-Looking Statements

This press release contains forward-looking statements, including statements regarding future results, performance or achievements. These statements involve known and unknown risks, uncertainties and other factors which may cause actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. These statements reflect our current views with respect to future events and are based on assumptions and are subject to risks and uncertainties. Given these uncertainties, you should not place undue reliance on these forward-looking statements. Some of the factors that could affect the forward-looking statements contained herein include: BioCryst's ability to successfully implement its commercialization plans for ORLADEYO, which could take longer or be more expensive than planned; the commercial viability of ORLADEYO, including its ability to achieve market acceptance; the FDA or other applicable regulatory agency may require additional studies beyond the studies planned for products and product candidates, may not provide regulatory clearances which may result in delay of planned clinical trials, may impose certain restrictions, warnings, or other requirements on products and product candidates, may impose a clinical hold with respect to product candidates, or may withhold, delay, or withdraw market approval for products and product candidates; BioCryst's ability to successfully manage its growth and compete effectively; risks related to the international expansion of BioCryst's business; and actual financial results may not be consistent with expectations, including that revenue, operating expenses and cash usage may not be within management's expected ranges. Please refer to the documents BioCryst files periodically with the Securities and Exchange Commission, specifically BioCryst's most recent Annual Report on Form 10-K, Quarterly Reports on Form 10-Q, and Current Reports on Form 8-K, which identify important factors that could cause the actual results to differ materially from those contained in BioCryst's forward-looking statements.

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Contacts: John Bluth +1 919 859 7910 jbluth@biocryst.com

Niamh Lyons +353 87 639 7083 nlyons@biocryst.com