



Imago BioSciences Presents Positive Data from Ongoing Phase 2 Study of Bomedemstat in Essential Thrombocythemia at EHA 2022

June 10, 2022

- The study completed enrollment with 73 patients in April 2022 -

- As of the data cutoff of 29 April 2022, bomedemstat demonstrated durability of response with 81% of patients achieving normalized platelet counts for at least 12 weeks -

- 58% of patients treated with bomedemstat experienced symptomatic improvement, defined as a decrease in Total Symptom Score, at 24 weeks -

- Both JAK2 and CALR mutation burdens were decreased during treatment with bomedemstat -

- The EHA data cut represents the last presentation before an End of Phase 2 meeting with FDA expected in 2H22 -

- Company to host virtual investor event on Saturday, 11 June 2022 at 10:30 AM ET-

SOUTH SAN FRANCISCO, Calif., June 10, 2022 (GLOBE NEWSWIRE) -- [Imago BioSciences, Inc.](https://www.imagobiosciences.com) ("Imago" or the "company") (Nasdaq: IMGO), a clinical stage biopharmaceutical company discovering and developing new medicines for the treatment of myeloproliferative neoplasms (MPNs) and other bone marrow diseases, today presented updated positive data from its ongoing global Phase 2 clinical study evaluating bomedemstat in patients with essential thrombocythemia (ET).

The data were presented in a poster session during the 30th European Hematology Association Annual Meeting and Congress (EHA) taking place 9-12 June 2022. A Phase 2 data set with a cut-off of 1 November 2021 was previously presented at the 64th American Society of Hematology (ASH) Annual Meeting and Exposition in December 2021.

Updated Highlights (available data as of 29 April 2022):

- Enrollment completed with 73 patients in April 2022
- Of the 32 patients treated with bomedemstat for more than 24 weeks:
 - 97% (31/32) achieved platelet count reduction to $\leq 400 \times 10^9/L$.
 - 94% (30/32) achieved platelet count reduction to $\leq 400 \times 10^9/L$ with no thromboembolic events, the primary efficacy endpoint of this study.
 - 81% (26/32) of patients achieved a durable response, defined as platelet count of $\leq 400 \times 10^9/L$ for at least 12 weeks.
- Of the 31 patients with Total Symptom Score (TSS) data available at 24 weeks:
 - 58% (18/31) showed a decrease in TSS.
 - 32% (10/31) showed improvements ≥ 10 points, one component of the ELN criteria for response.
- Importantly, platelet response rates were similar across all genotypes identified in the study (*CALR*, *JAK2*^{V617F}, *MPL* and *triple negative*). Additionally, 67% (16/24) patients demonstrated a net decrease in mutation allele frequencies including both *CALR* and *JAK2*.

"I am genuinely thrilled with the results of our ongoing Phase 2 clinical study of bomedemstat in essential thrombocythemia (ET) that continues to support the tremendous potential of our drug candidate. Based on the most recent data cutoff for this Phase 2 trial, as monotherapy in patients with ET who have failed a standard-of-care treatment, bomedemstat demonstrated both favorable platelet and white count reduction and sustained durability of treatment effects," said Hugh Young Rienhoff, Jr. MD, CEO of Imago. "Having now completed, indeed exceeded, our target enrollment in the study, we remain on track for an End-of-Phase 2 meeting with the FDA later this year. Based on our clinical results to date and our productive interactions with regulatory authorities, we are excited about the upcoming Phase 3 registrational trial."

Safety & Tolerability

- Bomedemstat was generally well-tolerated with no safety signals identified per the Safety Advisory Board.
- The most common adverse events (AEs) (>20%) regardless of causality were dysgeusia (altered taste), fatigue, constipation, and arthralgia.
- There were 19 reported serious adverse events (SAEs), 6 of which were deemed drug-related by the Investigator in 5% (3/67) of patients.
- 14 patients have discontinued treatment, with 10 due to AEs (1 death from aspiration pneumonia unrelated to bomedemstat), 2 due to withdrawal of consent, and 2 due to investigator decision.

Details on the Imago EHA Presentation

Oral Presentation Title: A Phase 2 Study of the LSD1 Inhibitor IMG-7289 (Bomedemstat) for the Treatment of Essential Thrombocythemia (ET)
Session: 16. Myeloproliferative neoplasms – Clinical
Presenter: Francesca Palandri, M.D., Ph.D., Institute of Hematology “L. & A. Seràgnoli” Sant’Orsola-Malpighi University Hospital, Bologna, Italy
Date & Time: Friday, June 10, 2022, at 10:30 AM ET

For further details, please see the EHA 2022 abstract and presentation on the Imago website [here](#).

Virtual Investor Event Details

Individuals interested in listening to the event at 10:30 a.m. ET on Saturday, 11 June 2022 may do so by dialing (844) 348-6880 for domestic callers, or +1 (914) 800-3944 for international callers, and reference conference ID: 3493998; or from the webcast link in the investor relations section of the company’s website at: www.imagobio.com. The webcast will be available in the investor relations section on the company’s website for 90 days following the completion of the call.

About Imago’s Phase 2 Essential Thrombocythemia Program

Essential thrombocythemia (ET) is a rare blood cancer resulting in the overproduction of platelets which increases the risk of blood clots and bleeding. It is one of the myeloproliferative neoplasms (MPN) family of rare bone marrow diseases and affects approximately 80,000 – 100,000 patients in the U.S. Imago BioSciences is developing bomedemstat (IMG-7289), an orally administered LSD1 inhibitor, as a potential therapy for patients with ET.

This Phase 2 multi-center, open-label study was designed to assess the safety, efficacy, and pharmacodynamics of bomedemstat, an oral inhibitor of lysine-specific demethylase 1 (LSD1) (www.clinicaltrials.gov Identifier NCT04254978). Eligible patients aged 18 or older with ET who had failed at least one standard therapy and required treatment in order to lower their platelet count were considered for participation in this study. Exploratory assessments include the serial measurement of mutant allele frequencies and changing plasma cytokine profiles. The trial is being conducted in the United States, the United Kingdom, Europe, Hong Kong, New Zealand, and Australia. Imago announced first patient dosed on October 1, 2020. As of April 29, 2022, the trial completed enrollment with 73 participants.

About Imago BioSciences

Imago BioSciences is a clinical-stage biopharmaceutical company discovering and developing novel small molecule product candidates that target lysine-specific demethylase 1 (LSD1), an enzyme that plays a central role in the production of blood cells in the bone marrow. Imago is focused on improving the quality and length of life for patients with cancer and bone marrow diseases. Bomedemstat, an orally available, small molecule inhibitor of LSD1, is the lead product candidate discovered by Imago for the treatment of certain myeloproliferative neoplasms (MPNs), a family of related, chronic cancers of the bone marrow. Imago is evaluating Bomedemstat as a potentially disease-modifying therapy in two Phase 2 clinical trials for the treatment of essential thrombocythemia (NCT04254978) and myelofibrosis (NCT03136185). Bomedemstat has U.S. FDA Orphan Drug and Fast Track Designation for the treatment of ET and MF, European Medicines Agency (EMA) Orphan Designation for the treatment of ET and MF, and PRiority MEdicines (PRIME) Designation by the EMA for the treatment of MF. The company is based in South San Francisco, California. To learn more, visit www.imagobio.com, www.myelofibrosisclinicalstudy.com, www.etclinicalstudy.com and follow us on Twitter [@ImagoBioRx](https://twitter.com/ImagoBioRx), [Facebook](#) and [LinkedIn](#).

Forward Looking Statements

This press release contains forward looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Words such as “anticipates,” “may,” “will,” “should,” “expect,” “believe” and similar expressions (as well as other words or expressions referencing future events, conditions or circumstances) are intended to identify forward-looking statements.

These statements may relate to, but are not limited to, the results, conduct, progress and timing of Imago clinical trials, the regulatory approval path for bomedemstat, plans for future operations, and the impact of the ongoing COVID-19 pandemic and the development of new variants of COVID-19, such as the omicron and delta variants, on enrollment of our clinical trials, as well as assumptions relating to the foregoing. Forward looking statements are inherently subject to risks and uncertainties, some of which cannot be predicted or quantified. Important factors that could affect future results and cause those results to differ materially from those expressed in the forward-looking statements include: our limited operating history and lack of products for commercial sale; our significant losses since inception and for the foreseeable future; our need for substantial additional financing; our unpredictable operating results; our business’s dependence on development, regulatory approval and commercialization of our product candidates; difficulties in enrolling patients and risks of substantial delays in our clinical trials; our minimal control over product candidates in investigator-initiated clinical trials; uncertainties in the outcomes of our clinical studies; uncertainties in the regulatory review and approval of our product candidates if our pivotal studies are positive; potentially material changes to the interim, top-line and preliminary data from our clinical trials; potential undesirable effects of our product candidates and safety or supply issues with combination-use products; our potential inability to obtain and maintain orphan drug designation and delays in approvals despite Fast Track designation; risks related to clinical trials outside of the United States; our need to manufacture multiple batches of bomedemstat using a commercial current Good Manufacturing Process; risks related to COVID-19 or other pandemics, natural disasters and wars; risks related to competition; difficulties in expanding our organization and managing growth, attracting and retaining senior management and key scientific personnel and establishing sales and other commercialization functions; risks related to information technology system and cybersecurity; risks related to misconduct of our employees and independent contractors; risks related to hazardous materials and our compliance with environmental laws and regulations; risks related to litigation and other claims; risks related to reliance on third parties to conduct and support preclinical studies and clinical trials, and to manufacture our product candidates; risks related to third-party intellectual property infringement claims and our ability to protect our own intellectual property; risks related to governmental policies and regulations including with respect to drug prices and reimbursement, and changes thereof; risks related to our common stock; risks related to our public company, “emerging growth company” and “smaller reporting company” status; risks related to internal control over financial reporting; and other risks and uncertainties, including those listed in the section titled “Risk Factors” in our Annual Report on Form 10-K for the year ended December 31, 2021 and our subsequent quarterly reports. You should not put undue reliance on any forward-looking statements. Forward looking statements should not be read as a guarantee of future performance or results and will not necessarily be accurate indications of the times at, or by, which such performance or results will be achieved, if at all.

Except as required by law, Imago does not undertake any obligation to publicly update or revise any forward-looking statement, whether as a result of new information, future developments or otherwise.

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