# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

# FORM 8-K

CURRENT REPORT Pursuant to Section 13 or 15(d) of The Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): June 24, 2021

# **CORBUS PHARMACEUTICALS HOLDINGS, INC.**

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation) 001-37348 (Commission File Number) 46-4348039 (IRS Employer Identification No.)

500 River Ridge Drive, Norwood, MA (Address of principal executive offices)

02062 (Zip Code)

Registrant's telephone number, including area code: (617) 963-0100

Not Applicable

(Former name or former address, if changed since last report.)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instruction A.2. below):

□ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

□ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

□ Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

□ Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock	CRBP	The Nasdag Global Market

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging growth company  $\Box$ 

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

#### Item 7.01. Regulation FD.

On June 24, 2021, Corbus Pharmaceuticals Holdings, Inc. (the "Company") issued a press release announcing results from its Phase 3 DETERMINE study of lenabasum in adults with dermatomyositis. A copy of the press release is attached hereto as Exhibit 99.1.

The information in this Current Report on Form 8-K under Item 7.01, including the information contained in Exhibit 99.1, is being furnished to the Securities and Exchange Commission, and shall not be deemed to be "filed" for the purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of that section, and shall not be deemed to be incorporated by reference into any filing under the Securities Act of 1933, as amended, or the Exchange Act, except as shall be expressly set forth by a specific reference in such filing.

#### Item 8.01 Other Information.

On June 24, 2021, the Company announced results from its Phase 3 DETERMINE study of lenabasum in adults with dermatomyositis.

Primary endpoint:

The study did not meet its primary endpoint of Total Improvement Score (TIS) at Week 28. Higher TIS values indicate greater overall improvement. At Week 28, the lenabasum 20 mg twice daily group achieved a mean TIS of 28.3 versus the control group mean TIS of 26.7, p = 0.1965. All subjects, including the control group, received

standard background treatments, with 89% of dosed subjects receiving  $\geq 1$  immunosuppressive or immunomodulating therapy. Additional pre-specified analyses of the overall effect of lenabasum 20 mg twice daily versus control group on TIS through Week 52 showed a trend of beneficial effect of lenabasum, nominal p = 0.0795.

### Additional findings:

Dermatomyositis patients have characteristic muscle weakness and inflammatory skin involvement. This study enrolled subjects with the two major types of dermatomyositis - classic dermatomyositis with both muscle weakness and skin involvement and dermatomyositis with no significant muscle weakness but with skin involvement. Improvement in muscle weakness is heavily weighted in the TIS score. In the overall study, higher TIS scores were seen in those subjects who had muscle weakness (Manual Muscle Test-8 muscle group score < 142) and were treated with lenabasum 20 mg twice daily versus the control group, nominal p = 0.0302. Conversely, the Cutaneous Dermatomyositis Activity and Severity Index (CDASI) activity score, a secondary endpoint in this study, is a validated outcome that was designed to assess inflammatory skin involvement in dermatomyositis. In the overall study, greater improvement (reduction) in CDASI activity scores was seen in subjects with skin involvement but no muscle weakness who were treated lenabasum 20 mg twice daily versus the control group, nominal p = 0.0166. This is a similar patient population and the same endpoint as was tested in our prior Phase 2 study (ClinicalTrials.gov Identifier: NCT02466243).

Effect of lenabasum on lung function was a secondary endpoint in this study, and no statistically significant difference was seen at Week 28 in the lenabasum 20 mg twice daily group versus control group. In the overall study, other pre-specified analyses showed that subjects on stable immunosuppressive therapies (> 1 year treatment duration) had an improvement in forced vital capacity compared to the control group, nominal p = 0.0591.

Efficacy results for the lenabasum 5 mg twice daily group were generally similar to those for the control group.

### Item 9.01 Financial Statements and Exhibits.

(d)	Exhibit No.	Description.
	99.1 104	<u>Press Release, dated June 24, 2021</u> Cover Page Interactive Data File (embedded within the Inline XBRL document).
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# SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

-3.

## CORBUS PHARMACEUTICALS HOLDINGS, INC.

Dated: June 24, 2021

By: /s/ Yuval Cohen Name: Yuval Cohen, PhD Title: Chief Executive Officer



#### Corbus Pharmaceuticals Announces Topline Results from DETERMINE Phase 3 Study of Lenabasum for Treatment of Dermatomyositis

- Study did not meet primary endpoint of Total Improvement Score (TIS) at Week 28
- Additional findings included nominally significant improvements in TIS (p = 0.0302) and CDASI (p = 0.0166) depending on the dermatomyositis subtype
- Lenabasum treatment was safe and well-tolerated in this study

Norwood, MA, June 24, 2021 (GLOBE NEWSWIRE) — Corbus Pharmaceuticals Holdings, Inc. (NASDAQ: CRBP) ("Corbus" or the "Company"), an immunology company developing innovative medicines that target inflammation, fibrosis, metabolism and immuno-oncology, today announced topline results from the Phase 3  $\underline{D}$ ETER<u>M</u>INE study of lenabasum in adults with the rare, heterogeneous, autoimmune disease dermatomyositis.

#### **Primary endpoint:**

The study did not meet its primary endpoint of Total Improvement Score (TIS) at Week 28. Higher TIS values indicate greater overall improvement. At Week 28, the lenabasum 20 mg twice daily group achieved a mean TIS of 28.3 versus the control group mean TIS of 26.7, p = 0.1965. All subjects, including the control group, received standard background treatments, with 89% of dosed subjects receiving  $\geq 1$  immunosuppressive or immunomodulating therapy. Additional pre-specified analyses of the overall effect on TIS of lenabasum 20 mg twice daily versus control group through Week 52 showed a trend of beneficial effect of lenabasum, nominal p = 0.0795.

#### Additional findings:

Dermatomyositis patients have characteristic muscle weakness and inflammatory skin involvement. This study enrolled subjects with the two major types of dermatomyositis: classic dermatomyositis with both muscle weakness and skin involvement and dermatomyositis with no significant muscle weakness but with skin involvement. Improvement in muscle weakness is heavily weighted in the TIS score. In the overall study, higher TIS scores were seen in those subjects who had muscle weakness (Manual Muscle Test-8 muscle group score < 142) and were treated with lenabasum 20 mg twice daily versus the control group, nominal p = 0.0302. Conversely, the Cutaneous Dermatomyositis Activity and Severity Index (CDASI) activity score, a secondary endpoint in this study, is a validated outcome that was designed to assess inflammatory skin involvement in dermatomyositis. In the overall study, greater improvement (reduction) in CDASI activity scores was seen in subjects with skin involvement but no muscle weakness who were treated in Corbus' previously completed Phase 2 study (ClinicalTrials.gov Identifier: NCT02466243).

Effect of lenabasum on lung function was a secondary endpoint in this study, and no statistically significant difference was seen at Week 28 in the lenabasum 20 mg twice daily group versus control group. In the overall study, other pre-specified analyses showed that subjects on stable immunosuppressive therapies (> 1 year treatment duration) had an improvement in forced vital capacity compared to the control group, nominal p = 0.0591.

Efficacy results for the lenabasum 5 mg twice daily group were generally similar to those for the control group.

#### Safety:

Safety data showed 86.5% of lenabasum-treated subjects and 85.9% of control subjects had treatment-emergent adverse events (AEs), 11.5% of lenabasum-treated subjects and 5.6% of control subjects had serious AEs, and no lenabasum-treated subject and 1 control subject discontinued study drug because of an AE related to study drug. Adverse events that occurred in  $\geq$  10% lenabasum-treated subjects and also in  $\geq$  5% more lenabasum-treated subjects than control subjects were diarrhea (12.5% versus 7.0%), dizziness (10.6% versus 4.2%), and nausea (10.6% versus 4.2%). There were fewer AEs of dermatomyositis worsening in the lenabasum 20 mg twice daily group than the control group (27 versus 44).

Data from this study will be presented at an upcoming medical conference.

"We are disappointed that the trial did not meet the primary endpoint of TIS at Week 28," said Barbara White, M.D., Chief Medical Officer and Head of Research at Corbus. "Nonetheless, we are encouraged by the results when the outcome is matched to the subtype of dermatomyositis in the study. We believe we see clinical activity of lenabasum 20 mg administered twice daily compared to the control group just receiving standard background treatments, with higher TIS scores in classic dermatomyositis subjects with muscle weakness and skin involvement and greater reduction in CDASI activity score in subjects with active skin disease but normal muscle strength. We thank the participants, investigators and clinical site study staff, and the patient advocacy community for their support of this study."

Victoria Werth, M.D., Professor of Dermatology and Medicine, University of Pennsylvania Perelman School of Medicine and Chief of Dermatology, Corporal Michael J. Crescenz VAMC, said, "I'm pleased by the improvement in CDASI activity scores seen in dermatomyositis patients with minimal active muscle disease in this study. It is difficult to conduct a large stand-alone study in just this small subtype of patients. In such a complex disease, seeing this subtype with refractory skin disease respond so well in this and the Phase 2 study is promising. These patients frequently have widespread disfiguring, symptomatic and refractory skin manifestations, and there is a need for new treatments, especially those that are not immunosuppressive. Our skin biomarker data from Phase 2 show reductions in inflammatory cytokines and T cells with lenabasum treatment compared to placebo, supporting improvement in skin disease in these patients. The improvement in TIS in subjects with muscle weakness is also interesting. It is clear to me that we have to look at the organs that are involved and use outcomes that correspond to those organs to detect change in dermatomyositis."

Yuval Cohen, Ph.D., Chief Executive Officer, commented, "We look forward to discussing the data from the Phase 2 and Phase 3 dermatomyositis studies with regulatory authorities and seeking their input on next steps. With our strong cash position, we have the resources to both advance our now diversified pipeline while also planning next steps for lenabasum."

#### DETERMINE Phase 3 Study Design

The Phase 3 trial evaluated the safety and efficacy of lenabasum in adults with active classic or amyopathic dermatomyositis who were receiving standard treatments. This international study dosed 175 subjects who were randomized 2:1:2 to receive lenabasum 20 mg twice per day (n = 69), lenabasum 5 mg twice per day (n = 35), or placebo twice per day (n = 71), all added to background treatments. The primary efficacy endpoint was the composite American College of Rheumatology/European League Against Rheumatism 2016 Total Improvement Score at Week 28, comparing lenabasum 20 mg twice daily versus placebo. Change in CDASI activity score and forced vital capacity were among secondary efficacy endpoints. As previously disclosed, in this study of up to one year duration, the timing of the primary efficacy endpoint was changed from Week 52 to Week 28.

#### About Lenabasum

Lenabasum is a novel, oral, small molecule designed to provide an alternative to immunosuppressive treatments for inflammatory or fibrotic diseases. Lenabasum binds to and activates the cannabinoid receptor type 2 (CB2), which is preferentially expressed on activated immune cells, to resolve inflammation and limit fibrosis. Data from animal models and human clinical studies suggest that lenabasum can reduce expression of genes and proteins involved in inflammation and fibrosis. In clinical testing to date, lenabasum has acceptable safety and tolerability profiles.

#### About Dermatomyositis

Dermatomyositis, a form of idiopathic inflammatory myositis, is a chronic, rare, inflammatory, clinically heterogenous, and sometimes life-threatening autoimmune disease affecting approximately 80,000 people in North America, EU and Japan.<sup>1</sup> The signs and symptoms of dermatomyositis reflect multi-organ involvement, which includes distinctive skin rashes usually accompanied by proximal muscle weakness, and can also include pulmonary, cardiac, gastrointestinal, and joint involvement.<sup>2</sup> Patients with dermatomyositis can have recurrent disease flares or chronic progressive disease activity, with increased mortality.<sup>3,4</sup> The current mainstay of treatments include FDA-approved systemic glucocorticoids and off-label use of glucocorticoid-sparing immunosuppressive or immunomodulating agents.<sup>5,6</sup> There is significant unmet need for new treatments to achieve disease control in dermatomyositis because of limited efficacy or toxicity of immunosuppressive agents or refractory disease.<sup>7,8</sup>

#### About Corbus

Corbus is committed to connecting innovation to our purpose of improving lives by developing new medicines that target inflammation, fibrosis, metabolism and immunooncology, by building upon our underlying expertise in immunology. Corbus' current pipeline includes small molecules that activate or inhibit the endocannabinoid system and anti-integrin monoclonal antibodies that block activation of TGFβ. Corbus is headquartered in Norwood, Massachusetts. For more information on Corbus, visit <u>corbuspharma.com</u>. Connect with us on <u>Twitter</u>, <u>LinkedIn</u> and <u>Facebook</u>.

#### Forward-Looking Statements

This press release contains certain forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934 and Private Securities Litigation Reform Act, as amended, including those relating to the Company's restructuring, trial results, product development, clinical and regulatory timelines, market opportunity, competitive position, possible or assumed future results of operations, business strategies, potential growth opportunities and other statement that are predictive in nature. These forward-looking statements are based on current expectations, estimates, forecasts and projections about the industry and markets in which we operate and management's current beliefs and assumptions.

These statements may be identified by the use of forward-looking expressions, including, but not limited to, "expect," "anticipate," "intend," "plan," "believe," "estimate," "potential," "predict," "project," "should," "would" and similar expressions and the negatives of those terms. These statements relate to future events or our financial performance and involve known and unknown risks, uncertainties, and other factors, including the potential impact of the recent COVID-19 pandemic and the potential impact of sustained social distancing efforts, on our operations, clinical development plans and timelines, 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. Such factors include those set forth in the Company's filings with the Securities and Exchange Commission. Prospective investors are cautioned not to place undue reliance on such forward-looking statements, which speak only as of the date of this press release. The Company undertakes no obligation to publicly update any forward-looking statement, whether as a result of new information, future events or otherwise.

### Corbus Pharmaceuticals Contacts:

Ted Jenkins, Senior Director, Investor Relations and Corporate Communications Phone: +1 (617) 415-7745 Email: <u>ir@corbuspharma.com</u>

Lindsey Smith, Director, Investor Relations and Corporate Communications Phone: +1 (617) 415-7749 Email: mediainfo@corbuspharma.com

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