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): July 8, 2025

	BiomX Inc.	
(Ex:	act Name of Registrant as Specified in its Charter	
Delaware	001-38762	82-3364020
(State or other jurisdiction of incorporation)	(Commission File Number)	(I.R.S. Employer Identification No.)
22 Einstein St., Floor 4 Ness Ziona, Israel		7414003
(Address of Principal Executive Offices)		(Zip Code)
Registrant's t	telephone number, including area code: +972 723	942377
	n/a	
(Former	r name or former address, if changed since last rep	port)
Check the appropriate box below if the Form 8-K filing is intended	d to simultaneously satisfy the filing obligation of	the registrant under any of the following provisions:
	, , , ,	
☐ Written communications pursuant to Rule 425 under the Secu	rities Act (17 CFR 230.425)	
☐ Soliciting material pursuant to Rule 14a-12 under the Exchang	ge 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 Eychange Act (17 CFR 240 13e-4(c))	
`	the Exchange Net (17 CTR 240.13C 4(c))	'
Securities registered pursuant to Section 12(b) of the Act:		
Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, \$0.0001 par value	PHGE	NYSE American
Indicate by check mark whether the registrant is an emerging grow the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).	wth company as defined in Rule 405 of the Security	ities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of
Emerging growth company □		
If an emerging growth company, indicate by check mark if the rea accounting standards provided pursuant to Section 13(a) of the Exc		tion period for complying with any new or revised financial

Item 7.01 Regulation FD Disclosure.

On July 8, 2025, BiomX Inc., or the Company, issued a press release announcing the publication of a peer-reviewed article in Nature Communications presenting new efficacy data from the Phase 1b/2a trial of BX004 in cystic fibrosis patients with chronic Pseudomonas aeruginosa infections. A copy of the press release is furnished as Exhibit 99.1. The Company also posted an updated corporate slide presentation on its website, furnished as Exhibit 99.2. The Company undertakes no obligation to update, supplement or amend the materials attached hereto as Exhibit 99.2.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits

Exhibit	Description
99.1	Press Release dated July 8, 2025, titled "BiomX Announces Publication in Nature Communications of Phage Cocktail BX004 Phase 1b/2a Part 1 Data
	Demonstrating Strong Activity in Cystic Fibrosis" (furnished herewith)
99.2	Corporate Presentation Deck dated July 8, 2025 (furnished herewith)
104	Cover Page Interactive Data File (embedded within the Inline XBRL documents)

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.

BIOMX INC.

July 8, 2025 By: /s/ Jonathan Solomon

Name: Jonathan Solomon Title: Chief Executive Officer

BiomX Announces Publication in Nature Communications of Phage Cocktail BX004 Phase 1b/2a Part 1 Data Demonstrating Strong Activity in Cystic Fibrosis

Premier research journal article provides validation for BiomX's phage therapy platform, showcasing first-in-human Phase 1b/2a trial results for antibiotic-resistant P.

aeruginosa infections

New, updated data demonstrates a further bacteria reduction of 2.7 log10 (approximately 500-fold) compared to placebo, with no emergent resistance and preservation of a healthy microbiome

BiomX is advancing its Phase 2b trial of BX004 with topline results expected Q1 2026

NESS ZIONA, Israel, July 8, 2025 -- BiomX Inc. (NYSE American: PHGE) ("BiomX" or the "Company"), a clinical-stage company advancing novel natural and engineered phage therapies that target specific pathogenic bacteria, today announced the publication of a peer-reviewed article in *Nature Communications* titled, "Phage therapy with nebulized cocktail BX004-A for chronic *Pseudomonas aeruginosa* infections in cystic fibrosis: a randomized first-in-human trial". The article notably features previously unreported antimicrobial efficacy data from the Phase 1b/2a clinical trial and reinforces the strength of BiomX's innovative approach to developing bacteriophage therapies for chronic disease with substantial unmet needs. The publication is available at: Link.

"The publication of our peer-reviewed results in a preeminent research journal, including new data showing antimicrobial activity of BX004, provides significant third-party validation of our phage therapy platform to treat patients with chronic *P. aeruginosa* cystic fibrosis (CF) infections," said Jonathan Solomon, BiomX's Chief Executive Officer. "Building upon the strong scientific rigor of our clinical program and our findings in patients showing meaningful bacterial reduction where antibiotics have failed, we have initiated our Phase 2b trial of BX004, with topline results expected in the first quarter of 2026."

The peer-reviewed results of Part 1 of BiomX's BX004 Phase 1b/2a study include new analyses showing that BX004 achieved a substantially greater improvement of approximately 500-fold (additional improvement of 2.7 log10) in bacterial reduction compared with placebo in CF patients. Notably, the data highlights that no bacterial resistance to BX004 emerged during the trial, addressing a critical limitation of traditional antibiotics. Findings from Part 1 of the Phase 1b/2a study were consistent with the results observed in Part 2.

"Drawing on decades of experience in large-scale genomic analysis and bacterial defense mechanisms, the study demonstrates how large-scale data analysis can be used to optimize bacteriophage cocktails for treating chronic infection associated with cystic fibrosis," said Rotem Sorek, Ph.D., Professor of Genetics, Weizmann Institute of Science. "By combining experimental and computational methods, we've developed a design approach that broadens bacterial strain coverage, lowers the likelihood of resistance, and enhances activity against bacterial biofilms, establishing an effective framework for designing next-generation bacteriophage therapeutics."

Key Highlights from the Study

Part 1 of BiomX's Phase 1b/2a study evaluated the safety, tolerability, pharmacokinetics, and anti-microbiologic activity of BX004 over a 7-day treatment period in nine CF patients (seven on BX004, two on placebo) with chronic *P. aeruginosa* pulmonary infection. The Part 1 data demonstrated:

- Strong Safety Profile: BX004 was safe and well-tolerated with no treatment-related safety events across all patients and dose levels tested.
- Successful bacterial reduction achieved: At day 15, BX004-treated patients showed a negative 1.42 log10 reduction in *P. aeruginosa* bacteria from baseline, while patients receiving placebo worsened by +1.26 log10 CFU/g. This 2.7 log10 CFU/g treatment effect (which represents approximately a 500-fold, or 99.8%¹, greater bacterial reduction with BX004 versus placebo) was achieved on top of standard of care inhaled antibiotics. These findings resulted from an additional *post hoc* analysis and are being reported for the first time. Results at day 4 during BX004 treatment showed *P. aeruginosa* burden reduction (1.9 log10 CFU per gram of sputum difference between groups).
- Therapeutic phages successfully reached and persisted at infection site: Phages were detected in all patients treated with BX004 during the dosing period, including in several patients up to day 15 (one week after end of therapy). As expected, no phages were detected in patients receiving placebo.
- No bacterial resistance to treatment: There was no emerging treatment-related resistance to BX004 during or after treatment with BX004, addressing efficacy of phage against bacteria where resistance is common amongst traditional antibiotics.
- Favorable shifts in microbiome composition post treatment: Microbiological signals included a reduction in *P. aeruginosa* relative abundance and an increase in microbiome alpha diversity in the phage-treated group, in contrast to the placebo group.
- 1 A 2.7 log₁₀ reduction represents a $10^{\circ}2.7 = \sim 500$ -fold reduction in bacterial load, which equates to approximately 99.8% reduction.

The Nature Communications publication describes the full translational path from laboratory discovery to clinical testing. Environmental phages were isolated and screened using P. aeruginosa grown under conditions mimicking the CF lung environment. In silico screening confirmed the absence of known genes associated with antibiotic resistance or virulence.

About BX004

BiomX is developing BX004, a fixed multi-phage cocktail, for the treatment of CF patients with chronic pulmonary infections caused by P. aeruginosa, a main contributor to morbidity and mortality in patients with CF. In February 2023, BiomX announced positive results from Part 1 of the Phase 1b/2a study, showing safety, tolerability, and microbiologic activity. In November 2023, BiomX announced positive topline results from Part 2 of the Phase 1b/2a trial, in which BX004 demonstrated improvement in pulmonary function associated with a reduction in P. aeruginosa burden compared to placebo in a predefined subgroup of patients with reduced lung function (baseline FEV1<70%). BiomX is now enrolling patients in a randomized, placebo-controlled Phase 2b trial of BX004 in CF patients with chronic P. aeruginosa lung infections. The 8-week study will assess lung function, bacterial load, and quality of life metrics. BX004 has received U.S. Food and Drug Administration Fast Track and Orphan Drug Designations.

About BiomX

BiomX is a clinical-stage company leading the development of natural and engineered phage cocktails and personalized phage treatments designed to target and destroy harmful bacteria for the treatment of chronic diseases with substantial unmet needs. BiomX discovers and validates proprietary bacterial targets and applies its BOLT ("BacteriOphage Lead to Treatment") platform to customize phage compositions against these targets. For more information, please visit www.biomx.com, the content of which does not form a part of this press release.

Safe Harbor

This press release contains express or implied "forward-looking statements" within the meaning of the "safe harbor" provisions of the U.S. Private Securities Litigation Reform

Act of 1995. Forward-looking statements can be identified by words such as: "target," "believe," "expect," "will," "may," "anticipate," "estimate," "would," "positioned," "future," and other similar expressions that predict or indicate future events or trends or that are not statements of historical matters. For example, when BiomX refers to its plans to initiate and enroll patients in the Phase 2b trial and timing of topline results thereof, enrollment of patients in a Phase 2b trial of BX004, the Company's leadership in developing natural and engineered phage cocktails and personalized phage treatments for chronic diseases, the potential safety, efficacy and toleration of BX004, the potential benefits of BX004, future clinical development of BX004, and the potential of its candidates to address the substantial unmet needs of patients with intractable infections, it is using forward-looking statements. Forward-looking statements are neither historical facts nor assurances of future performance. Instead, they are based only on BiomX management's current beliefs, expectations and assumptions. Because forward-looking statements relate to the future, they are subject to inherent uncertainties, risks and changes in circumstances that are difficult to predict and many of which are outside of BiomX's control. These risks and uncertainties include, but are not limited to, changes in applicable laws or regulations; the possibility that BiomX may be adversely affected by other economic, business, and/or competitive factors, including risks inherent in pharmaceutical research and development, such as: adverse results in BiomX's drug discovery, preclinical and clinical development activities, the risk that the results of preclinical studies and early clinical trials may not be replicated in later clinical trials, BiomX's ability to enroll patients in its clinical trials, and the risk that any of its clinical trials may not commence, continue or be completed on time, or at all; decisions made by the FDA and other regulatory authorities; decisions made by investigational review boards at clinical trial sites and publication review bodies with respect to our development candidates; BiomX's ability to obtain, maintain and enforce intellectual property rights for its platform and development candidates; its potential dependence on collaboration partners; competition; uncertainties as to the sufficiency of BiomX's cash resources to fund its planned activities for the periods anticipated and BiomX's ability to manage unplanned cash requirements; and general economic and market conditions. Therefore, investors should not rely on any of these forward-looking statements and should review the risks and uncertainties described under the caption "Risk Factors" in BiomX's Annual Report on Form 10-K filed with the Securities and Exchange Commission (the "SEC") on March 25, 2025, and additional disclosures BiomX makes in its other filings with the SEC, which are available on the SEC's website at www.sec.gov. Forward-looking statements are made as of the date of this press release, and except as provided by law, BiomX expressly disclaims any obligation or undertaking to update forward-looking statements.

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SAFE HARBOR STATEMENT

About this Presentation

The information contained in this presentation has been prepared by BiomX Inc. and its subsidiaries (collectively, the "Company" or "BiomX") and contains information pertaining to the business and operations of the Company. The information contained in this presentation is current only as of the date on its cover. For any time after the cover date of this presentation, the information, including information concerning our business, financial condition, results of operations and prospects, may have changed. The delivery of this presentation shall not, under any circumstances, create any implication that there have been no changes in our affairs after the date of this presentation. We have not authorized any person to give any information or to make any representations about us in connection with this presentation that is not contained herein. If any information has been or is given or any representations have been or are made to you outside of this presentation, such information or representations should not be relied upon as having been authorized by us.

Forward-Looking Statements

This presentation contains certain "forward-looking statements" within the meaning of the "safe harbor" provisions of the U.S. Private Securities Litigation Reform Act of 1995. Forward-looking statements can be identified by words such as: "target," "believe," "expect," "will," "may," "anticipate," "estimate," "would," "positioned," "future," and other similar expressions that predict or indicate future events or trends or that are not statements of historical matters. Forward-looking statements are neither historical facts nor assurances of future performance. Instead, they are based only on BiomX management's current beliefs, expectations and assumptions. For example, when we discuss future potential clinical trials, including their design, objectives, costs, endpoints, potential benefits and timing thereof, the potential outcomes of discussions that we may have with the U.S. Food and Drug Administration ("FDA") and foreign regulatory agencies, including timing thereof, the use of Real World Evidence and potential to obtain accelerated approval, among others, potential commercial opportunities, the potential to use our product candidates for new indications, our financial needs to fund future clinical trials, forecasted expenses and our ability to protect our intellectual property assets in the future we are making forward-looking statements. In addition, past and current pre-clinical and clinical results, as well as compassionate use, are not indicative and do not guarantee future success of BiomX clinical trials. Because forward-looking statements relate to the future, they are subject to inherent uncertainties, risks and changes in circumstances that are difficult to predict and many of which are outside of our control. Actual results and outcomes may differ materially from those indicated in the forward-looking statements. Therefore, you should not rely on any of these forward-looking statements. You should review additional disclosures we make in our filings with the Securities and Exchange Commission (t

No Offer or Solicitation

This presentation is for informational purposes only. Nothing in this presentation constitutes an offer to buy or sell or a solicitation of an offer to buy or sell investments, loans, securities, partnership interests, commodities or any other financial instruments. This presentation and any oral statements made in connection with this presentation do not constitute and may not be used for or in connection with, an offer or solicitation by anyone in any state or jurisdiction in which such an offer or solicitation is not authorized or permitted, or to any person to whom it is unlawful to make such offer or solicitation.

Trademarks and Service Marks

The trademarks and service marks included herein are the property of the owners thereof and are used for reference purposes only. Such use should not be construed as an endorsement of such products.

FDA

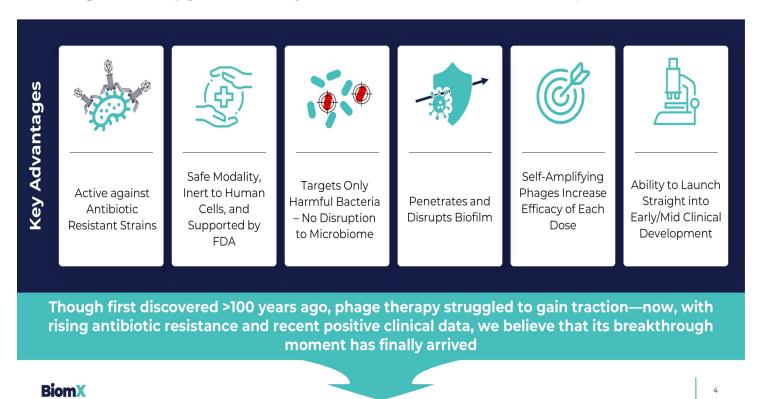
This presentation concerns certain products that are under clinical investigation and which have not yet been cleared for marketing by the FDA. These products are currently limited by federal law to investigational use, and no representation is made as to the safety or effectiveness of these products for the purposes for which they are being investigated.



Antimicrobial Resistance: Rising concerns and limited treatment options underscore the urgent need for novel therapies



Phage Therapy: A century-old solution with renewed promise



Phage Therapy Momentum: Growing clinical data signal a pivotal moment ahead1



March 2025: BiomX positive P2 data

41 patients

Diabetic Foot Osteomyelitis

BiomX



39 patients

Urinary tract infections



Nov. 2023: BiomX positive P1b/2a data

43 patients

Cystic Fibrosis

BiomX



50 patients

Bacteremia

- Emergence of first well-controlled, double-blind, placebo-controlled phage therapy trials
- BiomX the first to show statistically significant clinical efficacy in a chronic bacterial infection
- Phage therapy added benefits on top of standard-of-care, including antibiotics
- Phage therapeutics targeting high-need indications—some with no approved treatments



- Tempers of pourts and other companies developing phage therapies. Disclaimer BiomX is not responsible for, and expressly disclaims responsibility for, the content of third party press releases ocus Biosciences. Locus Biosciences Announces Positive Results from Part 1 of ELIMINATE Phase 2 Trial of the Engineered Bacteriophage Therapy LBP-EC01 Published in The Lancet Infectious Diseases. lobeNewswire. August 12, 2024.

 mala Pharmaceuticals Announces Positive Topline Data from the Phase 1b/2a diSArm Study of Intravenously Administrated AD 8888 in Contract Co

Company Overview:

BiomX's Phage Therapy Solutions

Alarming rise in antimicrobial resistance signals urgent need for better treatment

Phage therapy emerging as a powerful solution for persistent infections, supported by growing body of efficacy and safety data

BX211 – *S. aureus* infections

Positive efficacy and safety data (Phase 2) in DFI & DFO with S. aureus infection, showing sustained ulcer reduction and superior recovery outcomes in bone-depth ulcers

Planned Phase 2/3 pending regulatory discussions

Potential additional Phase 2 ready indications: PJI

BX004 – *P. aeruginosa* infections

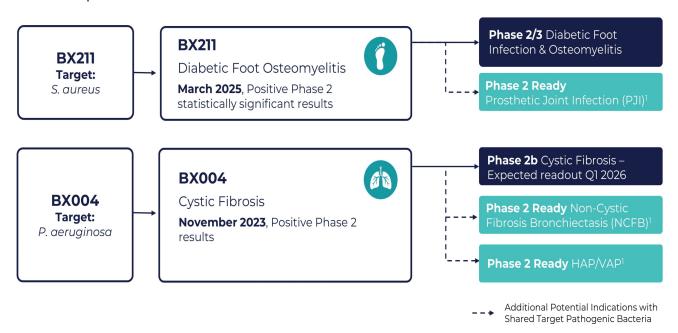
Positive Phase 1b/2a data in CF patients with P. aeruginosa infection, demonstrating sputum culture conversion, improved lung function, and bacterial reduction

Phase 2b study ongoing

Potential additional Phase 2 ready indications: NCFB, HAP/VAP



Shared Targets, Expanded Potential: Clinical efficacy opens the door to potential additional Phase 2 studies across related infections

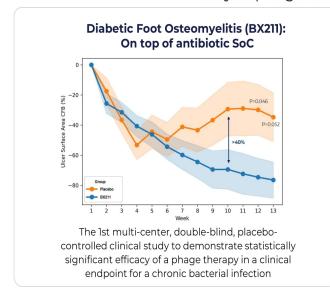


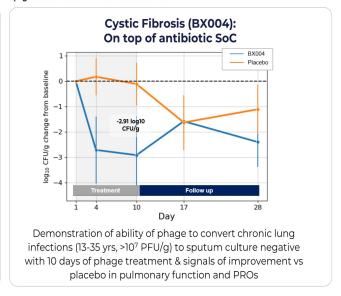
BiomX

 ${\it 1.}\, {\it Additional potential indications\,that\,could\,be\,pursued\,with\,shared\,target\,bacteria\,as\,parent\,program}$

BiomX's Groundbreaking Phase 2 Results

Efficacy of phage therapy across indications







Two positive phase 2 trials in separate indications



Two different bacterial targets



Two routes of administration



CFB - Change From Baseline; SoC - Standard of Care; CFU - Colony Forming Units; PFU - Plaque Forming unit;

BiomX—Built on a Strong Foundation: Backed by leaders in science, industry, and capital

Strong Science & Scientific Founders



Trusted by top biotech and healthcare investors



Working with mission-aligned global leaders



BiomX 1. >\$200M raised from the invest



Disease Burden: DFI & DFO drive diabetic amputations, burdening the healthcare system









Staphylococcus aureus is the most common bacteria present in DFI / DFO

Standard of Care Suboptimal efficacy leading to high rate of

amputation

Moderate-to-severe DFI & DFO SoC: 4-6 weeks of IV/oral antibiotics / debridement / offloading

Approved Therapy: Last drug approved for DFI in 2005 with no approved drugs for DFO in the US

 $\textbf{Poor Prognosis:}\ 20\text{-}40\%\ of\ cases\ result\ in\ amputation, increasing\ 5\text{-year\ mortality\ rate\ up\ to}\ 50\%$

Economic BurdenSignificant burden on both patients and healthcare system







Diagnosed diabetes, US 2024¹ Lower limb amputations due to DFI/DFO² Annual cost to US healthcare system (~\$50K direct cost per patient)



CDC National Diabetes Statistics Report, last visited March 2025 based on crude estimates for 2021

American Diabetes Association. (n.d.). Amputation Prevention Alliance. Retrieved June 8, 2025Nilsson, 2018 & Brooks 2021

Phase 2 Study Design: Multicenter, double blind, placebocontrolled study to assess improvement of clinical outcomes

Primary Endpoint:

Percent area reduction of study ulcer through Week 13

Enrollment:

41 patients with Diabetic Foot Osteomyelitis positive for S. aureus

Background standard of care antibiotic



Intervention: IV & topical



Primary Endpoints:

 Percent area reduction of study ulcer through Week 13

BX211:

 Phage originating from a 'phage-bank', personally matched for each patient's S. aureus Topline results from week 13 available

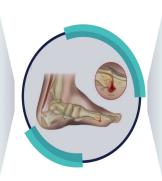
Results Highlight: Phase 2 diabetic foot osteomyelitis



Safe and well-tolerated

¥ ✓ Sustained and **₹** statistically significant **PAR ulcer size** reduction1

> √ Separation from placebo starting at week 7 with a difference greater than 40% by week 10





Statistically significant improvements in ulcer depth in patients with ulcers at bone depth



Favorable trends compared to placebo across **several** additional clinical parameters

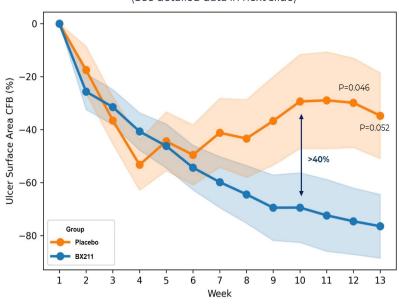


BiomX

1. Ulcer depth was classified according to deepest tissue involved as measured by swab)
PAR- Percentage Area Reduction

Percent Area Reduction (PAR) from baseline of ulcer surface area (LS Mean ± SE)2

(See detailed data in next slide)





Efficacy (2): BX211 showed clinically relevant, statistically significant², reduction in ulcer surface area

Percent Area Reduction (PAR) from baseline of ulcer surface area (LS Mean ± SE)1

(Detailed data from previous slide)

PAR at week:		1	Placebo	Difference (95% CI)	P-value ²	
PAR at week:	N (%) Mean (95% CI)		N (%) Mean (95% CI)			
Week 12	22 (84.6%)	-74.57% (-100.78, -48.35)	12 (80.0%)	-29.85% (-65.08, 5.38)	-44.72% (-88.65, -0.78)	0.046
Week 13	20 (76.9%)	-76.43% (-101.56, -51.30)	12 (80.0%)	-34.70% (-68.42, -0.99)	-41.73% (-83.80, 0.34)	0.052

	BX211			Placebo	Difference (95% CI)	P-value	
	N, e (%)	Mean (95% CI)	N, e (%)	Mean (95% CI)	Difference (95% CI)	P-value	
Through weeks 1 to 13 ³ :	N=26, e=264 (90.5%)	-57.05% (-39.07, -75.04)	N=15, e=164 (84.1%)	-37.09% (-12.91, -61.27)	-19.96% (10.20, -50.12)	0.186	

N = Number of patients, e = Number of events

Week	1	2	3	4	5	6	7	8	9	10	11	12	13
BX211 (N)	26	23	23	25	24	23	22	19	23	23	22	22	20
Placebo (N)	14	14	13	12	14	12	12	12	12	12	12	12	12

Efficacy (3): Patients with ulcers at bone depth¹ displayed statistically significant² better recovery in the BX211 group





For all patients at FAS (Full Analysis Set) population that had measured bone involvement at baseline and have a measured tissue involvement at week 13 as measured by a sw. The statistical test performed is Miettinen-Nurminen test, with p= 0.048, not adjusted



Cystic Fibrosis: Chronic pulmonary infections and the inflammatory response are primary causes of death in CF

Cystic FibrosisThick mucus promotes chronic bacteria



Thickened Mucus

Airway with CF

Thick, sticky mucus traps bacteria and hinders normal airway clearance, fostering chronic lung infections, often driven by *Pseudomonas* aeruginosa

Standard of Care

infections

Antibiotic resistance is associated with worse outcomes

Chronic management: Inhaled antibiotics, CFTR1 modulators, airway clearance therapies, azithromycin

Drug-resistance: After prolonged and repeated antibiotic courses, increased resistance to antibiotics lowers efficacy and drives lung function decline and mortality in CF

Large Unmet Need

A significant number of CF patients suffer from chronic PsA infections



Prevalent CF Patients, Worldwide²



Prevalent CF Patients, US²



CF Patients Suffering from Chronic PsA infections, US and Western EU³

Phase 1b/2a Study Design: Multicentered, double blind, placebocontrolled study to assess safety, reduction of PsA burden and improvement in clinical outcomes



Key Endpoints:

- · Safety and tolerability
- Decrease in PsA burden
- FEV1 (forced expiratory volume)
- CFQ-R (CF Questionnaire-Revised) and CRISS

Topline results from Part 1 and 2 available



CFTR - cystic fibrosis transmembrane conductance regulator; Image of phage product is intended as an illustration only, and may not represent the number of phages administered 1. Study design informed by input from the CF Foundation 2. 7 days duration - 3 ascending, 4 multiple dosing

Results Highlight: Phase 1b/2a cystic fibrosis (Part 1 and 2)

Study drug was well-tolerated

Reduction in bacterial load

Part 1, at Day 15: 2.7 log₁₀ CFU/g treatment effect (represents approximately a 500-fold, or 99.8%, greater bacterial reduction with BX004 versus placebo)

In Part 2, in a prespecified subgroup of patients on SOC inhaled antibiotics on continuous regimen, BX004 vs. placebo showed bacterial reduction of 2.8 log10 CFU/g at EOT, exceeding Part 1 results

Culture conversion

Part 2, in the BX004 arm, 3 of 21 (14.3%) patients converted to sputum culture negative for PsA after 10 days of treatment compared to 0 out of 10 (0%) in the placebo arm¹

In Part 1, 1 of 7 (14.3%) treated patients also had converted based on physician report

Clinical efficacy

BX004 showed signals of improvement in pulmonary function vs. placebo: Relative FEV12 improvement (5.67%) and CF Questionnaire-Revised respiratory2 (8.87 points) at Day 17 (1 week after EOT) in subgroup of patients with reduced lung function3

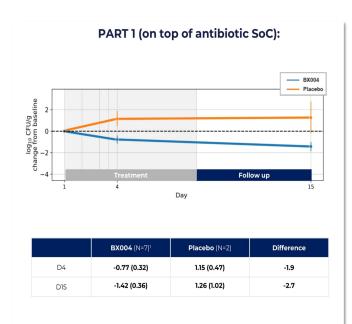


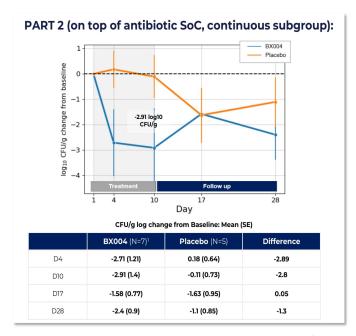
CFU- Colony forming units; SOC – standard of Care: EOT – End of treatmen

FEV (or ppFEV) – percent predicted forced expiratory olume in 1 second, CF Questionnaire-Revised Respiratory – a PRO (Patient reported outcome) for respiratory parameters in CF patien

20

Efficacy (1): BX004 demonstrated greater reduction in PsA levels compared to placebo





Efficacy (2): BX004 showed greater conversion (bacterial culture turned negative) in treatment over placebo

In the BX004 arm 3 out of 21 (14.3%) patients converted to sputum culture negative for P. aeruginosa after 10 days of treatment (2 already after 4 days)2. In the placebo arm 0 out of 10 (0%)2

Patients which were converted:

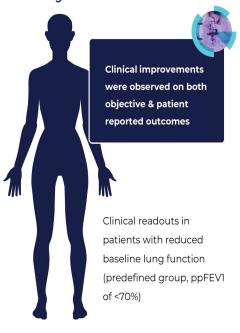
Patient	Duration of PsA infection (years)	Baseline <i>PsA</i> ¹ in sputum (CFU/g)
1	18	2.40x10 ³
2	13	5.60x10 ⁷
3	35	1.09x10 ⁷

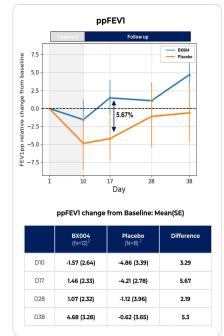
In addition, in Part 1 of the study, one subject in the BX004 arm (1/7: 14.3%) who was persistently positive for PsA for at least 13 years had a 3.3 log reduction at D15 later converted to sputum negative

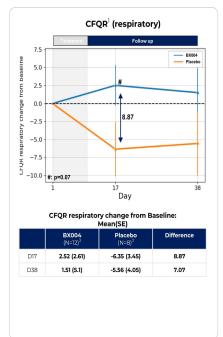


1. PsA – Pseudomonas aeruginosa, CFU/g – Colony forming units per gram
2. In patients that had quantitative CFU levels at study baseline

Efficacy (3): BX004 shows meaningful clinical improvement after 10 days of treatment in multiple clinical readouts







BiomX

Phase 2b Study: Study design

International, multicenter, double blind, placebo-controlled study to assess reduction of PsA burden and improvement in clinical outcome



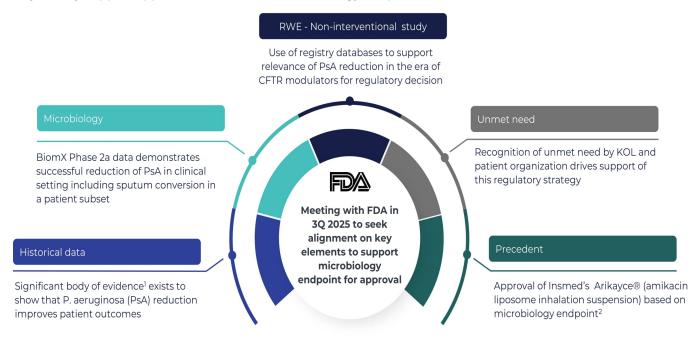
Key Endpoints:

- · Decrease in PsA burden (incl. Culture conversion/eradication)
- FEV1 (forced expiratory volume)
- CFQ-R (CF Questionnaire-Revised) and CRISS
- · Safety and tolerability

Topline results expected in Q1 2026

BiomX Regulatory Strategy

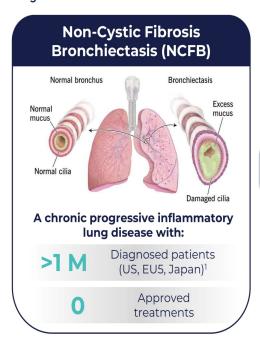
P. aeruginosa (PsA) reduction improves patient outcomes, and ongoing real-world evidence (RWE) analysis may support approval based on this microbiology endpoint

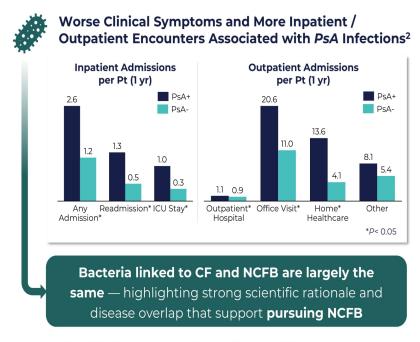




Journal of Cystic Fibrosis 22 (2023) 98-102, Pediatric Pulmonology 47:44-52 (2012)
Arikayce [armikacin liposome inhalation suspension] received accelerated approval from the FDA in September 2018 for treating Mycobacterium avium complex (MAC) lung disease in adults with limited or no alternative treatment options. This approval was based on the drug's ability to achieve sputum culture conversion (defined as 3 consecutive negative monthly sputum cultures) by Month 6, when combined with a multidrug therapy regimen. Continued approval is contingent upon the results of ongoing confirmatory trials verifying clinical benefit.

NCFB: A promising next candidate given its medical similarity to cystic fibrosis





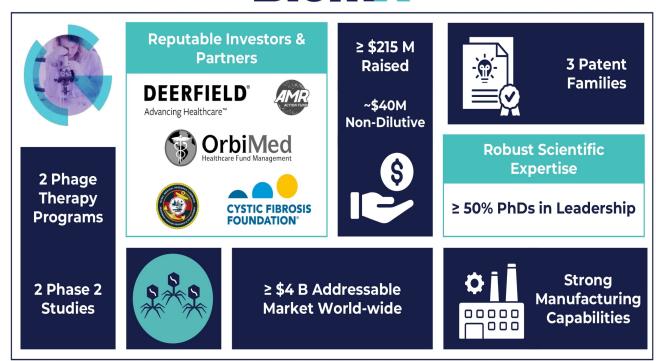
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