

**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): March 26, 2022

KRYSTAL BIOTECH, INC.
(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction
of incorporation)

001-38210
(Commission
File Number)

82-1080209
(IRS Employer
Identification Number)

**2100 Wharton Street, Suite 701
Pittsburgh, Pennsylvania 15203**
(Address of principal executive offices, including Zip Code)

Registrant's telephone number, including area code: (412) 586-5830

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:

- 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))

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	KRYS	Nasdaq Capital 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

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 Disclosure.

On March 26, 2022, Krystal Biotech, Inc. (the “Company”) presented more detailed results from the GEM-3 Phase 3 study of beremagene geperpavec (B-VEC), an investigational, topical gene therapy, for the treatment of dystrophic epidermolysis bullosa (DEB), at the 2022 American Academy of Dermatology (“AAD”) Annual Meeting in Boston, Massachusetts. In addition, the Company hosted an investor conference call at 8:00 a.m. ET on March 28, 2022 to discuss the more detailed results from the GEM-3 Phase 3 study. A copy of the slide presentation used on the investor conference call, which includes the slides presented at the AAD meeting, is attached hereto as Exhibit 99.1 and is incorporated herein by reference. The slide presentation is also available on the “Investors” section of the Company’s website at www.krystalbio.com.

This information in this Item 7.01 of this Current Report on Form 8-K and in Exhibit 99.1 shall not be deemed “filed” for 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, or incorporated by reference in any filing made by the Company pursuant to the Securities Act of 1933, as amended, or the Exchange Act, except as shall be expressly set forth by specific reference in such filing.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

<u>Exhibit No.</u>	<u>Description</u>
99.1	Slide Presentation for Investor Conference Call
104	Cover Page Interactive Data file (embedded within the Inline XBRL document)

SIGNATURES

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

Date: March 28, 2022

KRYSTAL BIOTECH, INC.

By: /s/ Krish S. Krishnan

Name: Krish S. Krishnan

Title: Chairman and Chief Executive Officer



AAD GEM-3 Phase 3 Data Conference Call

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Forward looking statements

This presentation contains forward-looking statements that involve substantial risks and uncertainties. Any statements in this presentation about future expectations, plans and prospects for Krystal Biotech, Inc. (the "Company"), including but not limited to statements about the development of the Company's product candidates, such as the future development or commercialization of B-VEC (beremagene geperpavec), and the Company's other product candidates; conduct and timelines of preclinical and clinical trials, the clinical utility of B-VEC and the Company's other product candidates; plans for and timing of the review of regulatory filings, efforts to bring B-VEC and the Company's other product candidates to market; the market opportunity for and the potential market acceptance of B-VEC; plans to pursue research and development of product candidates and the Company's technology; the sufficiency of the Company's existing cash resources; and other statements containing the words "anticipate", "believe", "estimate", "expect", "intend", "may", "plan", "predict", "project", "target", "potential", "likely", "will", "would", "could", "should", "continue" and similar expressions, constitute forward-looking statements within the meaning of The Private Securities Litigation Reform Act of 1995. Actual results may differ materially from those indicated by such forward-looking statements as a result of various important factors, including: the content and timing of decisions made by the U.S. Food and Drug Administration, European Medicines Agency and other regulatory authorities; the uncertainties inherent in the initiation and conduct of clinical trials, availability and timing of data from clinical trials; whether results of early clinical trials or studies in different disease indications will be indicative of the results of ongoing or future trials; uncertainties associated with regulatory review of clinical trials and applications for marketing approvals; the availability or commercial potential of product candidates; the ability to retain and hire key personnel; the sufficiency of cash resources and need for additional financing; and such other important factors as are set forth in the Company's annual and quarterly reports and other filings on file with the U.S. Securities and Exchange Commission. In addition, the forward-looking statements included in this presentation represent the Company's views as of the date of this presentation. The Company anticipates that subsequent events and developments will cause its views to change. However, while the Company may elect to update these forward-looking statements at some point in the future, it specifically disclaims any obligation to do so. These forward-looking statements should not be relied upon as representing the Company's views as of any date subsequent to the date of this presentation.

This presentation also contains estimates and other statistical data made by independent parties and by us relating to market size and growth and other data about our industry. This data involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates. Neither we nor any other person makes any representation as to the accuracy or completeness of such data or undertakes any obligation to update such data after the date of this presentation. In addition, projections, assumptions and estimates of our future performance and the future performance of the markets in which we operate are necessarily subject to a high degree of uncertainty and risk.

Agenda

- | | | |
|----------|--|---|
| 1 | Introductory Comments | Krish Krishnan – Chairman and CEO |
| 2 | DEB Background and GEM-3 Results
(AAD Late-Breaking Presentation) | Dr. Hubert Chen – SVP, Clinical Development |
| 3 | Market Opportunity and Commercial Preparations | Andy Orth – Chief Commercial Officer |
| 4 | Closing and Q&A | Krish Krishnan – Chairman and CEO |

Krystal Biotech: Bringing Transformative, Redosable Gene Therapies to Underserved Patient Populations



Leader in the science of redosable gene therapies – powered by proprietary HSV-1 vector technology



Initial focus on rare dermatologic diseases established clinical POC and a broad pipeline



Fully integrated, commercial-ready/pivotal gene therapy company



Expanded focus on larger indications, new tissue types and alternative routes of administration



Well funded with cash of \$502.5 million¹, providing runway through multiple clinical and commercial milestones

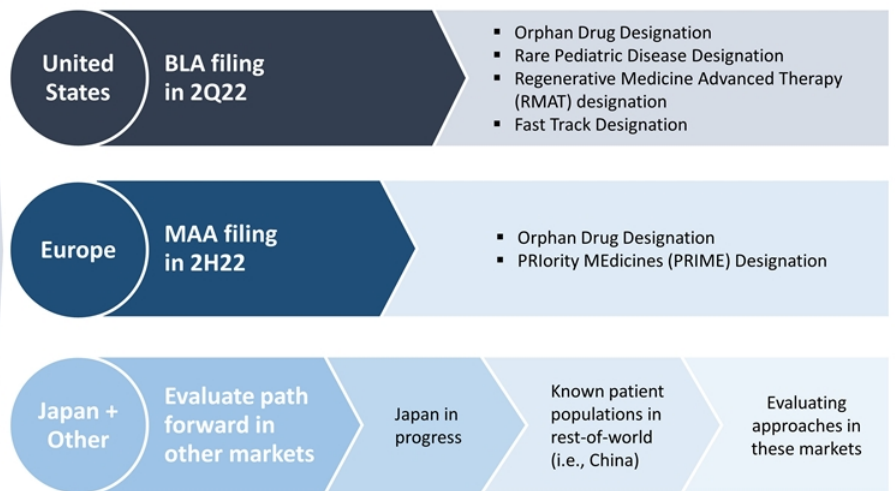
¹ Cash position as of December 31, 2021

Lead Program: B-VEC (beremagene geperpavec) for DEB

A Topical Redosable Gene Therapy Designed to Treat Dystrophic EB

- Topically applied B-VEC gel designed to induce local COL7 expression and molecular correction
- Topline Phase 3 data announced in Nov 2021; Detailed data presented at AAD in March 2022
- > 2,500 patients diagnosed across the US, Europe and ROW¹
- Global commercial & medical teams with deep expertise in rare diseases

1. Internal data on file



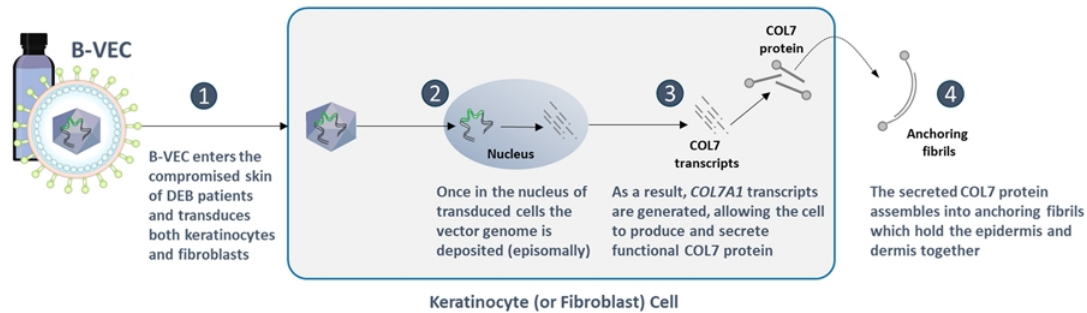
Dr. Hubert Chen

SVP, Clinical Development



Dystrophic Epidermolysis Bullosa and B-VEC

- Dystrophic epidermolysis bullosa (DEB) is a serious, ultra-rare genetic blistering disease caused by mutations in the *COL7A1* gene which lead to skin fragility and wounds¹⁻³
 - Patients with DEB are at increased risk for serious complications, including aggressive squamous cell carcinoma⁴⁻⁶; management is currently supportive in nature^{7,8}
- Beremagene geperpavec (B-VEC) is an investigational HSV-1-based topical, redosable gene therapy designed to restore functional COL7 protein by delivering the *COL7A1* gene
 - B-VEC utilizes a differentiated HSV-1 vector platform that allows for episomal delivery, high payload capacity, tropism for skin cells, and evades the immune system enabling repeat delivery

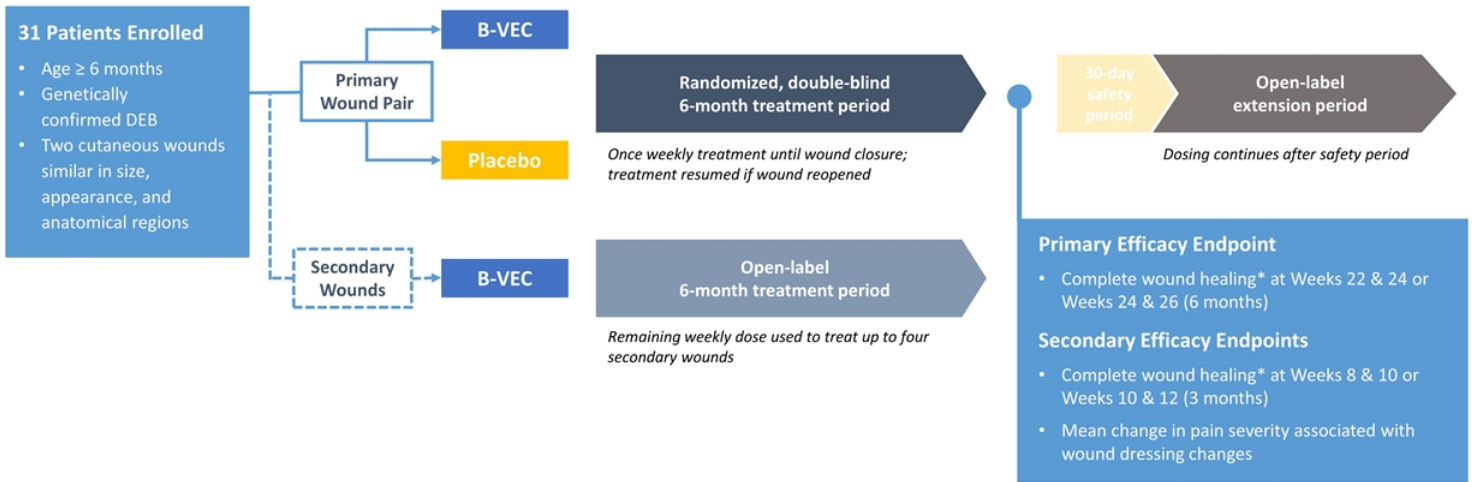


1. Fine J-D, et al. *J Am Acad Dermatol.* 2014;70(6):1103-1126; 2. Fine J-D. *JAMA Dermatol.* 2016;152(11):1231-1238; 3. Bardhan A, et al. *Nat Rev Dis Primers.* 2020 Sep 24;6(1):78; 4. Condorelli A, et al. *Int J Mol Sci.* 2019;20(22):5707; 5. Montaudié H, et al. *Orphanet J Rare Dis.* 2016;11(1):117; 6. Fine J-D, Mellerio JE. *J Am Acad Dermatol.* 2009;61:367-384; 7. Denyer J, et al. Accessed March 16, 2022. <https://www.woundsinternational.com/download/resource/5921>; 8. Bruckner AL, et al. *Orphanet J Rare Dis.* 2020;15(1):1.

B-VEC, beremagene geperpavec; COL7, type VII collagen; *COL7A1*, collagen type VII alpha 1 chain; DEB, dystrophic epidermolysis bullosa; HSV-1, herpes simplex virus type 1

GEM-3 Study Design

- GEM-3 (NCT04491604) is a Phase 3, multicenter, randomized, double-blind, placebo-controlled intra-patient study evaluating the efficacy and safety of B-VEC in patients with DEB

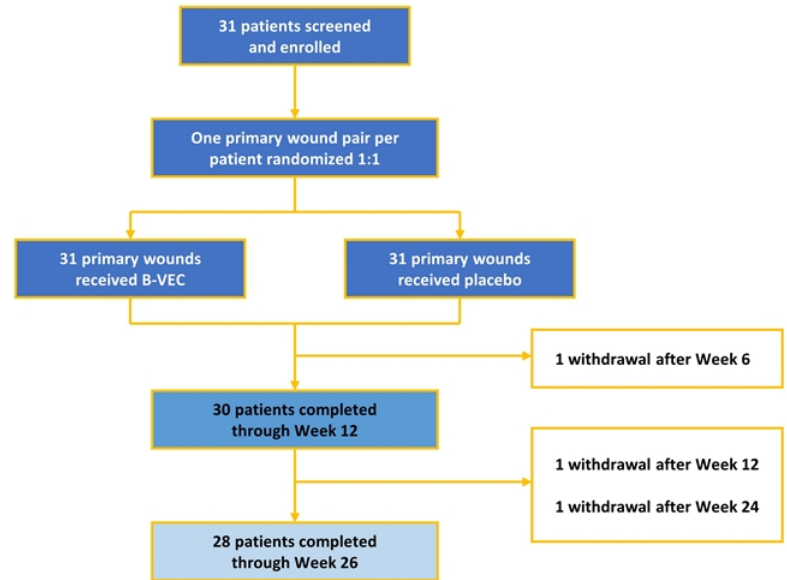


*Complete wound healing defined as 100% wound closure from exact wound area at baseline, specified as skin re-epithelialization without drainage

B-VEC, beremagene geperpavec; DEB, dystrophic epidermolysis bullosa

Patient Disposition

- 31 patients were randomized and made up the intent-to-treat (ITT) population used for all primary and secondary efficacy analyses
- The safety population was the same as the ITT population and used for all safety analyses
- Three patients withdrew from the study for nondrug-related reasons



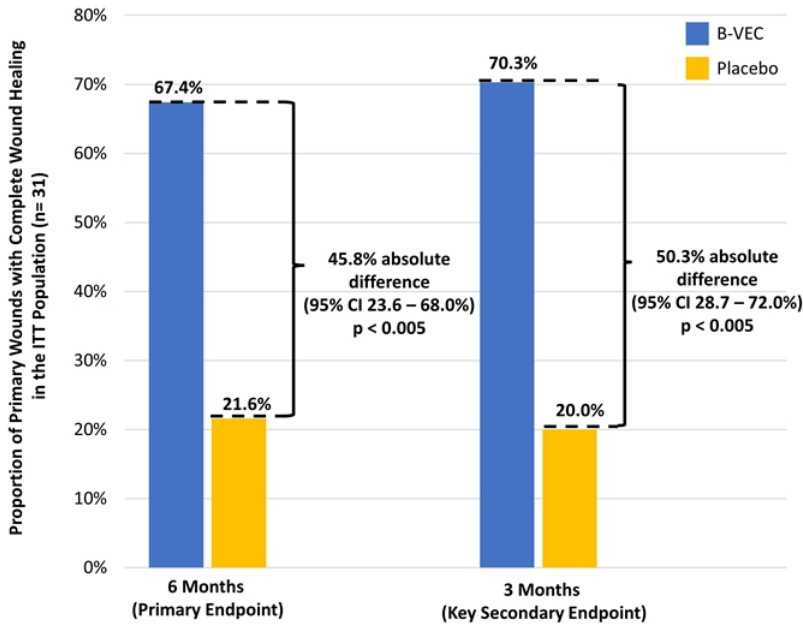
Baseline Demographics and Clinical Characteristics

	Total patients (n=31)
Age, years	
Mean (SD)	17.2 (10.7)
Range	1 – 44
Age category, n (%)	
≤12 years	10 (32.3)
>12 and ≤18 years	9 (29.0)
>18 years	12 (38.7)
Sex, n (%)	
Male	20 (64.5)
Female	11 (35.5)
Race, n (%)	
White	20 (64.5)
Asian	6 (19.4)
American Indian or Alaska Native	5 (16.1)

	Total patients (n=31)	
Genotype, n (%)		
DDEB	1 (3.2)	
RDEB	30 (96.8)	
Primary wound		
	B-VEC (n=31)	Placebo (n=31)
Wound area/size, cm²		
Mean (SD)	14.4 (12.7)	15.6 (12.1)
Range	2.3 – 57.3	2.3 – 51.5
Wound area/size category*, n (%)		
<20 cm ²	23 (74.2)	22 (71.0)
20 - <40 cm ²	6 (19.4)	8 (25.8)
40 – 60 cm ²	2 (6.5)	1 (3.2)

*In a small number of patients, the pre-defined threshold values for wound area/size category fell in between the size of the two wounds
B-VEC, beremagene geperpavec; DDEB, dominant dystrophic epidermolysis bullosa; RDEB, recessive dystrophic epidermolysis bullosa; SD, standard deviation

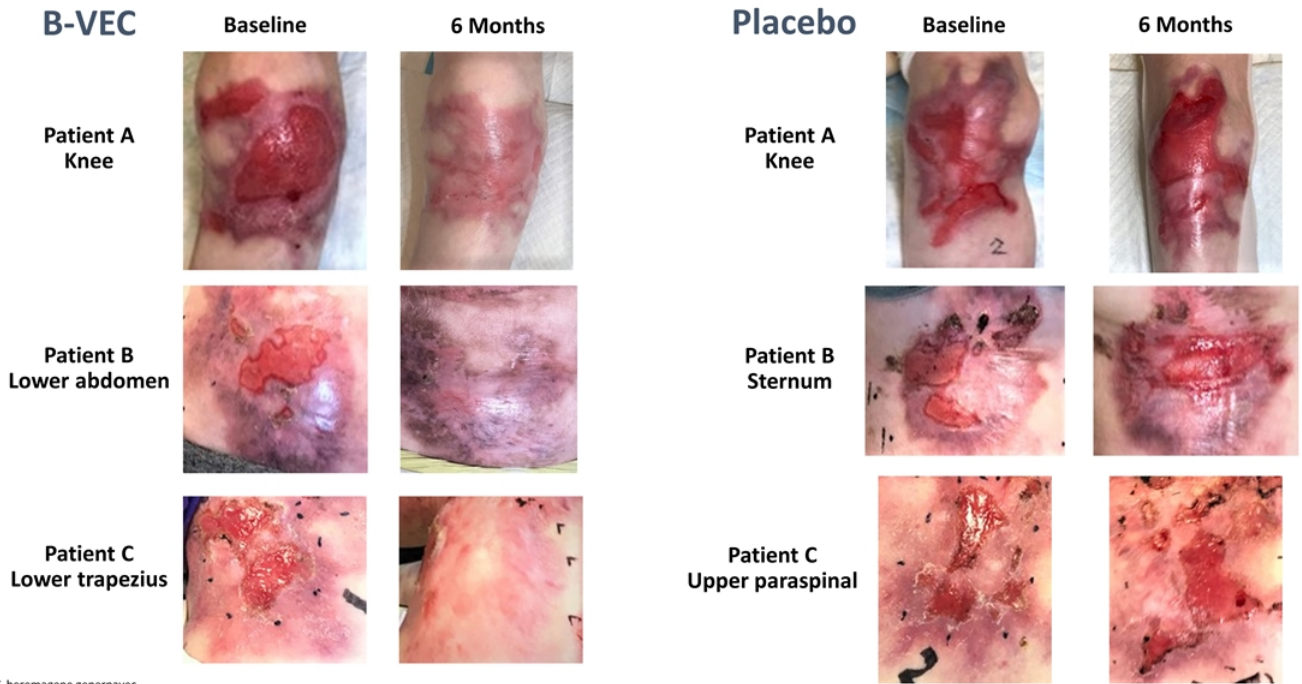
Significantly Greater Complete Wound Healing with B-VEC Treatment



- The proportion of primary wounds with complete wound healing was significantly greater with B-VEC than placebo at both 3- and 6-month timepoints ($p < 0.005$)
- In the patient with DDEB, primary endpoint of complete wound healing at 6 months was achieved by the B-VEC treated wound, but not by the placebo treated wound
- At 6 months, 15 of 17 discordant pairs showed response to B-VEC but not placebo
 - Discordant pair defined as when one wound meets complete wound healing responder definition and other does not

Data as of database lock on 19Nov2021; data in figure based on ITT population (imputed); p-values and CIs are based on exact McNemar's test
B-VEC, beremagene geperpavec; CI, confidence interval; DDEB, dominant dystrophic epidermolysis bullosa; ITT, intent-to-treat

Primary Wound Pairs (15 – 30 cm²) at Baseline and 6 Months



B-VEC, beremagene geperpavec

Treatment with B-VEC Demonstrated Durability of Response

- 49.7% of B-VEC treated wounds compared to 7.1% of placebo treated wounds demonstrated durability of response, defined as wounds that met complete wound healing at both 3 months (key secondary endpoint) and 6 months (primary endpoint)
- Nearly half of all B-VEC treated wounds demonstrated complete wound healing for three consecutive visits

	Responder, n (%)		Absolute Difference, % (95% CI)
	B-VEC (n=31)	Placebo (n=31)	
Durability of response†	15.4 (49.7)	2.2 (7.1)	42.6 (22.6, 62.6)
Complete wound healing			
Weeks 8, 10, and 12	14.8 (47.7)	5.1 (16.5)	31.3 (10.6, 51.9)
Weeks 22, 24, and 26	13.4 (43.2)	2.0 (6.5)	36.8 (19.8, 53.7)

†Durability of response was defined as meeting the responder definition for complete wound healing both at 3 months (Weeks 8 & 10 or Weeks 10 & 12) and at 6 months (Weeks 22 & 24 or Weeks 24 & 26)

Percentages are based on the number of subjects in the intent-to-treat (ITT) population; CIs are based on McNemar's test
Missing endpoint data were imputed assuming the data are missing at random and using multiple imputation methodology

- Of the total B-VEC wounds closed at 3 months, 66.7% (14/21) of B-VEC-treated wounds were also closed at 6 months, as compared to 33.3% (2/6) for placebo treated wounds (p=0.02)

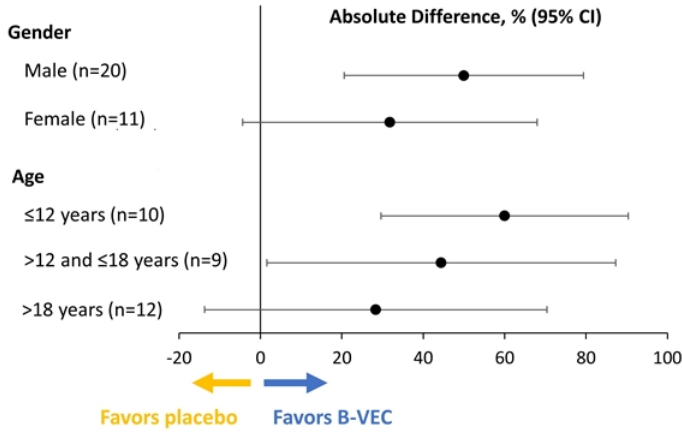
Data as of database lock on 19Nov2021
B-VEC, beremagene geperpavec; CI, confidence interval

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Consistent Evidence of a Treatment Response with B-VEC Across Subgroups

- Treatment response was in favor of B-VEC for all gender, age, and wound area/size subgroups, however the individual subgroups were not powered to demonstrate statistical significance

Complete Wound Healing at 6 Months by Gender and Age Subgroups



Complete Wound Healing at 6 Months by Baseline Primary Wound Area/Size Category

Baseline primary wound area/size category*	B-VEC		Placebo	
	N	Complete wound healing at 6 months, n (%)	N	Complete wound healing at 6 months, n (%)
<20 cm ²	23	14 (60.9)	22	5 (22.7)
20 - <40 cm ²	6	4 (66.7)	8	1 (12.5)
40 - 60 cm ²	2	1 (50.0)	1	0 (0)

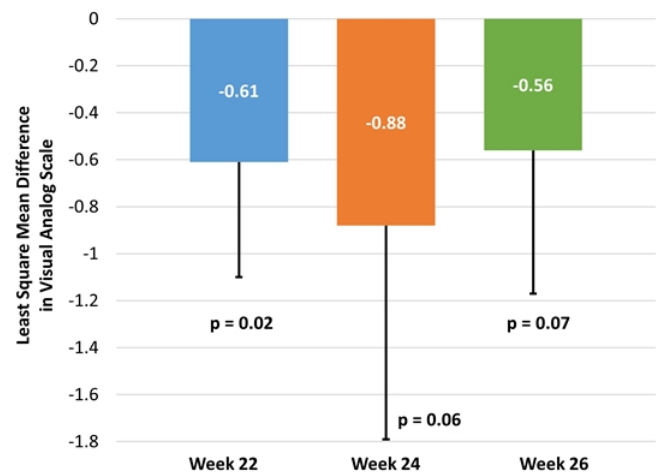
*In a small number of patients, the pre-defined threshold values for wound area/size category fell in between the size of the two wounds

Data as of database lock on 19Nov2021; data in figures based on ITT population (imputed); p-values and CIs are based on exact McNemar's test; gender and age subgroups were pre-specified B-VEC, beremagene geperpavec; CI, confidence interval; ITT, intent-to-treat

Pain and PRO Assessments Demonstrated Improvement Consistent with a Wound Healing Response

- Baseline VAS score of enrolled patients were approximately 2 to 3 on average
- A trend towards decreased pain in B-VEC treated versus placebo treated wounds was observed across Weeks 22, 24, and 26; improvement in pain was consistent with wound healing
- PRO measures (EQ-5D-5L and Skindex-29) assessed before and after treatment with B-VEC demonstrated improvement across multiple domains directionally, consistent with a wound healing response

Change from Baseline in Pain following B-VEC Treatment



Change from baseline in pain severity associated with wound dressing changes, as measured by Visual Analog Scale, at Weeks 22, 24, and 26 for the ITT population, ages 6 and above. Least square mean difference, 95% CI (shown as error bars), and p values were generated from analysis of covariance linear model with treatment and subject as the fixed effects and the baseline value as the covariate and change from baseline as the dependent variable.

B-VEC was Generally Well-Tolerated

- The majority of AEs were mild; there were no AEs leading to treatment discontinuation or death
- One AE, mild erythema, was considered possibly related to study drug as assessed by the investigator
- Three patients experienced a total of 5 SAEs during the study: cellulitis, anemia (2 events), diarrhea, and positive blood culture
 - None were considered related to study drug
- No clinically significant immunologic reactions were reported during the study
- Treatment response to B-VEC was not associated with HSV-1 serostatus at baseline or with COL7 seroconversion

	Total Patients (n=31)
Total number of adverse events (AEs)	45
Patients with ≥ 1 AE, n (%)	18 (58.1)
Serious AEs	3 (9.7)
Severe AEs	2 (6.5)
Drug-related AEs	1 (3.2)
AE leading to treatment discontinuation	0 (0)
Death	0 (0)

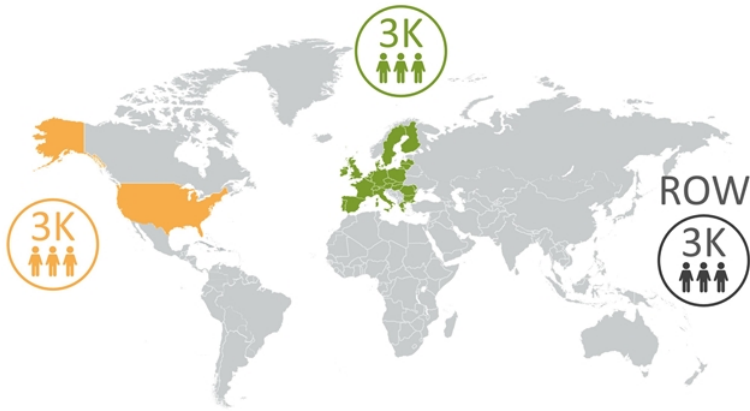
Andy Orth

Chief Commercial Officer



Dystrophic EB Patient Population and B-VEC Opportunity

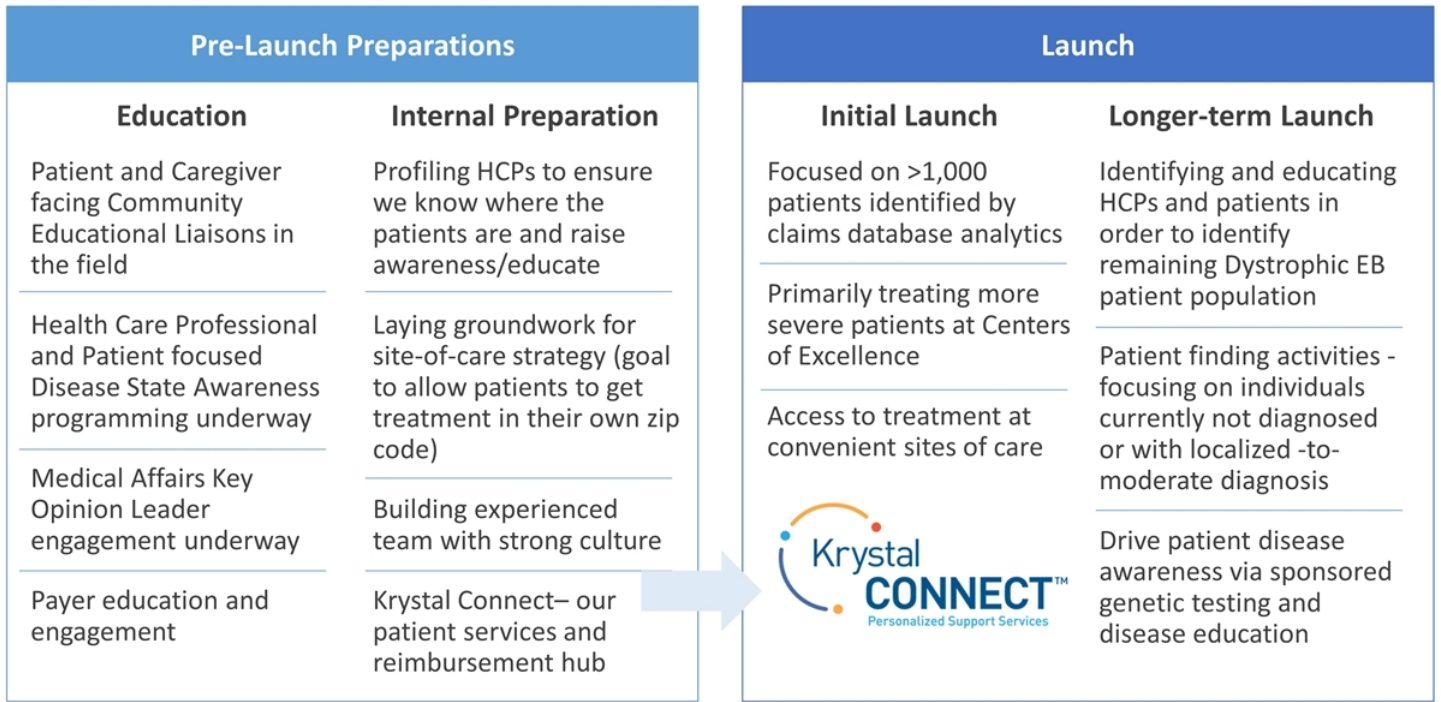
~9,000 patients across global reimbursable markets



Dystrophic EB represents a >\$500M Global Market

- Genetic prevalence suggests ~3,000 patients in the US
 - Initial claims data mining points to >1,000 known patients diagnosed with DEB in the US and >2500 patients worldwide
- Payer mix expected to be ~80% commercially insured in the US
- Palliative care alone costs the healthcare system \$200,000-\$400,000 today
- B-VEC vial pricing to be informed by significant variability in patient level vial consumption; driven by disease severity and duration of treatment
- Patient costs (vial consumption) to the payer expected to decrease over time until they reach steady state. Proactively partnering with US payers for budget predictability

Preparing for U.S. Launch



Launched Decode DEB™ in October 2021 – Getting the Right Diagnosis

No-charge genetic testing program available to eligible U.S. residents who are suspected of having EB and have not yet been genetically confirmed

Comprehensive testing panel to identify Dystrophic EB or conditions with similar phenotypes, including other EB types and some non-EB genetic blistering conditions

Excellent EB community response to date

GeneDx Patients & Families Providers Collaborators Tests Why GeneDx Company

Krystal Decode DEB™

An accurate dystrophic epidermolysis bullosa (DEB) diagnosis is important for enabling optimal care®

KRYSTAL BIOTECH, INC. IS OFFERING NO-CHARGE GENETIC TESTING TO ELIGIBLE PATIENTS THROUGH THE KRYSTAL DECODE DEB™ SPONSORED TESTING PROGRAM

The Krystal Decode DEB program utilizes a comprehensive testing panel to identify DEB or conditions with similar phenotypes to DEB, including other EB types and some non-EB genetic blistering conditions, to aid in the diagnosis.


ABOUT DEB¹²⁻¹⁶

- Dystrophic epidermolysis bullosa (DEB), a form of epidermolysis bullosa (EB), is a serious genetic blistering disorder
- It's caused by mutations in the COL7A1 gene resulting in lack of functional type VII collagen protein. The outcome is fragile skin, mucosa, and epithelial linings resulting in blisters and wounds
- There are two forms of DEB, dominant DEB (DDEB) and recessive DEB (RDEB)

PANEL INFORMATION
REQUEST A COLLECTION KIT
PAPERLESS ORDERING
DOWNLOAD TRF

DEB Disease Awareness Update

DEBFacts Web Sites Launched early 2022



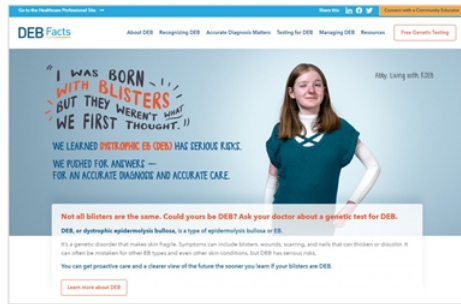
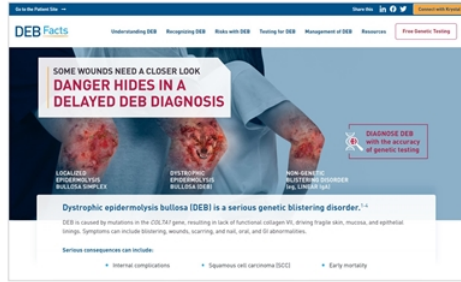
Importance of accurately diagnosing DEB Patients



DEB Caused by COL7 Dysfunction



Every Wound Matters/Has Consequences



>1,000 visits since launch.

Media investment and other websites traffic drivers launching early Q2

For internal use only

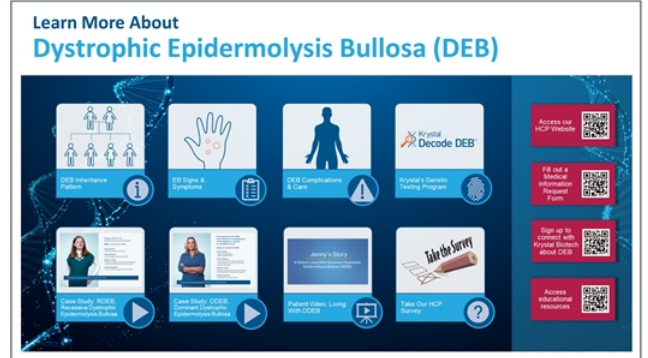
Proactive Education at American Academy of Dermatology

Medical affairs booth focused on disease state and Krystal Biotech awareness, highlighting:

- Patient journey cases
- Decode DEB genetic testing program
- Mechanism of disease and mechanism of action animations/videos
- Pipeline and clinical trial information

Engaging HCPs serving the dystrophic EB community

- Better understand practice dynamics, patient unmet needs, and dystrophic EB landscape
- Highlight Krystal scientific research



Significantly Expanding In-house Manufacturing Capacity and Expertise

Existing ANCORIS Facility



- ~10,000 sq ft GMP facility
- Process validation batches complete
- Designed to support B-VEC launch in U.S. and Europe+
- Comfortably within biologics gross margin range

New ASTRA Facility



- ~150,000 sq ft GMP facility
- Operational in 2022
- Introduces Automation
- Transition B-VEC commercial material to this facility eventually

Krish Krishnan

Chairman and CEO



Key Takeaways



B-VEC full Phase 3 data is compelling



Well-prepared to bring B-VEC to the DEB community



Robust upcoming catalysts for B-VEC and pipeline



Redosable gene delivery technology/platform has broad potential

Upcoming Milestones

Timing	Program	Event
2Q22	B-VEC for Dystrophic EB	Present more detailed GEM-3 safety results at SID (May 18-21)
2Q22	B-VEC for Dystrophic EB	File BLA with U.S. FDA
2Q22	KB407 for cystic fibrosis	Initiate Phase 1 clinical trial in Australia
2H22	B-VEC for Dystrophic EB	File MAA with EMA
2H22	KB407 for cystic fibrosis	File IND / Initiate clinical trial in U.S.
2022	KB105 for TGM1-ARCI	Initiate dosing in next Phase 1/2 cohort
2022	KB104 for Netherton	File IND and initiate clinical trial
4Q22	KB301 for aesthetic indications	Initiate one or more Phase 2 trials in aesthetic skin indications

Questions & Answers

