

Disclosures

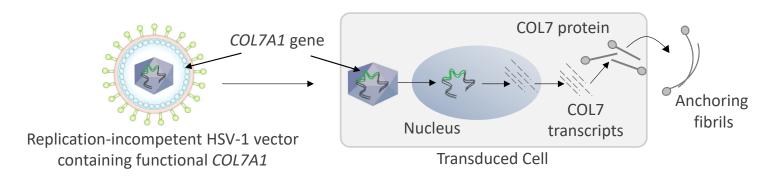
- AP has been an Investigator (funds to institution) for AbbVie, Arcutis, Dermavant, Eli Lilly, Incyte, Janssen, Krystal Biotech, and UCB; a consultant for BioCryst, Boehringer-Ingelheim, Bristol Myers Squibb, Dermavant, Johnson & Johnson, Krystal Biotech, LEO Pharma, Mitsubishi Tanabe Pharma, Novartis, Primus Pharmaceuticals, Procter and Gamble, Regeneron, Sanofi/Genzyme, TWI Biotechnology, and UCB; and on the data safety monitoring board for AbbVie, Abeona, Catawba, and Galderma.
- Krystal Biotech, Inc. funded the study: Long-term Treatment With B-VEC for Dystrophic Epidermolysis Bullosa NCT04917874

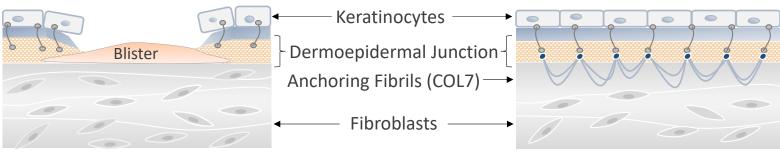
B-VEC: HSV-1-Based, Topical, Redosable Gene Therapy

Dystrophic Epidermolysis Bullosa (DEB)

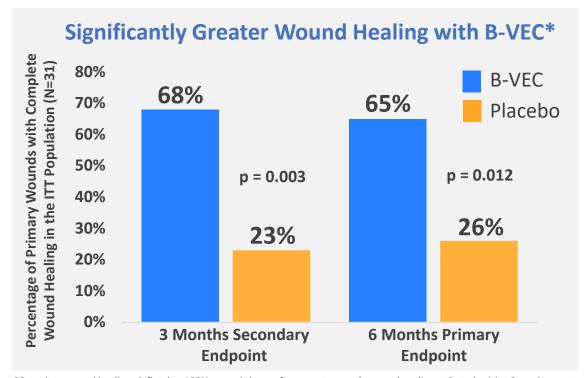
- Rare genetic blistering disease caused by variants in the COL7A1 gene, leading to skin fragility and wounds¹-³
- COL7A1 encodes COL7, which forms anchoring fibrils, responsible for epidermal-dermal adhesion

B-VEC Mechanism of Action: Molecular Correction





GEM-3 Pivotal Study: 26-Week, Double-Blind, Intrapatient Randomized, Placebo-Controlled Phase 3 Study of B-VEC in Patients with DEB



*Complete wound healing defined as 100% wound closure from exact wound area at baseline at 2 study visits, 2 weeks apart

Safety/Adverse Events (AEs)

- No AEs led to treatment discontinuation
- One AE, mild erythema (3.2%), was considered possibly related to study drug
- No SAEs related to study drug
- Despite seroconversion for COL7 antibodies there was no difference in treatment response¹

B-VEC was approved by the FDA in May 2023 and is indicated for the treatment of wounds in patients 6 months of age and older with DEB with mutation(s) in the *COL7A1* gene.

Open Label Extension (OLE) Study Design

Prospective, open-label, uncontrolled cohort study at 5 US sites

Study Population

- Genetic confirmation of DDEB/RDEB
 - Rollover From the Phase 3 study
 - Treatment-Naïve No previous B-VEC

Dosing

- Maximum weekly dose determined by age
 - <3 years old: 0.8 mL</p>
 - ≥3 years old: 1.6 mL

Treatment Duration

Up to 112 weeks

Key Objectives

- Collect safety and tolerability outcomes on B-VEC
- Provide continued access for Phase 3 study subjects
- Provide B-VEC to patients with DEB who had not participated in Phase 3 study

Exploratory Objectives

- Evaluate mean change in treatment satisfaction (TSQM-9) and quality-of-life (Skindex-29 and EQ-5D)
- Describe durability of closure for wounds previously treated with B-VEC in Phase 3

OLE study was initiated in May 2021 and terminated in July 2023 once subjects could be transitioned to commercially available product.

Study Demographics

- 47 subjects were enrolled
 - 24 rollover subjects
 - 23 naïve subjects
- Mean age ~16 years old
 - 2 naïve subjects were1 year old
 - 2 naïve subjects were Black
 - 45% Hispanic

	Rollover Subjects (N=24) n (%)	Naïve Subjects (N=23) n (%)	All Subjects (N=47) n (%)	
Age (years)				
Mean (SD)	16.7 (10.1)	16.3 (11.5)	16.5 (10.7)	
Range	2.0 – 35.0	0.5 – 45.9	0.5 – 45.9	
Sex, n (%)				
Male	18 (75.0)	12 (52.2)	30 (63.8)	
Female	6 (25.0)	11 (47.8)	17 (36.2)	
Race, n (%)				
White	17 (70.8)	15 (65.2)	32 (68.1)	
Black or African American	0	2 (8.7)	2 (4.3)	
Asian	2 (8.3)	2 (8.7)	4 (8.5)	
American Indian or Alaska Native	5 (20.8)	3 (13.0)	8 (17.0)	
Unknown	0	1 (4.3)	1 (2.1)	
Ethnicity, n (%)				
Hispanic or Latino	13 (54.2)	8 (34.8)	21 (44.7)	

DEB, dystrophic epidermolysis bullosa; SD, standard deviation

OLE Duration of Exposure and Adverse Events

Duration

- 5 subjects withdrew for reasons unrelated to treatment
- Mean duration of study treatment in the OLE:
 475 days
- 62% (29 of 47 subjects) had >1 year of exposure
- Longest duration ~2.2 years

Adverse Events

	Rollover Subjects (N = 24)		Naive Subjects (N = 23)		All Subjects (N =47)	
Subjects with at least 1	n (%)	Events	n (%)	Events	n (%)	Events
Any AE	17 (70.8)	102	18 (78.3)	72	35 (74.5)	174
Drug-related AE	0	0	1 (4.3)	2	1 (2.1)	2
Severe AE	8 (33.3)	12	2 (8.7)	2	10 (21.3)	14
Serious AE	9 (37.5)	11	5 (21.7)	6	14 (29.8)	17

- Two AEs (wound hemorrhage) in 1 patient: possibly related to treatment
- No drug-related AEs
- No deaths or discontinuations due to AE
- No SAE was considered related to treatment
- AE types resembled those observed in Phase 3 and consistent with those expected in patients with DEB

Durable Closure of Wounds Treated in Phase 3 Study

- Sufficient data on 19 of 24 rollover subjects to serially assess closure
- Closure rates were 61.1%
 to 89.5% in the OLE study
- Comparable to rates observed at Months 3 and 6 in the Phase 3 study.

Visit	Percentage of subjects with wound closure (proportion) [†]
Month 3 (Phase 3)	68.4 (13/19)
Month 6 (Phase 3)	73.7 (14/19)
Baseline OLE	89.5 (17/19)
3 Months	84.2 (16/19)
6 Months	61.1 (11/18)
9 Months	82.4 (14/17)
12 Months	62.5 (10/16)

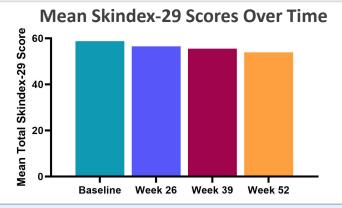
[†]The proportion of subjects with wound closure was defined as those with complete wound closure based on comparison to the exact wound area selected at baseline at initiation of the Phase 3 study.

Examples of Wound Healing from Baseline of Phase 3 to End of OLE

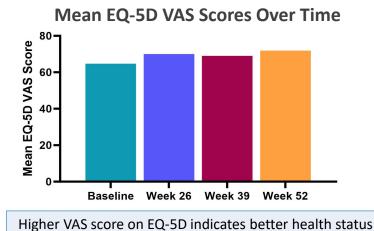


Patient-Reported Outcomes

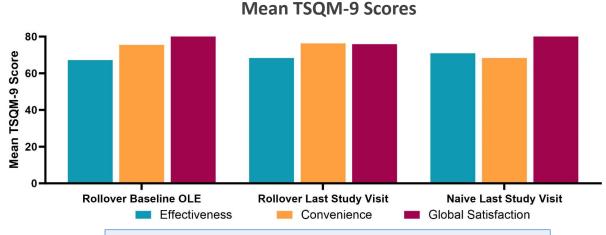
Quality-of-life (QoL) and treatment satisfaction preserved with continued treatment



Lower score on Skindex-29 indicates less impairment



- QoL assessed among subjects ≥12 years old at baseline (n=28), Week 26 (n=21), Week 39 (n=22), and Week 52 (n=18)
- TSQM-9 measured at baseline and last study visit for rollover subjects (n=24) and last study visit for naïve subjects (n=23)



Higher score on TSQM-9 indicates higher treatment satisfaction

Conclusions

- The OLE study provides additional safety data in a broader population with longer duration of exposure.
- The majority of the AEs reported were mild or moderate in severity.
- AEs reported were similar to those observed in the Phase 3 study.
- No new safety signals were identified during the OLE.
- Patient-reported outcomes show high treatment satisfaction and trend toward improved quality of life.
- Wounds from Phase 3 show high durability of closure with continued treatment.



Beginning of OLE



End of OLE

Thank you to the patients, families, investigators, and study staff for their participation in the OLE study