

S042 - Late-Breaking Research: Session 2

A Randomized, Double-blind, Vehicle-controlled, Sample Size Adaptive Design Study To Evaluate The Safety And Efficacy Of Topically Applied EB01 Cream In Adult Subjects With Moderate To Severe Chronic Allergic Contact Dermatitis

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DISCLOSURE OF RELATIONSHIPS WITH INDUSTRY

Blair Gordon, PhD;

S042 - Late-Breaking Research: Session 2

"A Randomized, Double-blind, Vehicle-controlled, Sample Size Adaptive Design Study to Evaluate the Safety and Efficacy of Topically Applied EB01 Cream in Adult Subjects with Moderate to Severe Chronic Allergic Contact Dermatitis"

DISCLOSURES

Edesa Biotech, Employee, Salary and Stock Options

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Background: Disease and Current treatment

Allergic Contact Dermatitis (ACD)

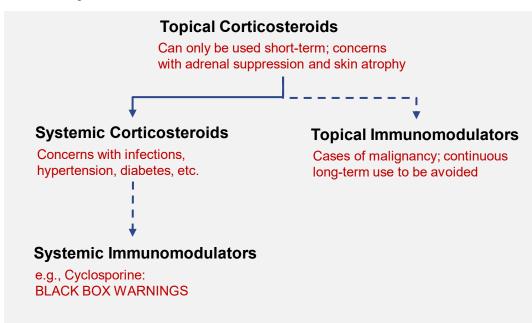
- A type IV hypersensitivity reaction, induced upon contact with an allergen
- Causative allergen can be difficult to identify, and many patients are unable to fully avoid contact leading to Chronic ACD

Current Treatment

- No approved treatments for ACD with patients relying on non-specific corticosteroids and immunomodulators
- Limitations of treatments: safety concerns, low efficacy leading to short-term benefits for a chronic disease

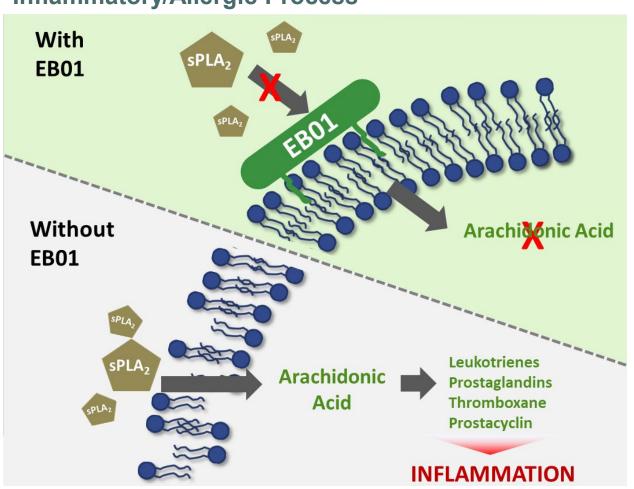


Current Limited Treatment Approaches for ACD Safety Issues Often Result in Discontinuation of Treatment



EB01: A Secreted Phospholipase A₂ Inhibitor

Inflammatory/Allergic Process



- EB01 is composed of a secreted phospholipase A₂ (sPLA2) inhibitor, conjugated to a Glycosaminoglycan molecule
- PEB01 inhibits the inflammatory/allergic process at its inception
 - Upstream of NSAIDs
 - Non-steroidal
- Positive efficacy and safety data from two exploratory clinical studies¹

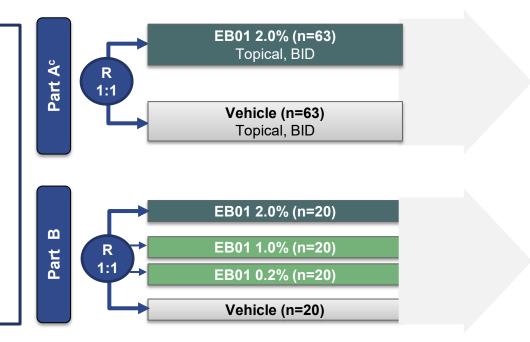
Phase 2B Study: EB01 Versus Vehicle in Patients with Chronic Moderate to Severe ACD

Phase 2b Design: Multi-center, randomized, double-blind, vehicle-controlled, dose-ranging study

Chronic moderate to severe ACD^a 12 sites

Key Eligibility:

- Age ≥ 18 y
- 0.5-10% of total BSA
- CDSI ≥ 7, ISGA ≥ 3
- Positive patch test to suspected allergen
- No concomitant treatment and with adequate wash-out of previous therapy^b



EB01 2.0% (n=83)

EB01 1.0% (n=20)

EB01 0.2% (n=20)

Vehicle (n=83)

Primary Endpoints

 Mean % change in CDSI score at Day 29

Key Secondary Endpoint

 IGSA 0/1 and 2-point change at Day 29

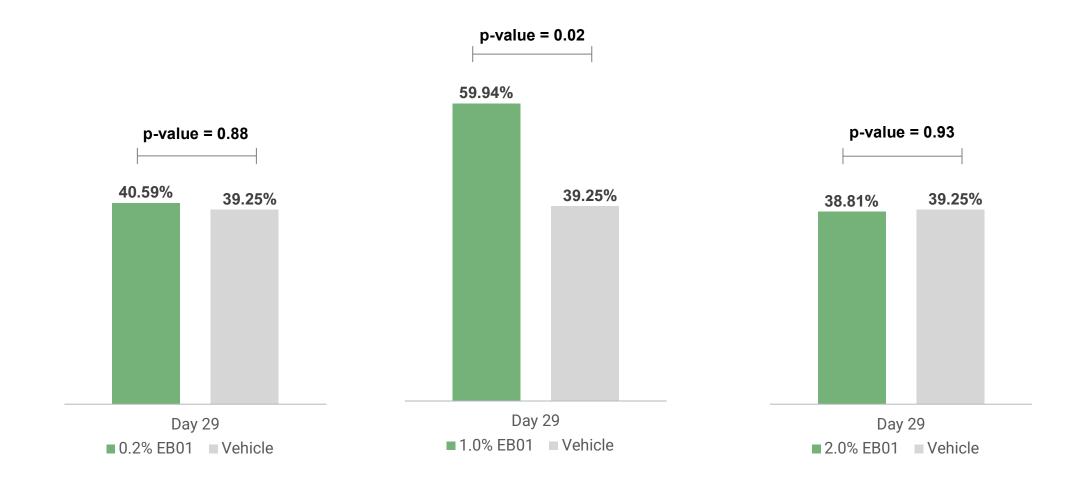
a Moderate to severe chronic allergic contact dermatitis at Day 1, defined by either one of the following: CDSI score ≥ 7,CDSI score ≥ 7,CDS

Baseline Patient and Disease Characteristics

		EB01 0.2%	EB01 1.0%	EB01 2.0%	Vehicle	
Randomized (n)		19	19	81	84	
Age (y)	Mean	51.1	49.5	46.4	46.2	
	Range	23 - 72	18 -70	19 - 83	18 - 80	
Sex (%)	Male	21.1%	36.8%	35.8%	28.6%	
	Female	78.9%	63.2%	64.2%	71.4%	
Race (%)	Black or African American	26.3%	26.3%	8.6%	7.1%	
	American Indian or Alaska Native	0.0%	0.0%	0.0%	0.0%	
	Native Hawaiian or other Pacific Islander	0.0%	0.0%	1.2%	0.0%	
	Asian	0.0%	0.0%	8.6%	8.3%	
	White	73.7%	73.7%	81.5%	82.1%	
	Other	0.0%	0.0%	0.0%	2.4%	
Baseline CDSI Score	Mean	10.0	9.3	10.0	10.1	
	SD	1.5	2.3	1.8	2.1	
Baseline ISGA (%)	Moderate (3)	100.0%	89.5%	85.2%	81.0%	
	Severe (4)	0.0%	10.5%	14.8%	19.0%	
Baseline BSA (%)	Mean	3.7	3.0	3.7	3.4	
Eddeline Bert (70)	SD	2.7	2.2	2.7	2.3	

Primary Endpoint

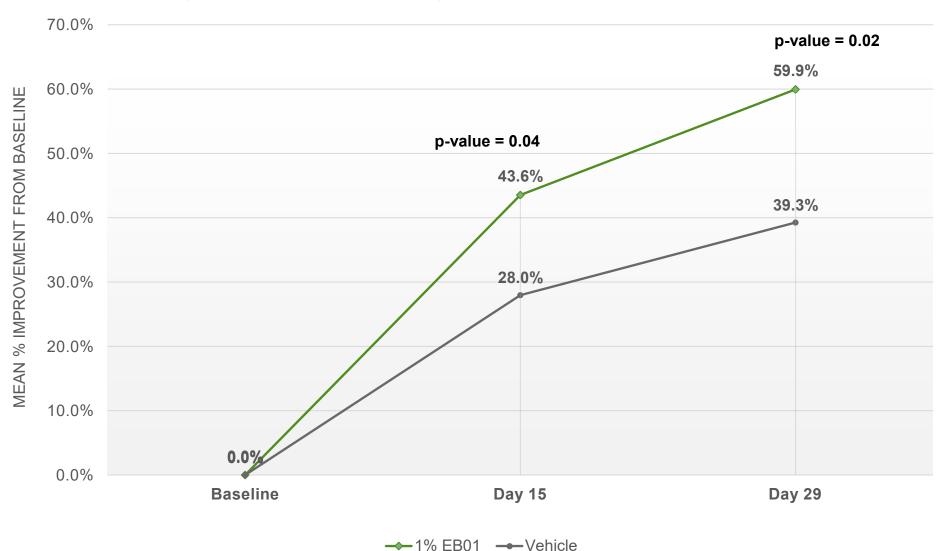
Mean % improvement from baseline of the CDSI at Day 29



Onset of Action

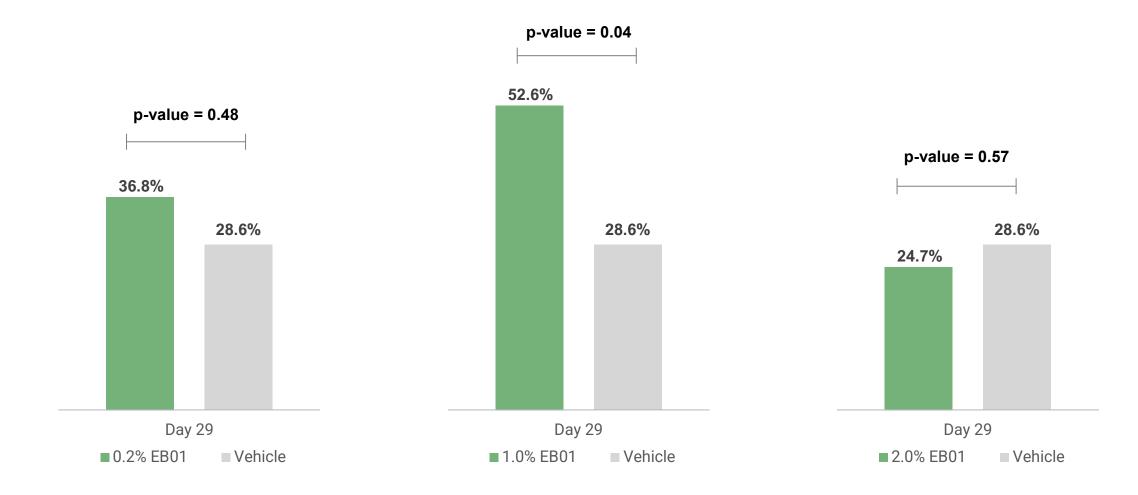
Mean % improvement from baseline of the CDSI over time for EB01 1.0%

CDSI Score, (% improvement from Baseline)



Secondary Endpoint

% of patients achieving success on the ISGA* at Day 29



^{*}IGSA 0/1 and 2-point change at Day 29

Safety

Summary of Incidence of Treatment Emergent Adverse Events

	Treatment Group										
	Placebo/Vehicle (n=84)		EB01 2.0% Cream (n=81)		EB01 1.0%	EB01 1.0% Cream		EB01 0.2% Cream			
					(n=19)		(n=19)				
	Number of	Subjects	Number of	Subjects	Number	Subjects	Number	Subjects			
Parameter	Events	(%)	<u>Events</u>	(%)	of Events	(%)	of Events	(%)			
Overall	35	21(25%)	53	30(37%)	0	0(0%)	1	1(5%)			
Severity, n (%)											
Mild	23	15(18%)	35	21(26%)	0	0(0%)	1	1(5%)			
Moderate	7	6(7%)	15	5(19%)	0	0(0%)	0	0(0%)			
Severe	5	2(2%)	3	3(4%)	0	0(0%)	0	0(0%)			
Seriousness, n (%)											
No	34	21(25%)	53	30(37%)	0	0(0%)	1	1(5%)			
Yes	1	1(1%)	0	0(0%)	0	0(0%)	0	0(0%)			

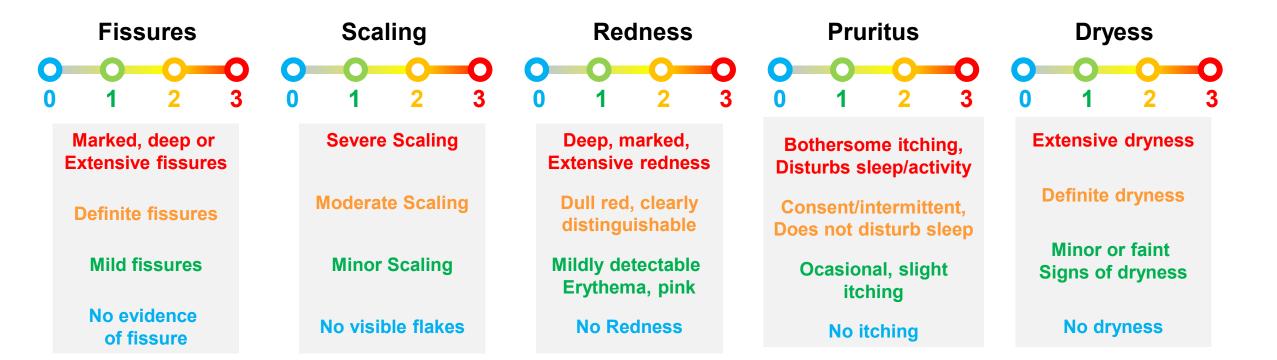
Conclusions

- The study identified the EB01 1.0% cream as the lowest efficacious dose.
- The EB01 1.0% cream demonstrated a meaningful clinical benefit over Vehicle:
 - 60% average improvement in symptoms from baseline on the CDSI versus 39% for the vehicletreated patients
 - 53% of the patients achieved a ISGA 0/1 and 2-point improvement versus 29% for the vehicle
- Favorable safety profile was observed in the EB01 1.0% cream
 - No adverse events were reported for the 1.0% cream
- If these results are confirmed in Phase 3 studies, EB01 may offer Chronic ACD patients a targeted, novel treatment option

Acknowledgements

- The patients, families and caregivers
- The entire Phase 2b EB01 study team of investigators (Dr. Belsito, Dr. Christofer N. Buatti, Dr. Vincette Chavarria, Dr. Alison Ehrlich, Dr. Joseph Fowler, Dr. Jorge Garcia-Zuazaga, Dr. Rola Gharib-Rucker, Dr. Scott Guenthner, Dr. Nicole Mathis Harrell, Dr. Bruce Katz, Dr. Kenneth Kim, Dr. Steve Kempers, Dr. Alda Lugo-Somolinos, Dr. Charles Lynde, Dr. Danielle Manolakos, and Dr. Matthew Zirwas) coordinators, and healthcare staff at each study site

CDSI Scale



CDSI COMPOSITE SCORE



ISGA Scale

