Efficacy and Safety of Fixed-Dose Clindamycin Phosphate 1.2%/Adapalene 0.15%/Benzoyl Peroxide 3.1% Gel in Caucasian Participants With Moderate to Severe Acne

Glynis Ablon, MD¹; Hilary Baldwin, MD^{2,3}; Valerie D. Callender, MD^{4,5}; Zoe D. Draelos, MD⁶; Michael Gold, MD⁷; Ted Lain, MD, MBA⁸; Leon H. Kircik, MD⁹⁻¹¹; Emil A. Tanghetti, MD¹²; Karol Wroblewski, PharmD¹³; Eric Guenin, PharmD, PhD, MPH¹⁴

¹Ablon Skin Institute & Research Center, Manhattan Beach, CA; ²The Acne Treatment and Research Center, Brooklyn, NY; ³Robert Wood Johnson University College of Medicine, Washington, DC; ⁶Dermatology Consulting Services, PLLC, High Point, NC; ⁷Tennessee Clinical Research Center, Nashville, TN; ⁸Austin Institute for Clinical Research, Austin, TX; ⁹Icahn School of Medicine at Mount Sinai, New York, NY; ¹⁰Indiana University School of Medicine, Indianapolis, IN; ¹¹Physicians Skin Care, PLLC, Louisville, KY; ¹²Center for Dermatology and Laser Surgery, Sacramento, CA; ¹³Rutgers University, New Brunswick, NJ; ¹⁴Ortho Dermatologics,* Bridgewater, NJ *Ortho Dermatologics is a division of Bausch Health US, LLC

SYNOPSIS

- Triple-combination therapies for acne including an antibiotic, topical or oral retinoid, and benzoyl peroxide (BPO) are more effective than dual combinations or topical monotherapy¹
- In clinical studies of participants with moderate to severe acne, clindamycin phosphate (CLIN) 1.2%/ adapalene (ADAP) 0.15%/BPO 3.1% (CAB) gel demonstrated superior efficacy to vehicle and component dyads, with good safety and tolerability²⁻⁴
- As acne pathogenesis and presentation can vary by skin type and ethnicity, it is important to assess treatment outcomes for specific populations⁵

OBJECTIVE

To assess efficacy and safety of CAB gel (Cabtreo[®], Ortho Dermatologics) vs vehicle, 3 component dyads, and branded ADAP 0.3%/BPO 2.5% gel (Epiduo® Forte, Galderma) in Caucasian clinical trial participants

METHODS

- Data were pooled from two phase 2 (NCT03170388, NCT04892706) and two phase 3 (NCT04214639, NCT04214652) double-blind, 12-week studies of participants with moderate to severe acne
- Eligible participants aged \geq 9 years (\geq 12 years in NCT04892706) with moderate to severe acne were randomized to once-daily treatment with CAB or vehicle gel
- One phase 2 study (NCT03170388) included 3 treatment arms with component dyad gels: ADAP/BPO, CLIN/BPO, and CLIN/ADAP formulated at the same concentrations and in the same vehicle as CAB gel
- The other phase 2 study (NCT04892706) was a head-to-head comparison between CAB and branded ADAP 0.3%/BPO 2.5% gel
- Endpoints included treatment success (percentage of participants achieving ≥2-grade reduction from baseline in Evaluator's Global Severity Score and a score of 0 [clear] or 1 [almost clear]) and reductions from baseline in inflammatory and noninflammatory lesions
- Safety assessments included treatment-emergent adverse events (TEAEs) and cutaneous safety/tolerability

RESULTS

Participants

- Of 1787 participants in the pooled study populations, 1283 self-identified as White (Caucasian; Table 1)
- Demographic and baseline disease characteristics were similar across most treatment groups; however, in the ADAP 0.15%/BPO 3.1% dyad group, a lower percentage of participants were female, and a higher percentage had severe acne at baseline

Efficacy

- At week 12, over half of CAB-treated Caucasian participants achieved treatment success, significantly greater than with any dyad combination (range, 31.7–34.3%) or vehicle (17.9%; P<0.01, all; Figure 1)
- CAB gel yielded >70% reductions in inflammatory and noninflammatory lesions, significantly greater than with any dyad combination or vehicle (P<0.05, all; Figure 2A and 2B)
- For both inflammatory and noninflammatory lesions, reductions from baseline were significantly greater with CAB gel than with branded ADAP 0.3%/BPO 2.5% as early as week 2

Safety and Tolerability

- Across treatment groups, most TEAEs were of mild to moderate severity, and discontinuations due to adverse events were low (Table 2)
- Rates of treatment-related TEAEs were similar for CAB and both ADAP/BPO gel combinations
- The most common treatment-related TEAEs were application site reactions typical of topical acne treatments
- Across treatment groups, mean cutaneous safety/tolerability scores at all post-baseline visits were <1 (mild;</p> Figure 3)
- Transient increases in scaling, burning, and stinging began at week 2 but resolved back to or near baseline by week 8
- For CAB-treated participants, rates and severity of cutaneous safety/tolerability signs were similar to the overall study populations²⁻⁴

TABLE 1. Participant Demographics and Baseline Characteristics of Caucasian Participants (ITT Population, Pooled)

	CAB Gel (n=446)	Branded ADAP/BPO Gel (n=165)	ADAP/BPO Gel (n=109)	CLIN/BPO Gel (n=101)	CLIN/ADAP Gel (n=109)	Vehicle Gel (n=353)
Age, mean (SD), y	19.4 (7.0)	19.7 (6.8)	17.8 (6.2)	18.0 (4.9)	19.3 (6.7)	18.8 (6.2)
Age, median (range), y	17.0 (10–56)	17.0 (12–51)	16.0 (12–60)	16.0 (11–34)	17.0 (11–50)	17.0 (11–48)
Sex, female, n (%)	265 (59.4)	95 (57.6)	53 (48.6)	58 (57.4)	64 (58.7)	192 (54.4)
Ethnicity, Hispanic/Latino, n (%)	115 (25.8)	48 (29.1)	24 (22.0)	26 (25.7)	22 (20.2)	91 (25.8)
Inflammatory lesion count, mean (SD)	38.6 (10.6)	38.5 (9.9)	40.8 (11.2)	39.8 (12.4)	38.5 (8.0)	39.1 (10.9)
Noninflammatory lesion count, mean (SD)	52.1 (20.5)	51.0 (19.6)	48.5 (15.6)	49.8 (19.1)	52.1 (19.1)	51.2 (19.8)
Evaluator's Global Severity Score	, n (%)					
3 – Moderate	395 (88.6)	145 (87.9)	82 (75.2)	85 (84.2)	93 (85.3)	314 (89.0)
4 – Severe	51 (11.4)	20 (12.1)	27 (24.8)	16 (15.8)	16 (14.7)	39 (11.0)

SD, standard deviatio

FIGURE 1. Treatment Success^a at Week 12 in Caucasian Participants (ITT Population, Pooled)



Values have been adjusted for multiple imputation

and a spercentage of participants achieving 2-grade reduction from baseline in Evaluator's Global Severity Score and a score of 0 (clear) or 1 (almost clear). ADAP, adapalene; BPO, benzoyl peroxide; CAB, clindamycin phosphate 1.2%/benzoyl peroxide 3.1%/adapalene 0.15%; CLIN, clindamycin phosphate; ITT, intent to treat.

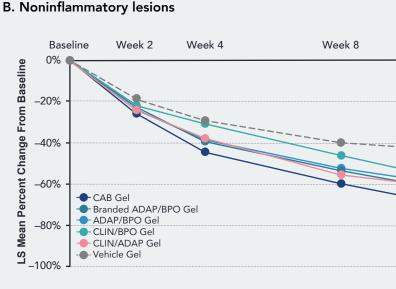
TABLE 2. Summary of Adverse Events Through Week 12 in Caucasian Participants (Safety Population, Pooled)

Participants, n (%)	CAB Gel (n=442)	Branded ADAP/BPO Gel (n=165)	ADAP/BPO Gel (n=105)	CLIN/BPO Gel (n=101)	CLIN/ADAP Gel (n=107)	Vehicle Gel (n=353)	
TEAEs	162 (36.7)	62 (37.6)	36 (34.3)	19 (18.8)	34 (31.8)	54 (15.4)	
Related	94 (21.3)	36 (21.8)	24 (22.9)	3 (3.0)	15 (14.0)	8 (2.3)	
Serious AEs	1 (0.2)	0	0	0	2 (1.9)	0	
Discontinued drug or study due to AE	16 (3.6)	7 (4.2)	6 (5.7)	0	3 (2.8)	2 (0.6)	
Most common treatment-related TEAEs (>3% of participants in any treatment arm)							
AS pain	52 (11.8)	13 (7.9)	13 (12.4)	1 (1.0)	4 (3.7)	2 (0.6)	
AS dryness	20 (4.5)	9 (5.5)	7 (6.7)	2 (2.0)	7 (6.5)	2 (0.6)	
AS dermatitis	7 (1.6)	6 (3.6)	2 (1.9)	0	2 (1.9)	0	
AS erythema	7 (1.6)	3 (1.8)	1 (1.0)	1 (1.0)	5 (4.7)	0	
ADAP, adapalene; AE, adverse event CLIN, clindamycin phosphate; TEAE,			CAB, clindamycin pho	osphate 1.2%/benzoyl p	eroxide 3.1%/adapale	ne 0.15%;	

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FIGURE 2. Acne Lesion Reductions Through Week 12 (ITT Population, Pooled) A. Inflammatory lesions Week 2 Week 4 Week 8 Week 12 **Baseline** -20% -40% -60% --- CAB Gel -80% CLIN/BPO Gel - CLIN/ADAP Gel **S** -100% ----- Vehicle Gel

	CAB Gel (n=446)	Branded ADAP/BPO Gel (n=165)	ADAP/BPO Gel (n=109)	CLIN/BPO Gel (n=101)	CLIN/ADAP Gel (n=109)	Vehicle Gel (n=353)
Week 2	-36.1%***	-30.0%* #	-29.3%#	-35.0%***	-33.1%**	-24.3%
Week 4	-53.7%***	-46.3%* ##	-43.9%##	-46.3%*#	-46.3%#	-39.0%
Week 8	-65.5%***	-62.2%***	-60.5%***#	-58.6%***	-61.0%***#	-47.7%
Week 12	-76.8%***	-72.6%***#	-70.0%***#	-62.7%***###	-70.2%***##	-52.3%

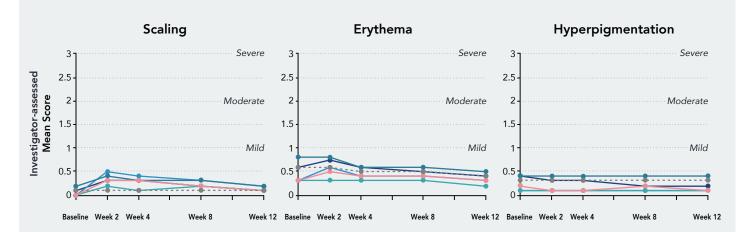


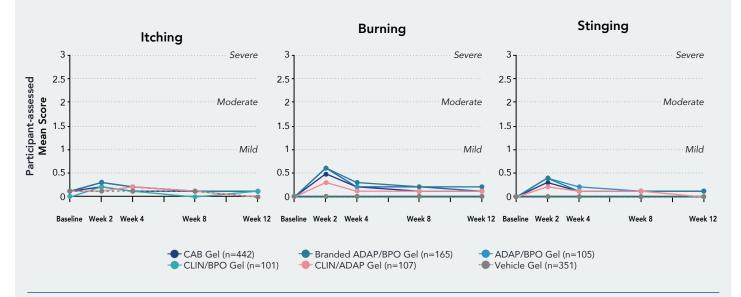
	CAB Gel (n=446)	Branded ADAP/BPO Gel (n=165)	ADAP/BPO Gel (n=109)	CLIN/BPO Gel (n=101)	CLIN/ADAP Gel (n=109)	Vehicle Gel (n=353)
Week 2	-26.1%***	-22.2%#	-24.8%*	-22.3%	-24.3%	-18.7%
Week 4	-44.9%***	-39.8%**#	-38.5%* #	-31.1%###	-37.7%**	-29.3%
Week 8	-59.7%***	-53.6%***#	-52.8%*** #	-46.0%###	-55.6%***	-40.1%
Week 12	-73.0%***	-65.7%*** ##	-62.5%***##	-60.9%*** ###	-63.4%*** ##	-44.8%

*P<0.05, **P<0.01, ***P≤0.001 vs vehicle: #P<0.05, ##P<0.01, ###P<0.001 vs CAB ael.

ADAP, adapalene; BPO, benzoyl peroxide; CAB, clindamycin phosphate 1.2%/benzoyl peroxide 3.1%/adapalene 0.15%; CLIN, clindamycin phosphate; ITT, intent to treat; LS, least squares.

FIGURE 3. Cutaneous Safety and Tolerability in Caucasian Participants (Safety Population, Pooled)





ADAP, adapalene; BPO, benzoyl peroxide; CAB, clindamycin phosphate 1.2%/benzoyl peroxide 3.1%/adapalene 0.15%; CLIN, clindamycin phosphate.

CONCLUSIONS

- In Caucasian participants with moderate to severe acne, fixed-dose, triple-combination CAB gel demonstrated greater efficacy than dyad combination gels, branded ADAP 0.3%/BPO 2.5% gel, or vehicle
- CAB-treated participants experienced >70% reductions in inflammatory and noninflammatory lesions, and over half achieved treatment success
- Despite the addition of a third active ingredient in CAB gel, rates of treatment-related TEAEs and cutaneous safety/tolerability findings were similar to branded ADAP 0.3%/BPO 2.5% gel
- These results demonstrate the efficacy, safety, and tolerability of CAB gel for the treatment of acne in Caucasian patients

REFERENCES

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AUTHOR DISCLOSURES

Glynis Ablon has served as a consultant and advisor d member for Galderma, Sinclair, Thermi-Almirall, Erchonia, Sunetic Nutrafol, and Lifes2Good. Hilary Baldwin has served as advisor, investigator, and on speakers bureaus for Almirall, Cassiopea, "oamix, Galderma, Ortho Dermatologics, Sol Gel, and Sun Pharma. Valerie D Callender has served as an investigator, consultar or speaker for Ane Store, Almirall, Aerolase, AbbVie, Allergan Aesthetics, Avava, Avit Medical, Beiersdorf, Cutera, Dermavant spotter ar Actor Statis University and the spotter of the spotter consultant for Ortho Dermatologics. Ted Lain has served as investigator, consultant, and/or speaker for Ortho Dermatologics, Abt Almirall, Amgen, Arcutis, Dermavant, EPI Health, Galderma, Incyte, LEO Pharma, Novartis, Eli Lilly, Pfizer, Sun Pharma, UCB, Endo Centryx, Biorasi, Sirna omics. Evelo Bios ternatoria, Chemocenny, biolosi, Sindonins, creato insolences, concert rhamaceucias, cara rite lindera, Biofrontera, Alfasigma, Alfviva Biopharma, Anaptys Bio, Bausch Health, Dr. Reddy's, and Trevi Ti as served as either a consultant, speaker, advisor or an investigator for Allergan, Almirall, EPI Health, Ga ermatologics, and Sun Pharma. Emil A Tanghetti has served as speaker for Novartis, Ortho Dermatolog

	Week 12	
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ADAP	Vehicle Gel	
=109)	(n=353)	
.3%	-18.7%	
7%*#	-29.3%	
%***	-40.1%	