

Long-term treatment of plaque psoriasis with calcipotriene/betamethasone dipropionate foam was locally well tolerated and not associated with skin atrophy

Leon Kircik, MD¹, Marie Holst Mørch, MS², Bibi Petersen, MD, PhD², Monika Liljedahl, MD, PhD², Andreas Wollenberg, MD³

¹Department of Dermatology, Icahn School of Medicine at Mount Sinai, New York, NY, USA; ²LEO Pharma A/S, Ballerup, Denmark; ³Department of Dermatology and Allergy, Ludwig Maximilian University Munich, Munich, Germany

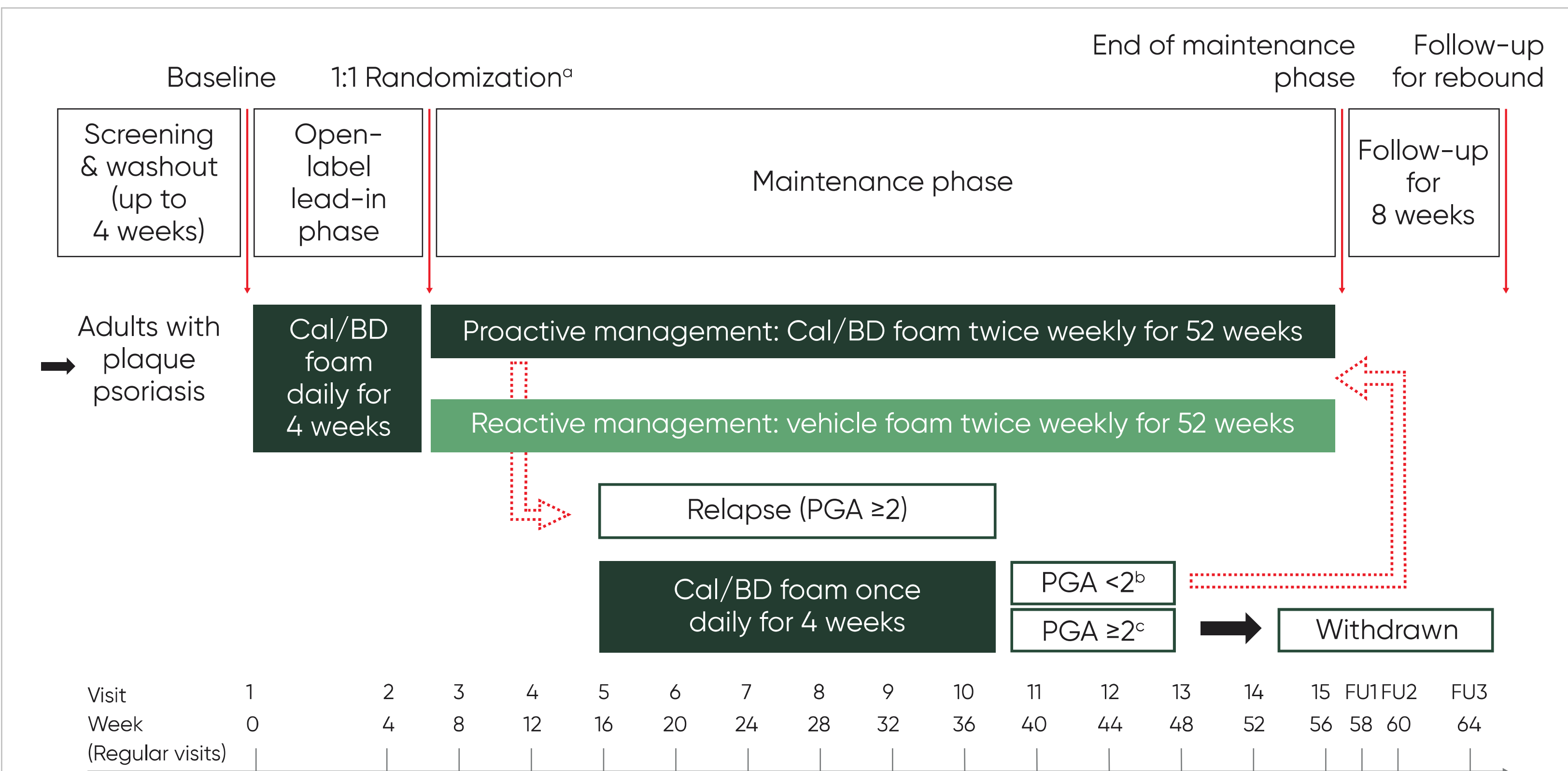
Introduction

- An unmet need exists for the long-term treatment of plaque psoriasis with topical therapies¹
 - Conventional long-term treatment of plaque psoriasis with topical therapies uses a reactive approach where the treatment is used after relapse has occurred versus a proactive approach to maintain remission^{2,3}
 - Proactive treatment is a well-established treatment concept for moderate-to-severe atopic dermatitis⁴
- The phase 3 PSO-LONG study showed that proactive management versus reactive management using calcipotriene 0.005%/betamethasone dipropionate 0.064% (Cal/BD) foam for up to 52 weeks in adults with psoriasis delayed time to first relapse, significantly extended time in remission, and reduced the number of relapses per year⁵
- Skin atrophy is a concern with long-term use of topical steroids⁶
- In this analysis of data from the PSO-LONG study, we evaluated skin atrophy and local tolerability

Methods

- PSO-LONG (NCT02899962) included an initial 4-week open-label phase (once-daily Cal/BD foam) and a 52-week, double-blind, maintenance phase where patients were randomized to twice-weekly Cal/BD foam or vehicle foam, with a 4-week once-daily Cal/BD foam rescue treatment for relapse (Physician Global Assessment [PGA] ≥ 2) (proactive management or reactive management, respectively) (Figure 1)
- Physician assessments of local skin reactions (dryness, erosion, erythema, edema, and burning/pain) were conducted at unscheduled visits or at regular visits (every 4 weeks). Other local skin reactions (ie, skin atrophy) were reported if observed during the visits

Figure 1. Trial design



^aPatients with treatment success at end of open-label lead-in phase (PGA score 'clear'/'almost clear' [PGA < 2] with ≥ 2 -grade improvement from baseline) were randomized 1:1 in the maintenance phase

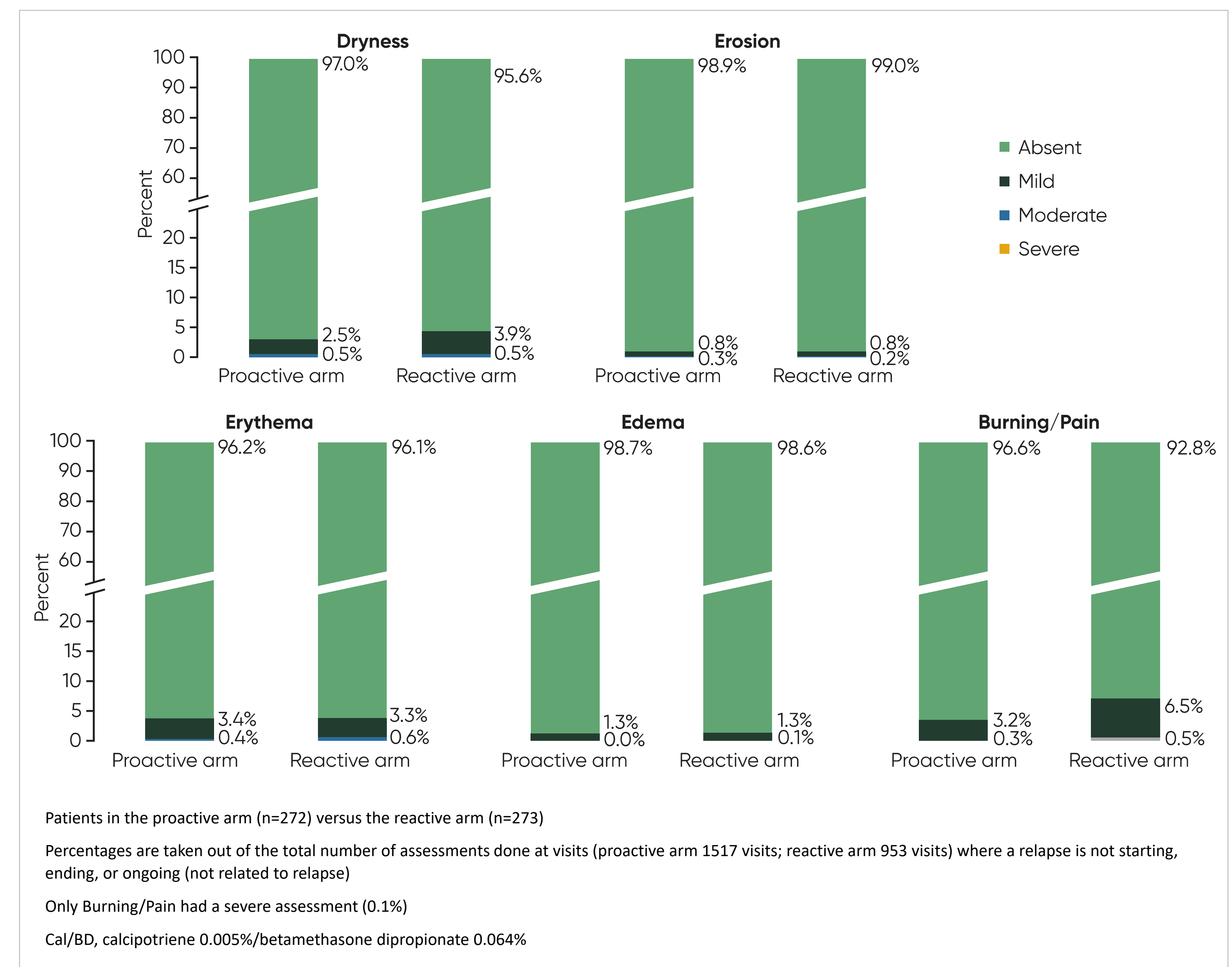
^bFollowing 4 weeks of once-daily rescue treatment, patients who regained PGA < 2 ('clear'/'almost clear') re-started the twice-weekly maintenance treatment according to the original randomization scheme

^cPatients who did not regain a PGA score < 2 ('clear'/'almost clear') following 4 weeks of once-daily rescue treatment were withdrawn from the trial
Cal/BD, calcipotriene 0.005%/betamethasone dipropionate 0.064%; FU, follow-up; PGA, Physician Global Assessment

Results

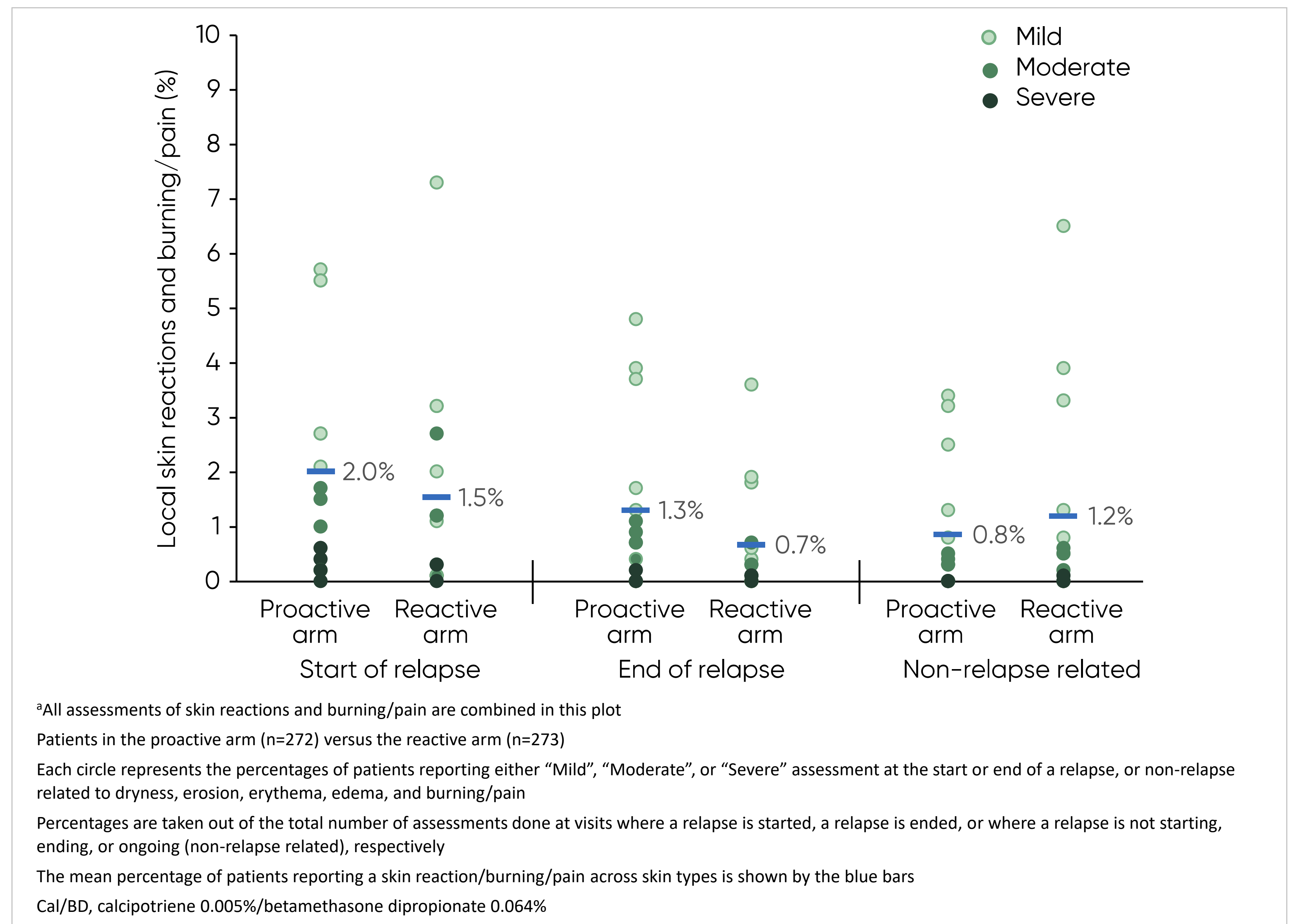
- The analysis included 545 patients (proactive arm, n=272; reactive arm, n=273)
 - Most of the patients in the study were men (68%), white (91%), with an average age of 52 (± 14 standard deviation) years and had PGA-moderate psoriasis (82%)
- When evaluating regular visits (non-relapse-related, ie, assessments done at visits where the patient is not starting or ending relapse, or in a relapse) (Figure 2), physicians reported:
 - No dryness (97.0% proactive arm vs. 95.6% reactive arm)
 - No erosion (98.9% proactive arm vs. 99.0% reactive arm)
 - No erythema (96.2% proactive arm vs. 96.1% reactive arm)
 - No edema (98.7% proactive arm vs. 98.6% reactive arm)
- Patients reported no burning/pain (96.6% proactive arm vs 92.8% reactive arm)

Figure 2. Assessments of local skin reactions not related to relapse



- At the start and end of relapses, local skin reactions and burning/pain were present at slightly higher levels than non-relapse-related visits (Figure 3) but were still absent for the majority ($\geq 89.8\%$) of patients in both treatment groups, with cases that were usually mild
- Skin atrophy was not reported by investigators at any point, in either treatment group

Figure 3. Assessments of local skin reactions and burning/pain^a



Conclusions

- Cal/BD foam was well tolerated in patients with psoriasis when used as either reactive or proactive management for up to 52 weeks, with low reports of local skin reactions and burning/pain, and no safety reporting of skin atrophy.

References

- Segaert S et al. *J Dermatolog Treat.* 2020 Feb 24;1-10 [online ahead of print].
- Augustin M et al. *J Dtsch Dermatol Ges.* 2014;667-682.
- Stein Gold L et al. *Adv Therap.* 2020;37:4730-4753.
- Wollenberg A, et al. *J Eur Acad Dermatol Venereol.* 2020;34(12):2717-2744.
- Lebwohl MG et al. *J Am Acad Dermatol* 2020; S0190-9622(20)32625-32626.
- Gabros S et al. *Topical Steroids. StatPearls Publishing;* 2020. <https://www.ncbi.nlm.nih.gov/books/NBK532940/>. Accessed February 26, 2021.

Disclosures

All authors met the ICMJE authorship criteria and had full access to the relevant data. Neither honoraria nor payments were made for authorship. **Leon Kircik** has served as a consultant, advisory board member, investigator, and/or speaker for AbbVie Inc, Amgen, Bristol-Myers Squibb, Celgene, Eli Lilly and Company, LEO Pharma, Mayne Pharma, Novartis, Ortho Dermatologics Inc, Sun Pharmaceutical Industries Ltd, Arcutis Biotherapeutics, Dermavant Sciences Ltd, Pfizer, Dr Reddy's Laboratories, and UCB. **Andreas Wollenberg** has received grants, personal fees, or nonfinancial support from AbbVie Inc, Almirall, Beiersdorf, Bioderma, Chugai Pharmaceutical Co, Galapagos NV, Galderma, Hans Karrer, LEO Pharma, Eli Lilly and Company, and L'Oréal. **Marie Holst Mørch, Bibi Petersen, Monika Liljedahl** are employees of LEO Pharma. Fixed-dose combination calcipotriene (Cal) 0.005%/betamethasone dipropionate (BD) 0.064% foam is approved for the treatment of psoriasis vulgaris (plaque psoriasis) for up to 4 weeks in patients 12 years and older in the United States

Acknowledgements

Medical writing support for the development of this poster, under the direction of the authors, was provided by Gautam Bijur, PhD, and editing support by Dena McWain, both of Ashfield MedComms, an Ashfield Health company, and funded by LEO Pharma

Funding

This study was funded by LEO Pharma A/S, Ballerup, Denmark

Scan to download a copy of this poster
Copies of this poster and its content, obtained through this QR code, are for personal use only and may not be reproduced without written permission from the authors

