Proactive management using calcipotriene/betamethasone dipropionate foam in patients with plaque psoriasis prolongs time with a health-related quality of life improvement, compared with reactive management

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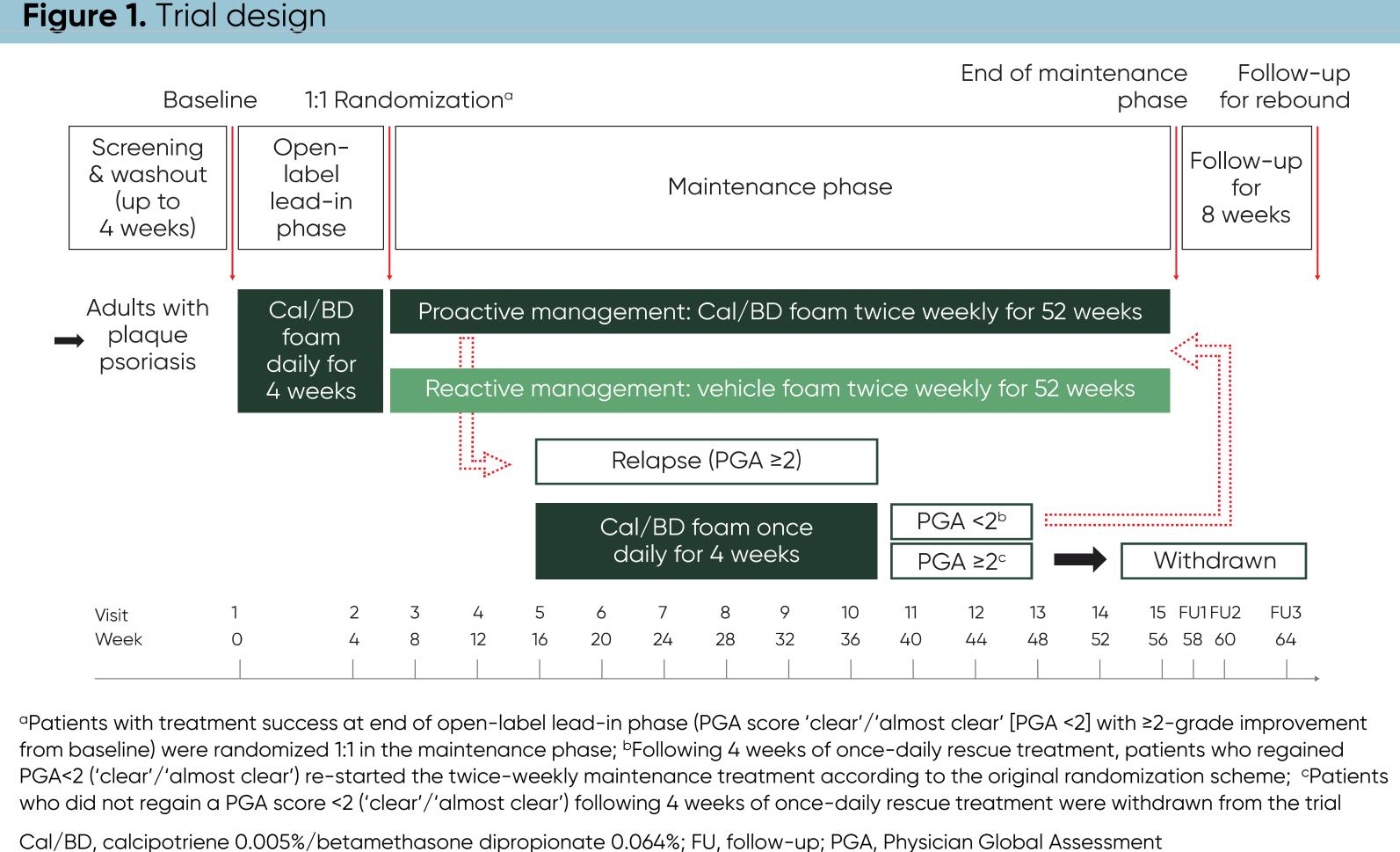
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Introduction

- An unmet need exists for the long-term management of plaque psoriasis with topical therapies¹
- o Conventional long-term management with topical treatments uses a reactive approach where the treatment is used after relapse has occurred versus a proactive approach to maintain remission²
- Proactive management is a well-established treatment concept for moderate-to-severe atopic dermatitis³
- 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 year⁴
- Cal/BD foam was well tolerated throughout the PSO-LONG trial⁴
- The patient-reported outcome measure Dermatology Life Quality Index (DLQI) evaluates patient perception of psoriasis on health-related quality of life⁵
- In this post hoc analysis of PSO-LONG, we evaluated whether initial DLQI responses obtained following open-label, once-daily, 4-week treatment using Cal/BD foam were better sustained using subsequent proactive management or reactive management

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**)
- The proportion of patients achieving DLQI 0/1 following the open-label phase was assessed during the maintenance phase to evaluate how long patients sustained their initially gained responses
- The full analysis set was used for the assessment of those patients where a DLQI measure was available
- Hazard ratios and survival analysis curves for time with response in each group were evaluated



Results

• The full analysis set included 521 patients with predor

Table 1. Patient demographics and baseline characteristics

Category Sex, n (%) Female Male Race, n (%) White Asian Black/African American Native Hawaiian or other Pacific Islander Missing Age (y), mean (SD) PGA, n (%) Mild Moderate Severe

mPASI, mean (SD)

BSA, mean (SD)

BSA, body surface area; mPASI, modified Psoriasis Area and Severity Index; PGA, Physician Global Assessment; SD, standard deviation

- During the open-label phase, 253 (49%) of 516 patients whose DLQI was measured both at baseline and at week 4 achieved DLQI 0/1
- During the maintenance phase, proactive management significantly reduced the risk of patients losing their initially gained DLQI 0/1 responses by 48% (Table 2)
- Median time to lost response was almost 3.5 times shorter for the reactive management group (197 days with proactive management vs. 57 days with reactive management)

Table 2. DLQI response estimate

Pro

Hazard ratio^a

95% CI

P value

Median time with DLQI 0/1

^aEstimates were obtained from a proportional hazard model with treatment group, trial site and DLQI total score at visit 2 as factors DLQI, Dermatology Life Quality Index

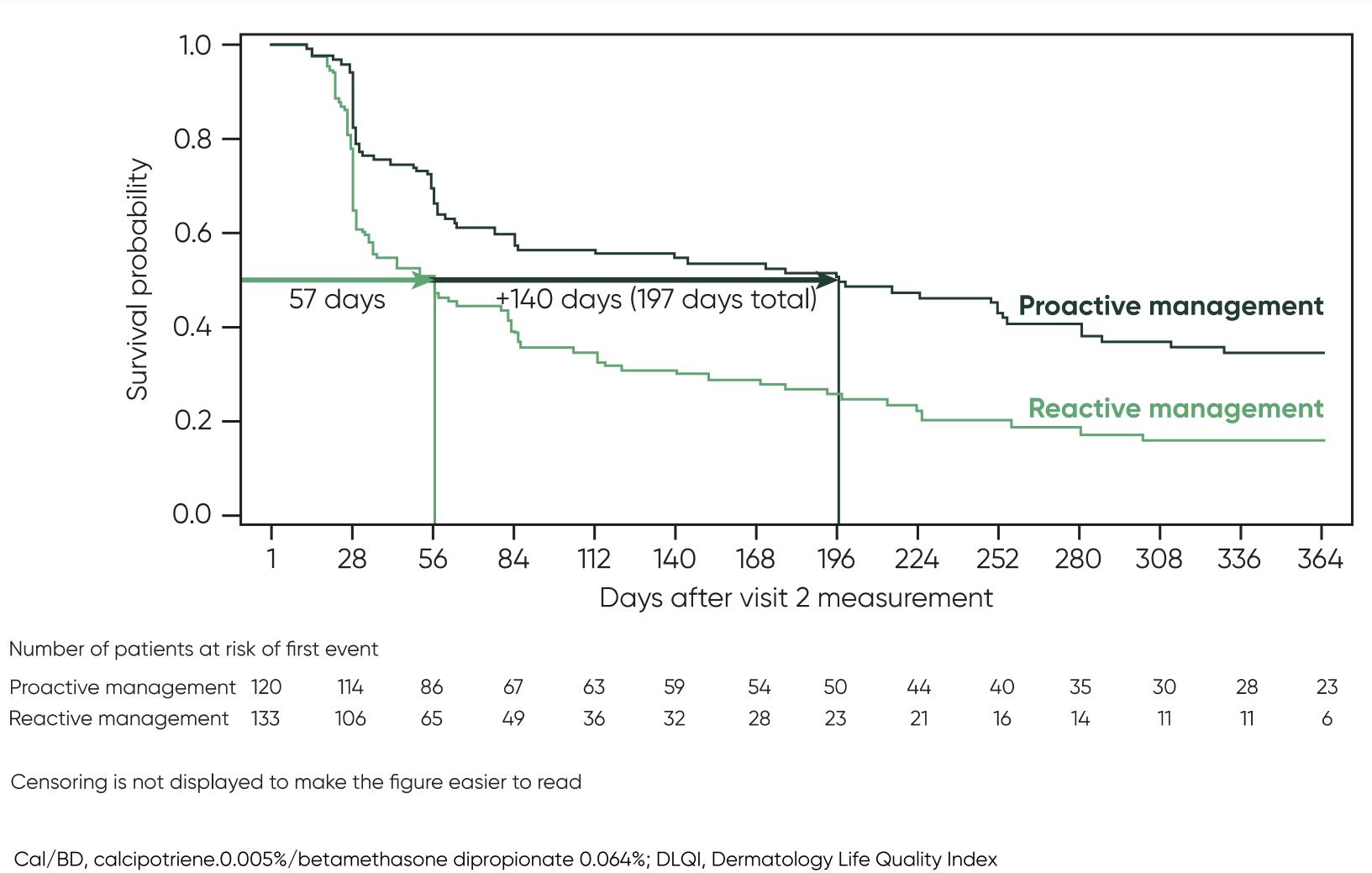
• Patients undergoing proactive management had a higher chance of sustaining the initial response compared with patients undergoing reactive management (Figure 2)

minantly PGA-moderate	psoriasis (85.2%) (T	able 1)
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MACCHISTICS		
N=521		
170 (32.6)		
351 (67.4)		
470 (90.2)		
33 (6.3)		
7 (1.3)		
3 (0.6)		
8 (1.5)		
52.3 (14.4)		
43 (8.3)		
444 (85.2)		
34 (6.5)		
7.8 (3.8)		
8.2 (6.2)		

pactive management (n=120)	Reactive management (n=133)	
0.52		
0.38–0.71		
<0.001		
197	57	

Figure 2. Estimated survival curve for time to first DLQI >1



Number of patients at risk of first event Proactive management 120 Reactive management 133

Conclusions

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• In a subset of patients achieving a DLQI 0/1, health-related quality of life response following the initial open-label, once-daily, 4-week Cal/BD foam treatment, subsequent proactive management with Cal/BD foam significantly prolonged time with a DLQI response versus reactive management

• The prolonged DLQI response with proactive management versus reactive management with Cal/BD foam may be attributed to improvements in efficacy

Disclosures

All authors met the ICMJE authorship criteria and had full access to the relevant data. Neither honoraria nor payments were made for authorship. Linda Stein Gold has served as consultant, advisory board member, investigator, and/or speaker fo LEO Pharma, Arcutis, Dermavant, Pfizer, AbbVie, Eli Lilly and Company, and Ortho Derm. Ahmad Jalili has served a consultant, advisor, investigator and/or speaker for AbbVie, Almirall, Amgen, Boehringer Ingelheim, BMS, Celgene, Eli Lilly and Company, GSK, LEO Pharma, Janssen-Cilag, MSD, Novartis and Sanofi. Dominique Lons Danic has served as a consultant for and/or received speaking fees or grants from Novartis, Eli Lilly and Company, AbbVie, LEO Pharma, Janssen, and Sanofi. **Piergiacomo Calzavara-Pinton** has served as an advisory board member or lectured for Galderma, Almirall, LEO Pharma, Sanofi, Meda, and AbbVie. Nanna Nyholm and Henrik Thoning 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



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