

# DFD-01, a betamethasone dipropionate 0.05% spray, improved quality of life and treatment satisfaction in subjects with moderate psoriasis

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## Introduction

- DFD-01 [Semivo™ (betamethasone dipropionate) Spray, 0.05%] is a spray formulation approved for the treatment of mild to moderate plaque psoriasis in adults.
- The efficacy and tolerability of DFD-01 have been demonstrated in subjects with extensive, moderate plaque psoriasis (10% to 20% body surface area [BSA]).
- This study assessed quality of life (QoL) and treatment satisfaction ratings of subjects with moderate plaque psoriasis.

## Methods

- In this open-label, multicenter study, adults with moderate plaque psoriasis (IGA = 3; BSA > 3%, excluding intertriginous areas) applied DFD-01 to affected areas twice daily for 28 days. For each subject, investigators identified 2 target lesions representative of overall disease.
- Assessments occurred at days 1 (baseline), 8, 14, and 29. At each visit, disease severity was assessed by IGA, total sign score (TSS) of target lesions, and BSA, and target lesions were photographed.
- QoL was evaluated using the Dermatology Life Quality Index (DLQI), a 10-item questionnaire assessing impact of skin disease on quality of life (scores range from 0 (best) to 30 (worst))<sup>1</sup>.
- Patient satisfaction was evaluated using the Treatment Satisfaction Questionnaire for Medication—Version II (TSQM-II), 9-items assessing effectiveness, side effects, convenience, and global satisfaction, yielding scores ranging from 0 (extremely unsatisfied) to 100 (extremely satisfied).
- Primary endpoints were:
  - (1) Change from baseline in clinical response and QoL at day 14
  - (2) Treatment Satisfaction at day 14

## Results

- Of 45 subjects enrolled, 24 had low BSA (3%-10%) and 21 had high BSA (>10%).
- 14 days of twice daily DFD-01 treatment was associated with decreased mean values of IGA (-0.9), TSS (-2.7), and BSA (-1.5%).
- Mean IGA reduction was greater in the low BSA group, whereas mean TSS and BSA reductions were greater in the high BSA group.
- DLQI decreased from a mean of 8.9 ± 6.7 at baseline to 3.3 ± 3.6 at day 14. The high BSA group showed greater improvement in QoL.
- Mean TSQM-II score was 46.2 at day 14, with greater treatment satisfaction in the high BSA group (48.1 vs 44.9).

## Conclusions

- DFD-01 was associated with decreased IGA, TSS, and BSA in adults with moderate plaque psoriasis.
- Treatment was associated with improved QoL after 2 weeks of treatment, and subjects reported satisfaction with DFD-01 in both low (3%-10%) and high (>10%) BSA groups.
- DFD-01 treatment resulted in better outcomes in subjects with higher BSA involvement at baseline.

## Reference

1. Finlay AY, Khan GK. "The Dermatology Life Quality Index: A simple practical measure for routine clinical use". British Association of Dermatologists Annual Meeting, Oxford, July 1993. *British Journal of Dermatology*, 1993;129(Suppl 42):27.

## Change in Clinical and QoL Parameters From Baseline to Day 14 (IIT Population)

