Achieving Clear or Almost-Clear Skin Clearance in Moderate-to-Severe Psoriasis is Associated with Clinically Meaningful Itch Reduction and Lower Healthcare Costs

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Background

Achieving skin clearance is the central treatment goal in the clinical management of moderate-to-severe plaque psoriasis (PsO), as it reflects effective disease control and correlates with improved patient outcomes. Complete or near-complete clearance of lesions has been associated with better health-related quality of life (HRQoL), reduced symptom burden, and greater treatment satisfaction.¹



Itch is one of the most burdensome and difficult-to-treat symptoms of PsO, often persisting even when skin lesions are partially controlled. Uncontrolled itch has a significant impact on HRQoL.²



Real-world data on the relationship between skin clearance, itch reduction, and healthcare resource utilization (HCRU) remain limited, highlighting the need for further investigation.³

Objectives



To characterize patients based on skin clearance achievement and to assess the impact of skin clearance on itch control, HCRU, and associated costs.

Key Takeaways



Skin clearance was achieved in fewer than 30% of real-world patients, underscoring a substantial gap in treatment effectiveness for moderate-to-severe plaque psoriasis.



Achieving clear or almost-clear skin was associated with a clinically meaningful reduction in itch, a major driver of patient burden and impaired quality of life.

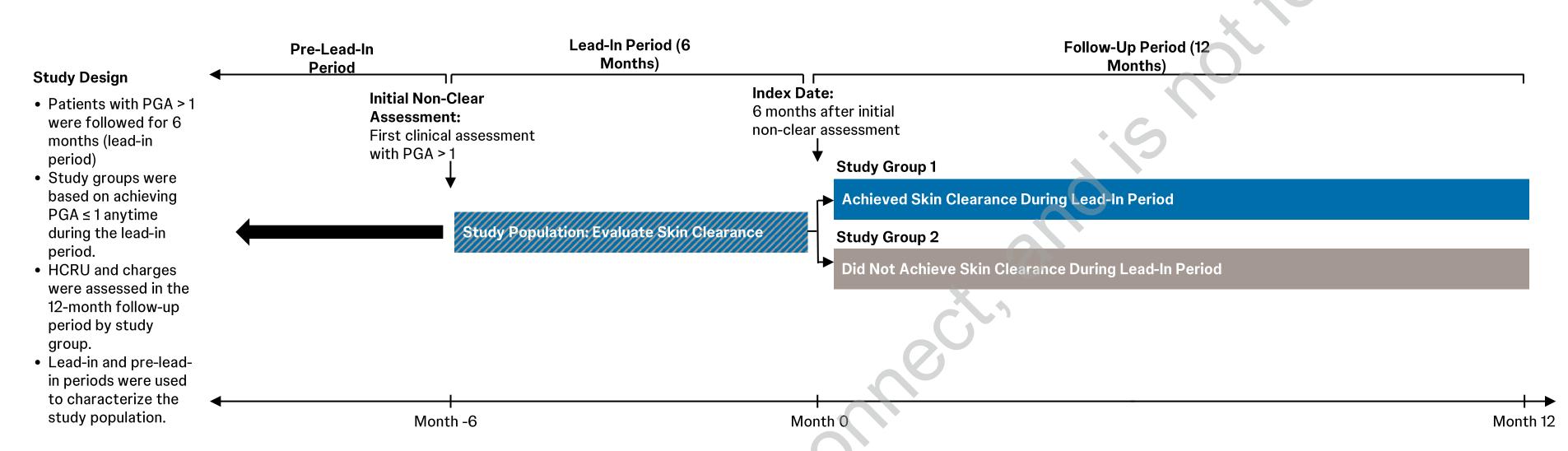


Patients who did not achieve skin clearance incurred high healthcare costs without the benefit of reduced itch.

Methods

- Linked electronic health record and claims data from specialty dermatology networks in the OMNY Health platform from 2017 to 2024 were analyzed.
- Patients aged ≥ 18 years with a PsO diagnosis code were selected if they had a physician global assessment (PGA) of non-clear skin (i.e., PGA > 1) and a follow-up PGA measurement within six months of the initial non-clear assessment (designated as lead-in period).
- Clear skin was defined as a PGA of clear or almost clear (0 or 1). Patients were grouped based on skin clearance achievement during the lead-in period and indexed at the end of the lead-in period.
- Patients were characterized at the index date (demographics) and during the lead-in period (disease activity). Itch was measured using the itch numeric rating scale (NRS). All-cause HCRU was assessed during the 6-month lead-in period and 12 months following the index date (designated as follow-up period).

Baseline Characteristics of Study Population

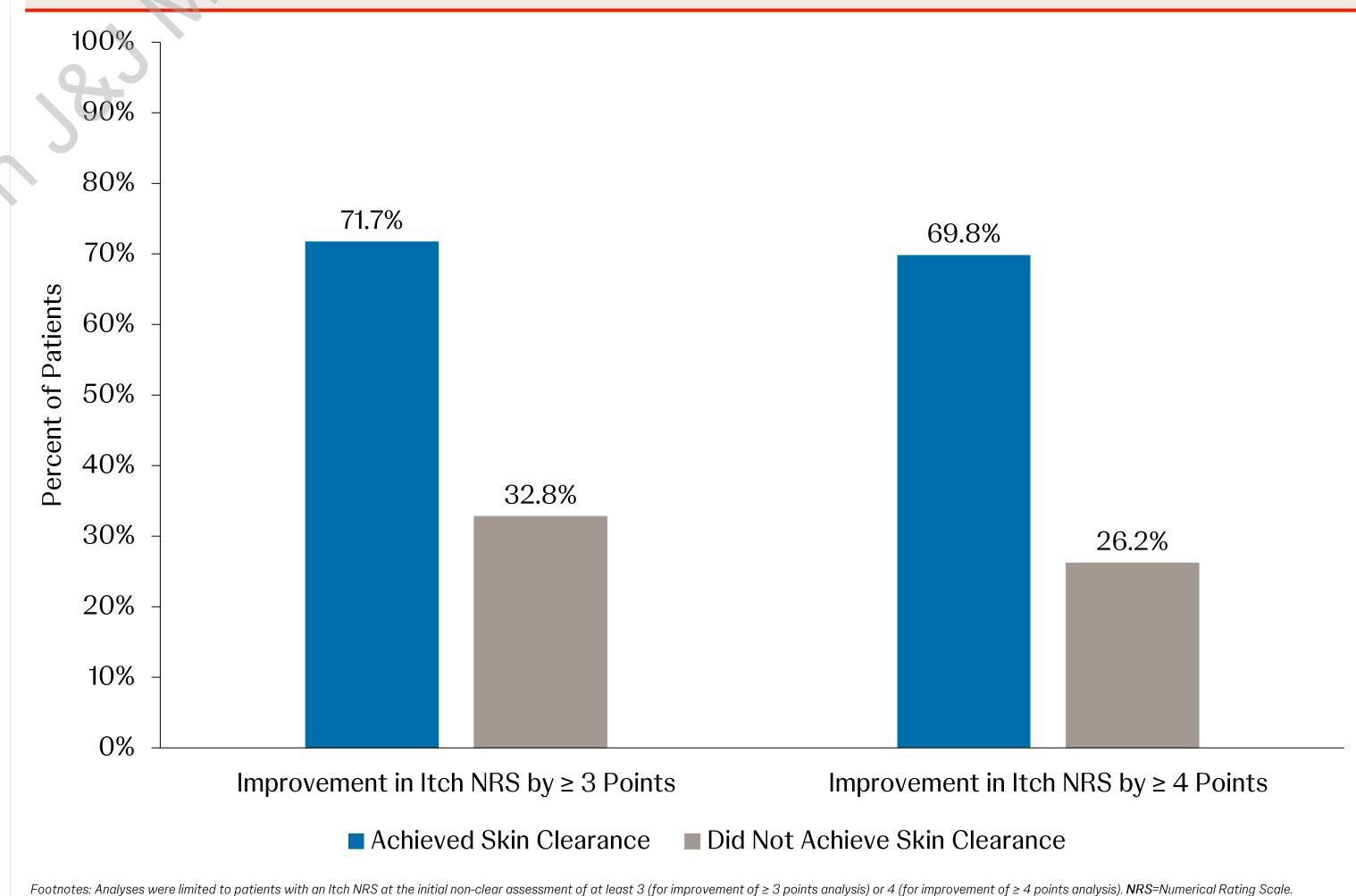


Footnotes: HCRU=healthcare resource utilization, PGA=physician global assessment.

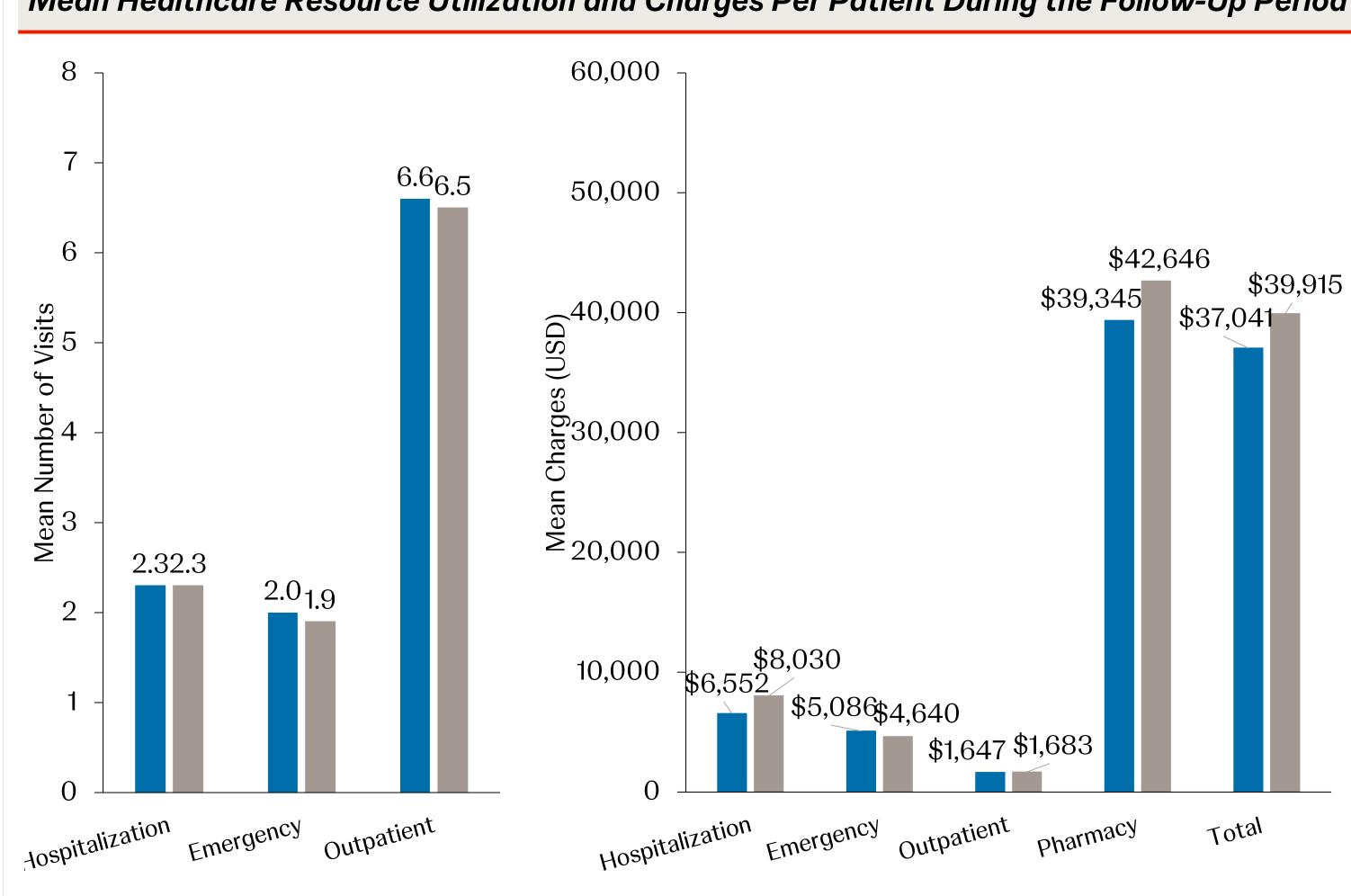
Results

Did Not Achieve Skin Achieved Skin Clearance Baseline Characteristics Clearance (N = 7,194)(N = 17,239)**Demographics at Index Date** 53.7 (16.5) 54.1 (16.5) Age, yrs 55.6% 55.4% **Female** Race, Asian/Black/Other/White 3.8/5.5/4.6/86.1% 4.2/6.6/5.3/83.9% **BMI**, kg/m² 30.3 (7.1) 31.0 (7.4) **Disease Characteristics** 1.0 (1.7) 1.0 (1.7) PsO disease duration in OMNY data^a, yrs 15.1 (17.5); 10 18.4 (19.7); 10 % BSA with PsOb, mean (SD); median 55.8/12.9% 61.5/18.5% **PGA score**^b, Moderate (3)/Severe (4) 5.3 (2.9); 5 Itch NRS (0-10)b, mean (SD); median 5.8 (2.8); 6 **Medical History/Comorbidities** Cardiovascular disease 53.0% 55.0% 19.6% Type 2 diabetes 21.9% 12.6% 14.2% Cancer F 11.2% **Asthma** 12.4% 19.1% 18.1% Allergic rhinitis 29.3% 32.1% Anxiety or depression Charlson comorbidity index 2.7 (3.1) 2.9 (3.2) **Prior Treatments** 82.4% Topical steroids 85.0% 43.0% 48.2% Nonsteroidal topical agents^c 24.9% Oral steroids^d 26.1% Systemic agents/DMARDs^e 18.7% 19.3% 10.3% 11.4% **Apremilast** 6.8% 6.6% Methotrexate Other systemic agents/DMARDsf 3.9% 4.0% 19.6% 16.0% Biologics^e TNF-alpha inhibitors⁹ 10.9% 9.1% 10.7% 8.7% Interleukin inhibitorsh Number of biologics 0.2(0.6)0.2 (0.5) **Opioids** 19.8% 20.6%

Percent of Patients With Clinically Meaningful Itch NRS Improvement During the Lead-In Period



Mean Healthcare Resource Utilization and Charges Per Patient During the Follow-Up Period



■ Did Not Achieve Skin Clearance

■ Achieved Skin Clearance

Footnotes: Data shown are mean (SD) unless otherwise noted. All summary statistics are based on non-missing data. ^a Time from initial PsO diagnosis code to index visit and may not represent full disease duration. ^b At initial non-clear assessment. ^c Comprises the following: ketoconazole, anthralin, calcipotriene, calcitriol, pimecrolimus, tazarotene. ^d Comprises the following: dexamethasone, methylprednisolone, prednisolone, prednisolone, eSubcategories are not mutually exclusive and may not sum to total. ^f Comprises the following: apremilast, deucravacitinib, acitretin, tofacitinib, methotrexate, cyclosporine, chloroquine/hydroxychloroquine, sulfasalazine. ^g Comprises the following: adalimumab, certolizumab, etanercept, infliximab. ^h Comprises the following: secukinumab, brodalumab, ixekizumab, guselkumab, tildrakizumab, risankizumab. BMI=body mass index, BSA=body surface area, DMARD=disease-modifying antirheumatic drug, kg=kilograms, m=meters, NRS=Numerical Rating Scale, PGA=physician global assessment, PsO=plaque psoriasis, TNF=tumor necrosis factor, yrs=years.

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