The evaluation of adequate clinical response to systemic therapy as measured by the Merit-based Incentive Payment System (MIPS) #410 psoriasis quality measure in patients treated with deucravacitinib: a RePhlect 6-month follow-up study

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Introduction

- Tracking compliance with quality-of-care performance measures and participation in quality reporting programs has been shown to be an effective method for improving quality of care in dermatology¹
- The Merit-based Incentive Payment System (MIPS) is designed to encourage value-based care among US Medicare-participating practitioners²
- With MIPS, a provider's Medicare reimbursement amount is driven in part by their ability to show high-quality, low-cost care
- In a 2018 study, dermatologists who participated in MIPS reported improved performance³
- MIPS #410, a clinical quality measure developed by the American Academy of Dermatologists (AAD), evaluates the proportion of patients with psoriasis receiving systemic medication who meet minimal physician- or patient-reported disease activity levels
- Deucravacitinib, an oral, selective, allosteric tyrosine kinase 2 (TYK2) inhibitor, is approved in the US, EU, and other countries for the treatment of adults with moderate to severe plaque psoriasis who are candidates for systemic therapy⁴⁻⁷
- The Registry of Psoriasis Health Outcomes: A Longitudinal Real-World Collaboration Study (RePhlect) assesses deucravacitinib usage in a real-world, global population of patients with psoriasis

Objectives

- To assess the proportion of patients who meet MIPS #410 clinical response among patients enrolled in the RePhlect North American (NA) cohort who were persistent with deucravacitinib monotherapy for 6 months
- MIPS clinical response was defined as achieving ≥1 of the following outcomes:
- Investigator's Global Assessment (IGA) score ≤2
- Body surface area (BSA) involvement <3%
- Psoriasis Area and Severity Index (PASI) score <3
- Dermatology Life Quality Index (DLQI) score ≤5

Methods

Statistical analysis

- Demographics and clinical characteristics data were collected at baseline
- The MIPS outcome measures (IGA, BSA, PASI, and DLQI) were collected at 6-month follow-up
- Proportions of patients meeting MIPS clinical response were calculated





Results

Characteristics

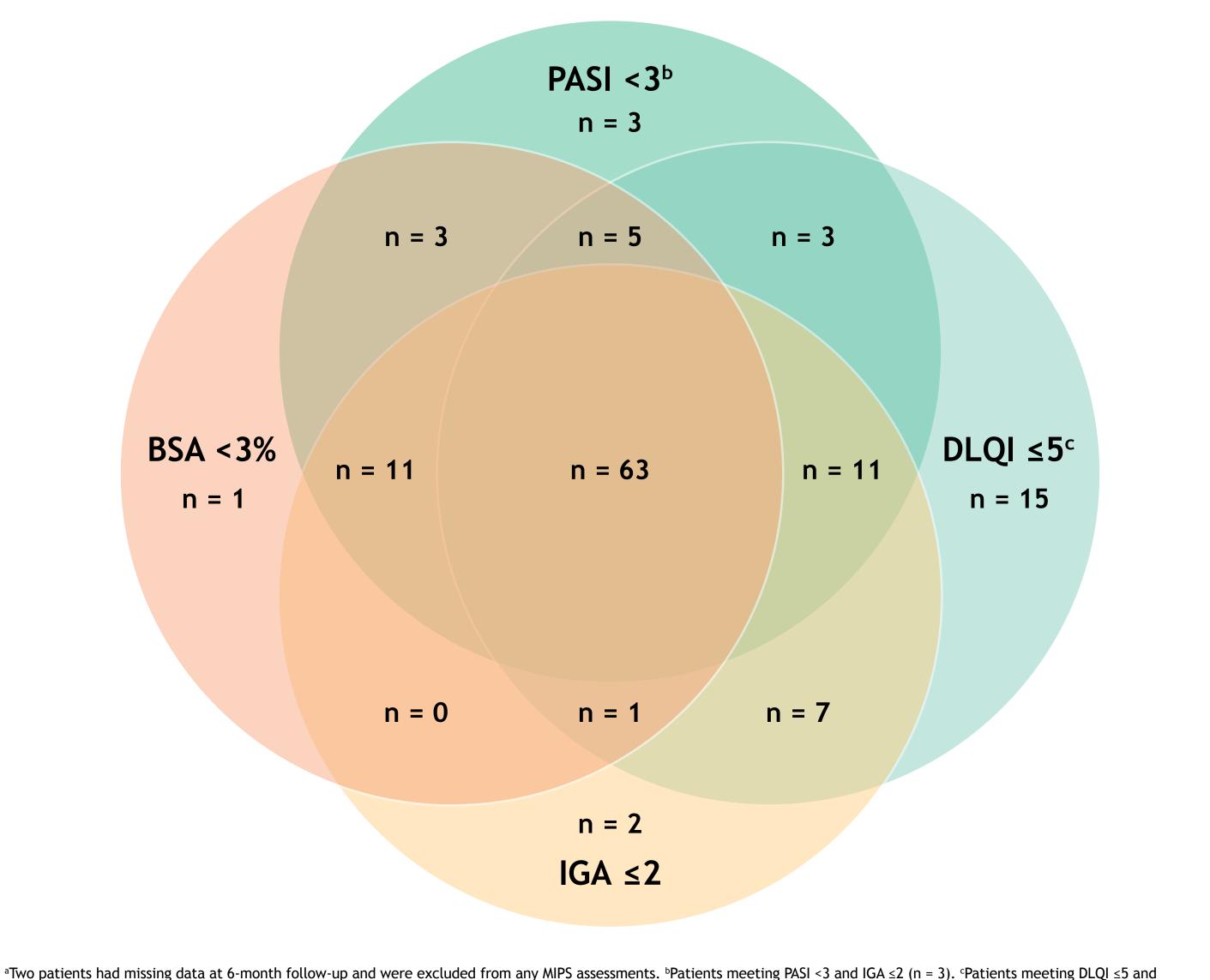
- This interim analysis included 144 patients
- Mean (standard deviation [SD]) age was 53.6 (14.5) years, 54.2% were female, and 85.3% were White (Table 1)
- Mean (SD) psoriasis duration was 15.3 (12.9) years (**Table 1**)
- Moderate to severe disease, defined as having BSA ≥3%, PASI ≥5, or DLQI ≥5, was observed in 91.7% of patients (n = 132) at baseline
- Of 142 patients with available data, 92.3% (n = 131) met ≥1 MIPS criterion for clinical response at 6 months with continuous deucravacitinib treatment (Figure 1)
- All 4 MIPS criteria were met by 44.4% of patients (Figure 2)
- At least 3 MIPS criteria were met by 64.1% of patients (Figure 2)
- At least 2 MIPS criteria were met by 77.5% of patients (Figure 2)

Table 1. Baseline demographic and clinical characteristics

Demographic characteristics	
Age (years)	
Mean (SD)	53.6 (14.5)
Sex, n (%)	
Female	78 (54.2)
Race, n (%)	
White	122 (85.3)
BMI category, n (%)	
Underweight/normal	24 (17.9)
Overweight	56 (41.8)
Obesity	54 (40.3)
Clinical characteristics	
Psoriasis duration, years, mean (SD)	15.3 (12.9)
BSA, mean (SD)	9.8 (9.2)
BSA category, n (%)	
Clear or mild [0-3]	30 (21.0)
Moderate [>3-10]	79 (55.2)
Severe [>10]	34 (23.8)
IGA, mean (SD)	2.8 (0.8)
IGA, n (%)	
Clear/almost clear [0-1]	9 (6.3)
Mild [2]	26 (18.2)
Moderate [3]	92 (64.3)
Severe [4]	16 (11.2)
PASI, mean (SD)	6.5 (5.3)
PASI, n (%)	
Clear/nearly clear [0-1]	19 (13.2)
Mild [>1-5]	48 (33.3)
Moderate [>5-10]	44 (30.6)
Severe [>10]	33 (22.9)
DLQI, mean (SD)	7.1 (5.5)
VAS-Itch, mean (SD)	56.1 (30.1)
VAS-Skin pain, mean (SD)	33.3 (29.2)
VAS-Fatigue, mean (SD)	39.1 (30.3)
VAS-Joint pain, mean (SD)	48.1 (29.3)

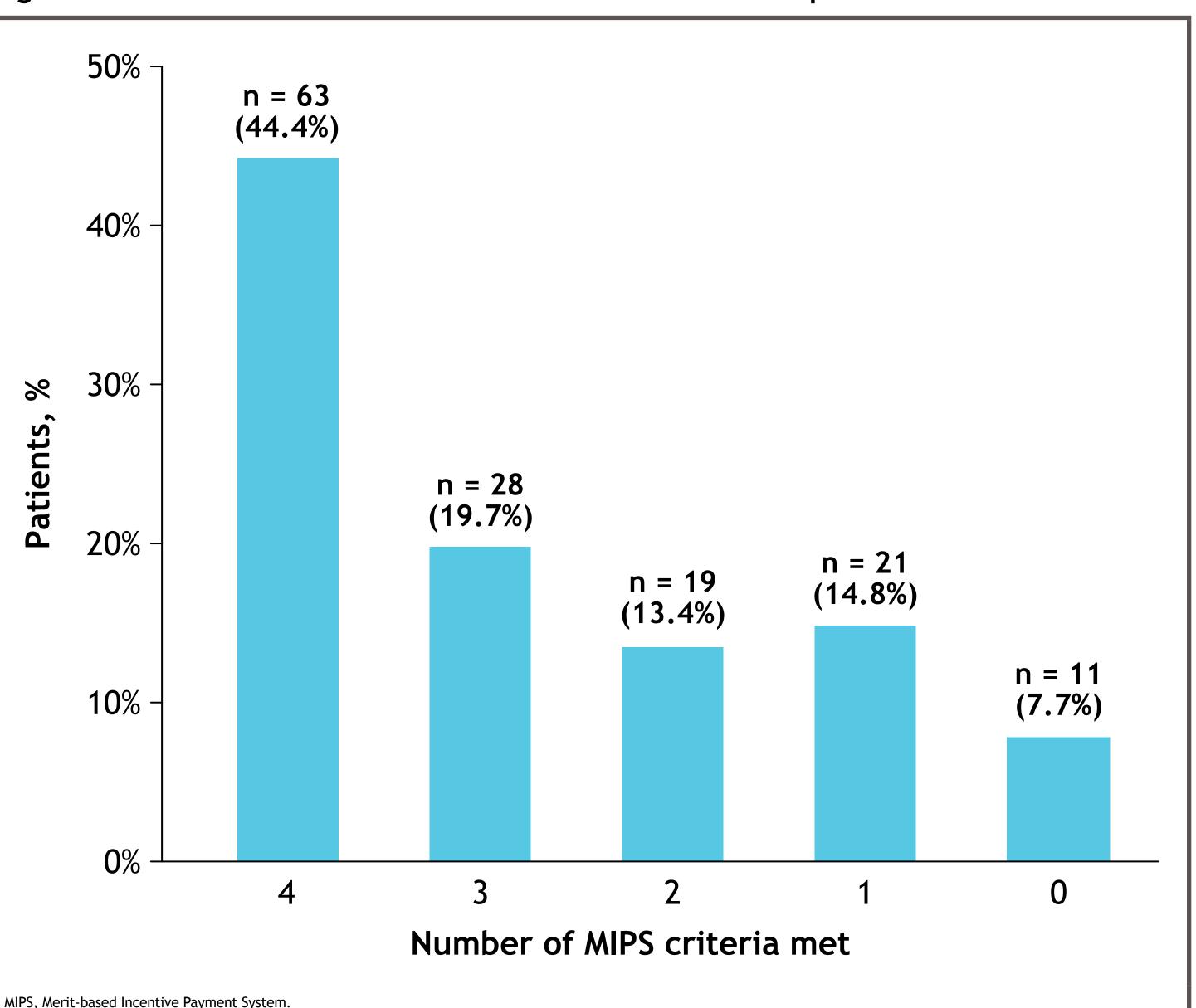
BMI, body mass index; BSA, body surface area; DLQI, Dermatology Life Quality Index; IGA, Investigator's Global Assessment; PASI, Psoriasis Area and Severity Index; SD, standard

Figure 1. Number of patients meeting MIPS characteristics at 6-month follow-up $(N = 142^a)$



BSA, body surface area; DLQI, Dermatology Life Quality Index; IGA, Investigator's Global Assessment; MIPS, Merit-based Incentive Payment System; PASI, Psoriasis Area and

Figure 2. Number of MIPS criteria met at 6-month follow-up



Conclusions

• Outcomes following 6 months of persistent treatment with deucravacitinib among plaque psoriasis patients in a real-world setting met criteria for high-quality care, based on the MIPS #410 clinical quality measure.

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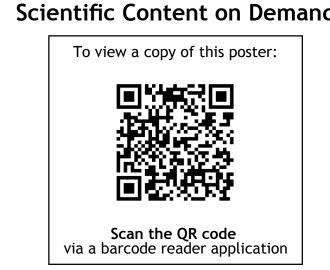
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Acknowledgments

- The design and conduct of this research study was a collaborative effort between CorEvitas and Bristol Myers Squibb, and financial support for the research study was provided by Bristol Myers Squibb
- The CorEvitas Psoriasis Registry was developed in collaboration with the National Psoriasis Foundation (NPF)
- The registry study is sponsored by CorEvitas, LLC. CorEvitas has been supported through contracted subscriptions in the last two years by AbbVie, Amgen, Inc., Arena, Boehringer Ingelheim, Bristol Myers Squibb, Chugai, Eli Lilly and Company, Genentech, GSK, Janssen Pharmaceuticals, Inc., LEO Pharma, Novartis, Ortho Dermatologics, Pfizer, Inc., Sun Pharmaceutical Industries Ltd., and UCB S.A.
- The authors would like to thank all the investigators, their clinical staff, and patients who participate in the CorEvitas Psoriasis Registry
- Medical writing and editorial assistance was provided by Michon Jackson, PhD, of Peloton Advantage, LLC, an OPEN Health company, funded by Bristol Myers Squibb

Disclosures

- AWA: Research investigator, scientific advisor, and/or speaker: AbbVie, Almirall, Arcutis, Aslan Pharmaceuticals, Beiersdorf, Boehringer Ingelheim, Bristol Myers Squibb, Dermavant, Dermira, EPI Health, Incyte, Janssen, Leo Pharma, Lilly, Mindera Health, Nimbus, Novartis, Ortho Dermatologics, Pfizer, Regeneron, Sanofi, Sun Pharma, and UCB
- ML: Research funding on behalf of Mount Sinai: AbbVie, Amgen, Arcutis, AstraZeneca, Avotres, Boehringer Ingelheim, Cara Therapeutics, Dermavant, Incyte, Inozyme, Janssen, Lilly, Ortho Dermatologics, Regeneron, Sanofi-Regeneron, Takeda Pharmaceuticals, and UCB; Consulting fees: Almirall, AltruBio, AnaptysBio, Arcutis, AstraZeneca, Avotres, Boehringer Ingelheim Brickell Biotech (Fresh Tracks Therapeutics), Bristol Myers Squibb, Castle Biosciences, Celltrion, CorEvitas, Dermayant, EPI Health (Novan), Evommune, Forte Biosciences, Galderma, Genentech, Incyte, Inozyme, Leo Pharma, Meiji Seika Pharma, Mindera Health, Pfizer, Sanofi-Regeneron, Seanergy, Strata Skin Sciences, Takeda Pharmaceuticals, Trevi Therapeutics, and Verrica
- SV, JZ, and AN: Employees and shareholders: Bristol Myers Squibb
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- RRM: Employee: CorEvitas, LLC; Stockholder: Thermo Fisher Scientific
- KAP: Consultant: AbbVie, Acelyrin, Akros, Amgen, Aralez Pharmaceuticals, Arcutis, Avillion, Bausch Health/Valeant, Boehringer Ingelheim, Bristol Myers Squibb, Can-Fite BioPharma, Celltrion, Coherus, Dermavant, Dermira, Dice Therapeutics, Dow Pharma Evelo, Forbion, Galderma, Incyte, Janssen, Kyowa Hakko Kirin, Leo Pharma, Lilly, Meiji Seika Pharma, Merck, Mitsubishi Pharma, Novartis, Pfizer, Regeneron, Reistone, Roche, Sanofi Genzyme, Sandoz, Sun Pharma, Takeda Pharmaceuticals, UCB, vTv Therapeutics, and Xencor; Speakers bureau: AbbVie, Amgen, Bausch Health/Valeant, Celgene, Galderma, Incyte, Janssen, Kyowa Hakko Kirin, Leo Pharma, Lilly, Merck, Novartis, Pfizer, and Sanofi Genzyme; Clinical research grants: AbbVie, Akros, Amgen, Anacor, Arcutis, Avillion, Bausch Health/Valeant, Boehringer Ingelheim, Bristol Myers Squibb, Can-Fite BioPharma, Coherus, Dermavant Dermira, Dice Therapeutics, Dow Pharma, Evelo, Galderma, Gilead, GSK, Incyte, Janssen, Kyowa Hakko Kirin, Leo Pharma, Lilly, Merck, Novartis, Pfizer, Regeneron, Roche, Sanofi Genzyme, Sun Pharma, Takeda Pharmaceuticals, and UCB; Honoraria: AbbVie, Acelyrin, Akros, Amgen, Aralez Pharmaceuticals, Bausch Health/Valeant, Boehringer Ingelheim, Celltrion, Coherus, Dermavant, Dice Therapeutics, Forbion, Galderma, Janssen, Kyowa Hakko Kirin, Leo Pharma, Lilly, Meiji Seika Pharma, Merck, Mitsubishi Pharma, Novartis, Pfizer, Reistone, Sanofi Genzyme, Sandoz, Sun Pharma, Takeda Pharmaceuticals, UCB, vTv Therapeutics, and Xencor; Scientific officer: Akros, Anacor, Arcutis, Dice Therapeutics, and Kyowa Hakko Kirin; Steering committees: AbbVie, Amgen, Bausch Health/Valeant, Boehringer Ingelheim, Janssen, Kyowa Hakko Kirin, Lilly, Merck, Novartis, Pfizer, Regeneron, Reistone, and Sanofi Genzyme; Advisory boards: AbbVie, Amgen, Bausch Health/Valeant, Boehringer Ingelheim, Bristol Myers Squibb, Dice Therapeutics, Dow Pharma, Galderma, Janssen, Lilly, Merck, Novartis, Pfizer, Regeneron, Sanofi Genzyme, Sun Pharma, and UCB
- JFM: Consultant and/or investigator: AbbVie, Amgen, Biogen, Bristol Myers Squibb, Dermavant, Janssen, Leo Pharma, Lilly, Novartis, Pfizer, Regeneron, Sanofi, Sun Pharma, and UCB
- ABG: Research/educational grants: Bristol Myers Squibb, Janssen, Moonlake, and UCB Pharma (all paid to Mount Sinai School of Medicine); Honoraria/speaker fees: Amgen, Eli Lilly, Highlight Therapeutics, Janssen, Novartis, Sanofi, Sun Pharma, Takeda, Teva, UCB, and Xbiotech (stock options for RA)
- BS: Consultant with honoraria: AbbVie, Acelyrin, Alamar, Almirall, Alumis, Amgen, Arcutis, Arena Pharmaceuticals, Aristea Therapeutics, Asana, Boehringer Ingelheim, Bristol Myers Squibb, Capital One, Celltrion, CorEvitas, Dermavant, Inmagene, Janssen/J&J Innovative Medicine, Kangpu Biopharmaceuticals, Leo Pharma, Lilly, Maruho, Meiji Seika Pharma, Monte Rosa Therapeutics, Novartis, Pfizer, Protagonist, Rapt Therapeutics, Regeneron, Sanofi, Sun Pharma, Takeda Pharmaceuticals, TD Cowen, UCB, Union Therapeutics, Ventyx Biosciences, and vTv Therapeutics; Speaker: AbbVie, Arcutis, Dermavant, Incyte, Janssen/ J&J Innovative Medicine, Lilly, Regeneron, and Sanofi; Co-scientific director (consulting fee) and investigator: CorEvitas Psoriasis Registry; Editor-in-chief with honorarium: Journal of Psoriasis and Psoriatic Arthritis; Stock options: Connect Biopharma, Mindera Health



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Overall cohort

(n = 144)