Understanding the Impact of Moderate Psoriasis Beyond Skin Involvement

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Factors Contributing to Disease Severity

• Psoriasis can be associated with significant disease burden, even for patients with moderate skin involvement, because of the impact of:¹⁻³



Psoriasis, a Systemic Disease

- Psoriasis is a chronic, systemic, inflammatory disease^{1,4}
- Patients with moderate psoriasis often have serious comorbidities, such as psoriatic arthritis^{4,5}

Assessing Disease Severity

- Psoriasis can have a large impact on patients, even for patients with more moderate disease and limited skin involvement¹⁻³
- Conventional clinical measures, such as BSA and PASI, may not capture the full impact of psoriasis, and patient perspectives are critical¹⁻³



The Importance of Patient Perspectives

• Outcomes not captured by these conventional clinical measures can drive patient perception of disease, especially for patients with more moderate skin involvement^{1,3,6}

Recent guidelines recommend taking more than just skin involvement into account when assessing disease severity¹⁻³



For patients with moderate psoriasis and limited skin involvement, a comprehensive disease assessment may uncover unique unmet needs, help ensure patient-provider alignment on disease severity, and contribute to patient-centered care¹⁻³



BSA = body surface area; PASI = Psoriasis Area and Severity Index.

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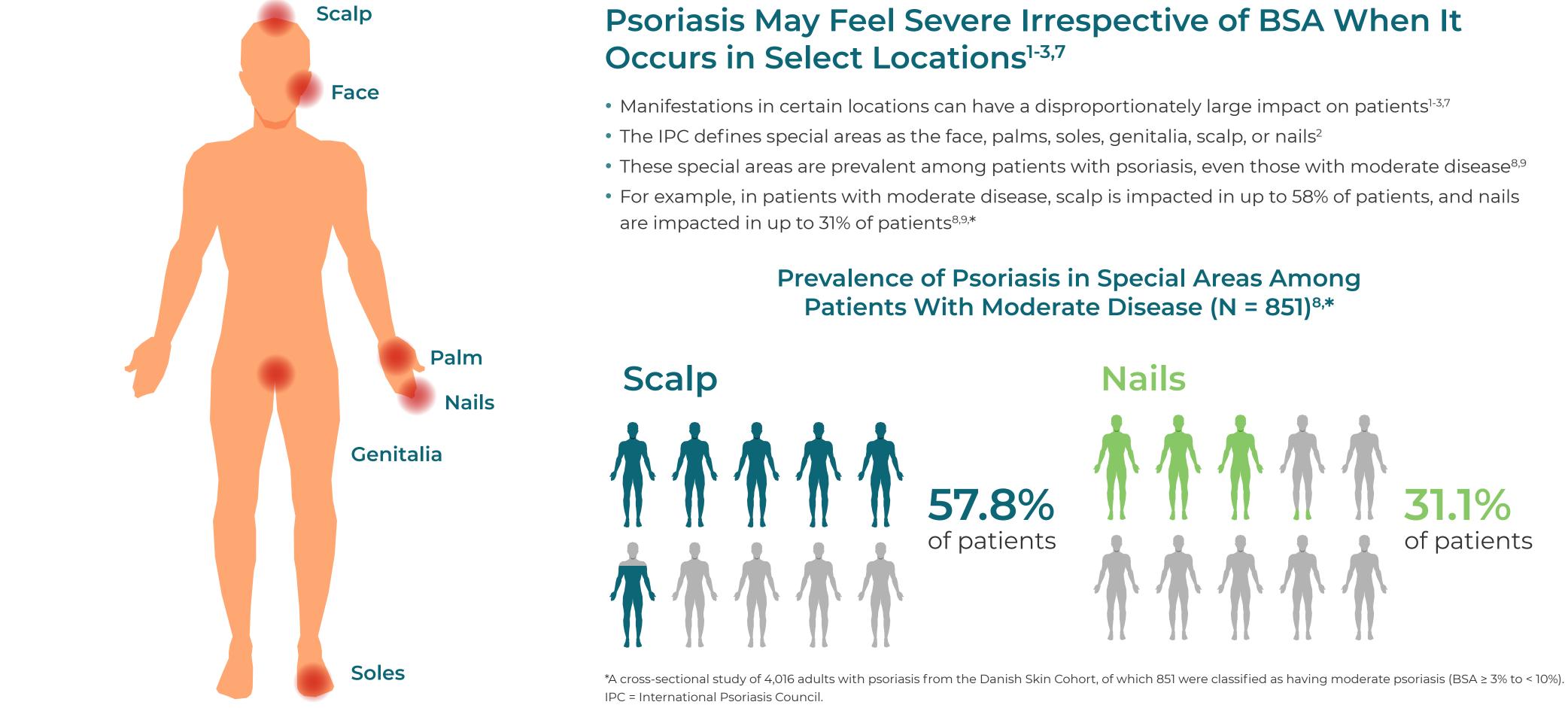


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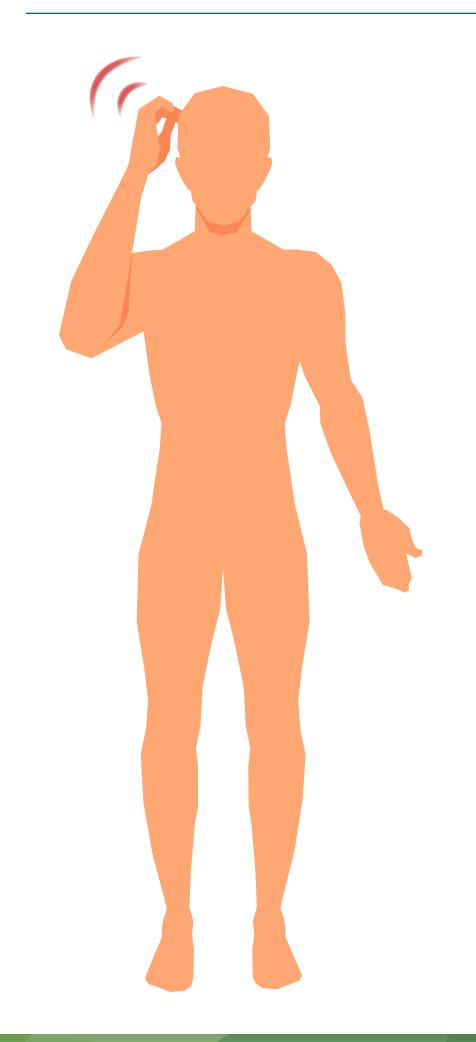
Factors Contributing to Disease Severity: Special Areas







Factors Contributing to Disease Severity: Symptoms



Psoriasis May Feel Severe Irrespective of BSA When It Causes Intractable Pruritus³

Psoriasis-associated Itch

- Causes patients to be more affected by their disease than those without itch^{12,†}
- Experienced by ~ 60% of patients with moderate psoriasis at any given time^{12,†}
- Reported as moderate to severe by most patients who experience itch^{12,†}

*MAPP was a population-based survey of 3,426 patients and 781 physicians in North America and Europe that aimed to determine the impact of psoriasis and psoriatic arthritis on HRQoL and to identify unmet treatment needs; [†]According to data from the Growth from Knowledge Disease Atlas Global Real-World Evidence program in psoriasis, an international, retrospective, cross-sectional survey of 524 dermatologists and 3,821 of their patients across 9 countries (Germany, the UK, France, Spain, Italy, South Korea, Brazil, Mexico, and Russia) between September 2015 and January 2016. HRQoL = health-related quality of life; MAPP = Multinational Assessment of Psoriasis and Psoriatic Arthritis.

• Can affect the entire body, with the scalp being one of the most commonly impacted locations^{10,11} • Indicated by patients with psoriasis as the **most common symptom** of psoriasis and the **most**

important factor contributing to disease severity^{6,*}





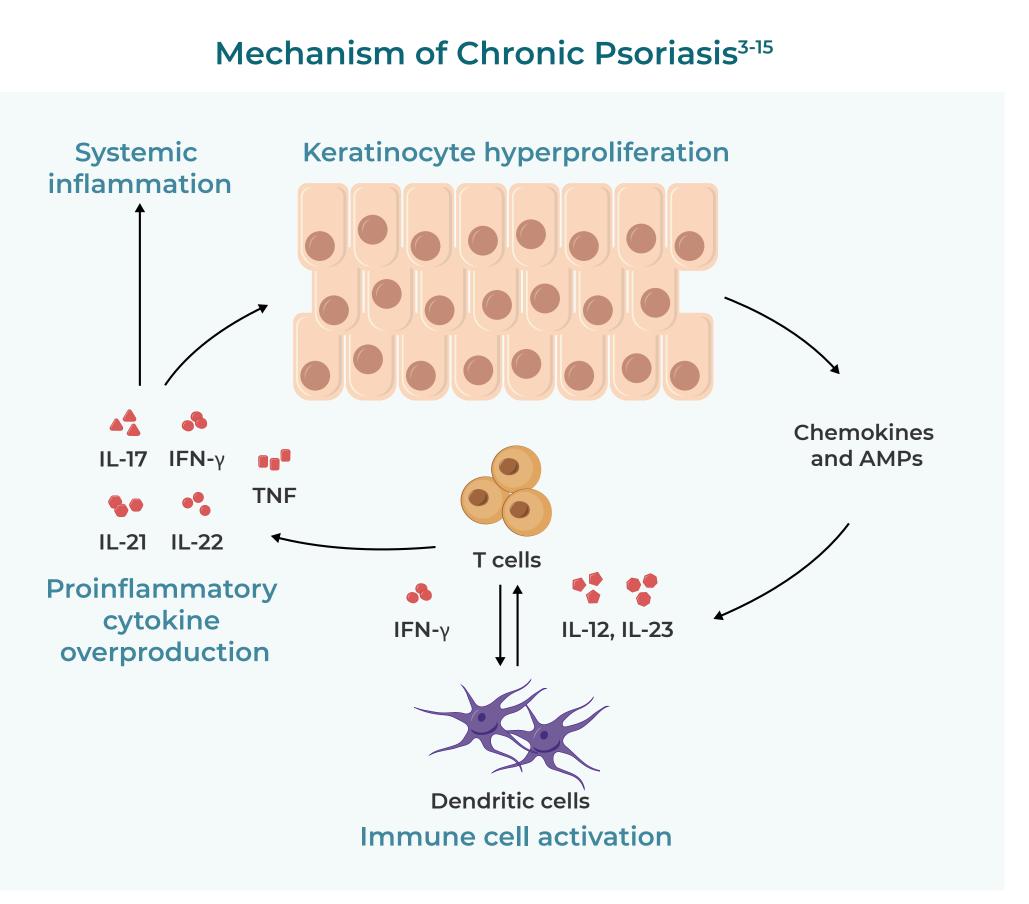
of patients with moderate psoriasis experience itch^{12,†}





Psoriasis, a Systemic Disease

- Psoriasis is the result of a **sustained proinflammatory response** regulated by a complex signaling pathway¹³⁻¹⁵
- The sustained inflammatory response results in **skin plaques** that are hallmark features of psoriasis³
- Patients with psoriasis also have elevated levels of proinflammatory cytokines circulating in the serum, driving systemic inflammation^{3,13,16}
- Several **pathogenic mediators** of psoriasis are also implicated in **psoriatic arthritis**¹³
- Up to 30% of all patients with psoriasis may have psoriatic arthritis¹





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Assessing Psoriasis Severity

The Classification of Psoriasis Severity by the Commonly Used Conventional Clinical Measures Can Be Incongruent With the Patients' Perception of Their Disease Severity^{6,17}

• This disconnect may be because of the inability of conventional clinical measures to capture certain factors that contribute to disease severity^{1,3,6}

Factors Assessed by Conventional Clinical Measures^{3,18-20}

	BSA	PASI	sPGA
Area of skin affected			×
Severity of lesions	×		
Differential impact of special areas (eg, scalp)	X	×	×
Differential impact of symptoms (eg, itch)	×	×	×
Patient-reported outcomes	×	×	×
Patient perspectives	×	×	×

*In a 2015 online survey of 150 US dermatologists; †MAPP was a population-based survey of 3,426 patients and 781 physicians in North America and Europe that aimed to determine the impact of psoriasis and psoriatic arthritis on HRQoL and to identify unmet treatment needs; [‡]Moderate psoriasis is defined as a BSA of 4%–10%. sPGA = static Physician's Global Assessment.





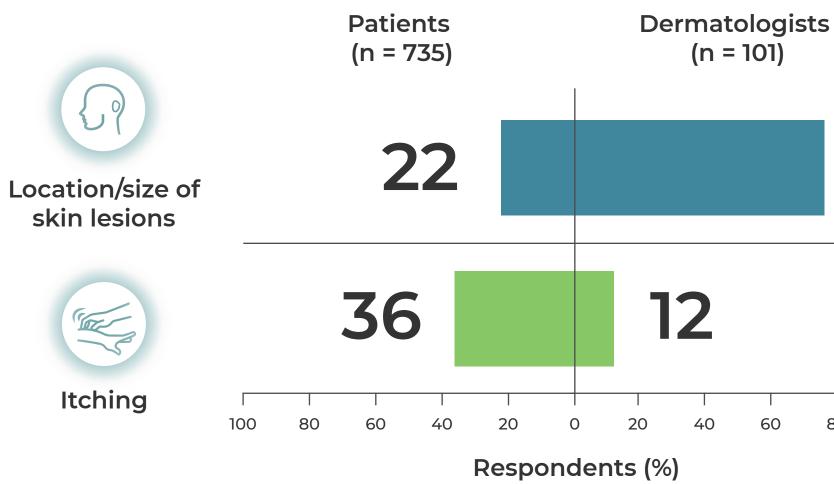


The Importance of Patient Perspectives

Patients and HCPs May Not Always Be Aligned on What Aspects of Psoriasis Contribute Most to Disease Severity²¹

• Drivers of disease severity, such as itch, may be underappreciated²¹

Perception of Top Factors Contributing to Disease Severity^{21,*}



*MAPP was a population-based survey of 3,426 patients and 781 physicians in North America and Europe that aimed to determine the impact of patient and dermatologist perspectives on the diagnosis and ongoing management of patients with psoriasis and psoriatic arthritis. A subanalysis of the US population included in the survey was performed where 1,005 patients and 201 physicians were included; †In a 2015 online survey of 150 US dermatologists.

HCP = healthcare professional.

76

< 50%

of US dermatologists consider patient assessment of their disease when determining whether a patient has moderate psoriasis^{17,†}

80 100



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Guidelines

Recent guidelines recommend looking beyond skin involvement and taking other factors into account when assessing disease severity, such as:¹⁻³



Involvement of special areas

Treatment history





Impact on QoL





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