

# PLAQUE PSORIASIS



## About Plaque Psoriasis

Psoriasis is a complex and chronic inflammatory disease caused by dysfunction of the immune system.<sup>1</sup> Symptoms often start between ages 15 and 25, but it can start at any age.<sup>1</sup>

### Psoriasis impacts over <sup>2</sup>

**8 million**  
AMERICANS



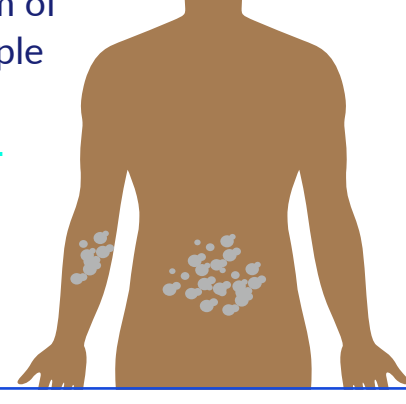
**125 million**  
WORLDWIDE



90%  
90%  
90%

Plaque psoriasis is the most common form of psoriasis, affecting about **80–90%** of people with psoriasis.<sup>3</sup>

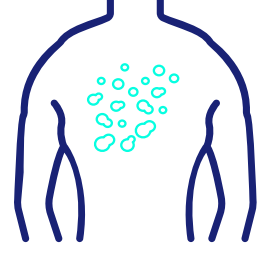
Plaque psoriasis can be itchy, painful, and disfiguring and is characterized by raised, patches of skin, often with silvery scales.<sup>1</sup>



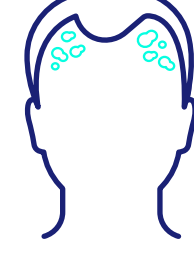
### Signs and symptoms vary, and plaque psoriasis can appear anywhere on the body but is most common on:<sup>4</sup>



ELBOWS



TORSO



SCALP



LEGS/KNEES

## The Biology of Psoriasis

The exact cause of psoriasis is not known, but risk factors and triggers include genetics or a family history of psoriasis, stress, smoking, heavy alcohol consumption and cold or dry weather conditions.<sup>5</sup>



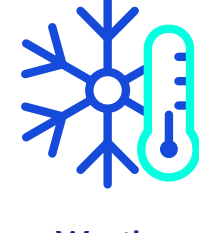
Genetics or family history



Stress



Smoking or heavy alcohol consumption



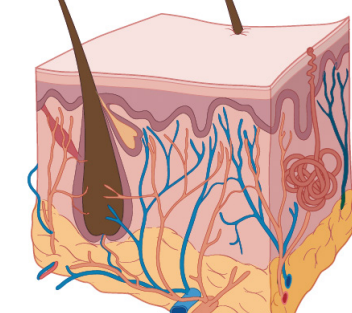
Weather (e.g., cold, dry conditions)

One protein that is thought to play an important role in plaque psoriasis is the **aryl hydrocarbon receptor (AhR)**, which is found throughout the body, including in immune and skin cells.<sup>6</sup>

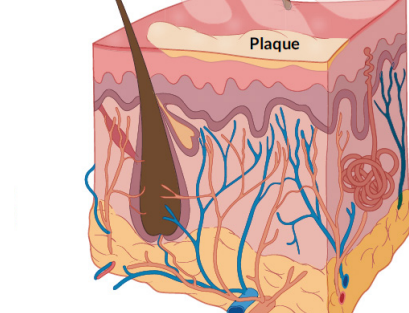
aryl hydrocarbon receptor (AhR)  
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**AhR** is an important component of ensuring that the protective skin barrier is maintained and that immune cells do their jobs properly.

**Higher levels of AhR** have been noted in patients with plaque psoriasis, which could lead to an increase in immune cells associated with plaque psoriasis and a decrease in proteins that help to maintain the normal skin barrier.

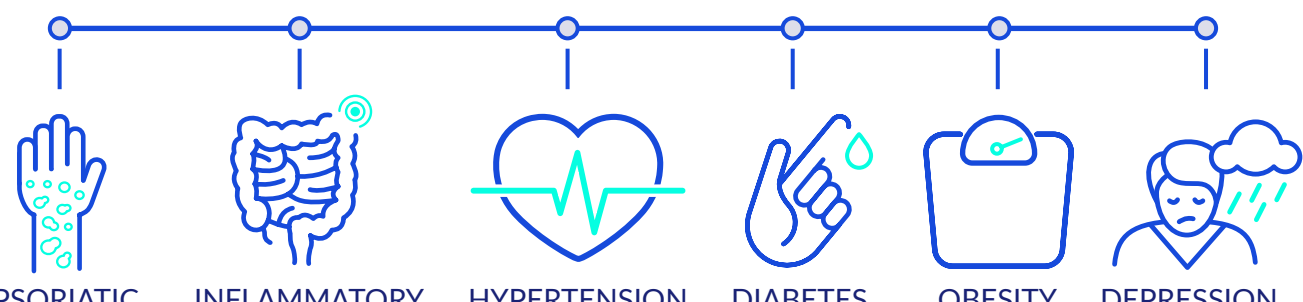


Normal, healthy skin



Psoriasis and inflammation

### Plaque psoriasis can also be associated with other health problems<sup>3</sup>



In addition to physical symptoms, psoriasis can have a significant impact on a person's quality of life and psychological health.<sup>7</sup>

## The Unmet Need



Psoriasis treatments are not “one-size-fits-all.” When it comes to finding treatments that work, many people with psoriasis endure a frustrating trial-and-error process.<sup>8,9</sup>



Treatment approaches depend on the specific needs of the individual, but most of those who are new to treatment start with topical corticosteroids, which are the current standard of care.<sup>10</sup>



If topical corticosteroids don't work, patients with psoriasis and their healthcare providers may turn to other treatment options, including non-steroidal prescription topicals, over-the-counter topicals, phototherapy and/or an oral or biologic medication; some of these treatments may be prescribed in combination.<sup>9,11</sup>

Recently, non-steroidal topical treatments have shown promise in treating patients with plaque psoriasis.

# WE ARE ALL IN ON SKIN

Dermavant Sciences, a subsidiary of Roivant Sciences, is a biopharmaceutical company committed to fostering unprecedented change and unparalleled impact in immuno-dermatology. Our mission is to make healthier skin a reality for the millions of people around the world living with chronic skin conditions. That's why we're hard at work developing novel treatments that deliver groundbreaking science exactly where patients need it — **their skin.**

Because skin is more than superficial — **it's where we live every moment of every day.**

### REFERENCES

- 1 National Psoriasis Foundation. About psoriasis. Available at: <https://www.psoriasis.org/about-psoriasis/>.
- 2 National Psoriasis Foundation. Psoriasis statistics. Available at: <https://www.psoriasis.org/psoriasis-statistics/>.
- 3 Menter A, Gottlieb A, Feldman SR, et al. Guidelines of care for the management of psoriasis and psoriatic arthritis. *J Am Acad Dermatol*. 2008;58(5), pp.826-850.
- 4 National Psoriasis Foundation. Plaque psoriasis. Available at: <https://www.psoriasis.org/plaque/>.
- 5 Mayo Clinic. Psoriasis. Available at: <https://www.mayoclinic.org/diseases-conditions/psoriasis/symptoms-causes/syc-20355840>.
- 6 Bissonnette R, Stein Gold L, Rubenstein DS, Tallman AM, Armstrong A. Tapinarof in the treatment of psoriasis: A review of the unique mechanism of action of a novel therapeutic aryl hydrocarbon receptor-modulating agent. *J Am Acad Dermatol*. 2021 Apr;84(4):1059-1067. doi: 10.1016/j.jaad.2020.10.085.
- 7 Mukhtar R, Choi J, Koo J. Quality-of-life issues in psoriasis. *J Am Acad Dermatol*. 2003;49(2 Suppl):S57-61.
- 8 Schaarschmidt M, Schmieder A, Umar N, et al. Patient preferences for psoriasis treatments: process characteristics can outweigh outcome attributes. *Arch Dermatol*. 2011;147(11):1285-1294.
- 9 National Psoriasis Foundation. Treatments for psoriatic disease. Available at: <https://www.psoriasis.org/treatments-for-psoriatic-disease/>.
- 10 National Psoriasis Foundation. Topicals. Available at: <https://www.psoriasis.org/topical-treatments/>.
- 11 Wu JJ, Lu M, Veverka KA, Smulders M, Papademetriou E, Yu J, Feldman SR. The journey for US psoriasis patients prescribed a topical: a retrospective database evaluation of patient progression to oral and/or biologic treatment. *J Dermatolog Treat*. 2019 Aug;30(5):446-453. doi: 10.1080/09546634.2018.1529386.