Boehringer Ingelheim

Palmoplantar Pustulosis (PPP): a rare and chronic autoinflammatory skin disease

WHAT IS PPP?

PPP is a chronic, autoinflammatory skin disease. It is **distinct from the more common plague psoriasis** but as many as a quarter of people with PPP also have concomitant psoriasis1-3

PPP is characterized by blisters of non-infectious, sterile pustules on the palms of the hands and soles of the feet, surrounded by red patches of skin. When the blisters resolve, they turn brown, peel off, and form a crust⁴

Once developed, PPP is a chronic disease that may persist for decades^{5,6}

PPP is not contagious and cannot be spread from person to person



WHO HAS PPP?

PPP is a rare and chronic autoinflammatory skin disease. Estimated prevalence of PPP ranges from 0.9-9.1 per 10,000 people worldwide⁷

Anybody can develop PPP, but the majority of cases occur in women (82%-92%)²



Up to 3-4% of psoriasis cases present with concomitant PPP⁸



WHAT CAUSES PPP?



Smoking

Overexposure to sunlight



Tonsillitis, Genetics dental infections sinusitis



The exact cause is unknown, but factors that can trigger PPP flares include:^{2,9-11}

Reaction to a TNF- α inhibitor used to treat psoriasis



Friction caused by wearing shoes





Metal sensitivity, mainly nickel

Periods of stress

and



INFLAMMATION OF THE PALMS AND SOLES CAN SEVERELY IMPACT QUALITY OF LIFE^{8,13-17}

PPP can lead to significant functional disability and is associated with substantial impairment in quality of life



References: 1. Palmoplantar Pustulosis. Patient Information Leaflet. British Association of Dermatologists. December 2018. Available at: http://www.bad.org.uk/shared/get-file.ashx?id=172&item type=document. Last accessed September 2019. 2. de Waal AC, et al. Pustulosis palmoplantaris is a disease distinct from psoriasis. *Journal of Dermatological Treatment*. 2011;22:2, 102-105. 3. Palmoplantari Pustulosis on Hands and Feet. WebMD article. 2018. Available at: <u>https://www.webmd.com/skin-problems-and-treatments/psoriasis/palmoplantar-pustulosis#2</u>. Last accessed September 2019. 4. Navarini AA, Burden AD, Capon F, *et al.* European consensus statement on phenotypes of pustular psoriasis. *Journal of the European Academy of Dermatology and Venereology.* 2017; 31(11): 1792-9. 5. Chalmers R, *et al.* Interventions for chronic palmoplantar pustulosis. Cochrane Database of Systematic Reviews 2006, Issue 1. Art. No.: CD001433. 6. Raposo I, Torres T. Palmoplantar psoriasis and palmoplantar pustulosis: current treatment and future prospects. Journal of the American Academy of Dermatology. 2016; 17(4): 349-58. 7. Boehringer Ingelheim. PPP prevalence. Date on file. April 2019. 8. Miceli A, et al. Palmoplantar Psoriasis. [Updated 2019] un 3]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2019] an. Available from: https://www.ncbi.nlm.nih.gov/books/ <u>NBK448142</u>/ 9. Benjegerdes KE, *et al.* Pustular psoriasis: pathophysiology and current treatment perspectives. *Psoriasis: Targets and Therapy* 2016;6:131-144. **10**. Mössner R, *et al.* The genetic basis for most patients with pustular skin disease remains elusive. *British Journal of Dermatology* 2018;178(3):740-748. **11**. Twelves S, *et al.* Clinical and genetic differences between pustular psoriasis subtypes. *The Journal of Allergy and Clinical Immunology*. 2019; 143(3):1021-1026. **12**. Gianfaldoni S, *et al.* Pustular Palmoplantar Psoriasis Successfully Treated with Nb-UVB Monochromatic Excimer Light: A Case-Report. Open Access Maced J Med Sci. 2017;5(4):462–466. Published 2017 Jul 19. 13. Piraccini BM, et al. Pustular psoriasis of the nails: treatment and long-term follow-up of 46 patients. British Journal of Dermatology 2001;144:1000-5. 14. Sampogna F, et al. Measuring quality of life of patients with different clinical types of psoriasis using the SF-36. British Journal of Dermatology 2006;154:844-9. Farley E, et al. Palmoplantar psoriasis: a phenotypical and clinical review with introduction of a new quality-of-life assessment tool. Journal of the American Academy of Dermatology. 2009;60:1024-31.
Chung J, et al. Palmoplantar psoriasis is associated with greater impairment of health-related quality of life compared to moderate-to-severe plaque psoriasis. Journal of the American Academy of Dermatology. 2014;71(4):623-632.
Golpour M, et al. Depression and Anxiety Disorders among Patients with Psoriasis: A Hospital-Based Case-Control Study. 2012;2012:381905.