

DEPARTMENT: DERMATOLOGY DILEMMAS

Psoriasis

An overview and update

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Psoriasis: An overview and update

By Karen Limaye, MSN, FNP-C, DCNP

Psoriasis is a hereditary, T helper cell 1 mediated inflammatory papulosquamous disease. It is most likely transferred dominantly with variable penetrance. It is generally believed that an environmental trigger acts as an antigen-presenting cell to activate 1 of over 30 psoriasis susceptibility genes. This is most evident in acuteonset guttate psoriasis, which is associated with Streptococcus infection.

people of European and Scandinavian decent and affects 2% of the global population. The prevalence appears to be greater in countries with higher latitudes. According to the National Health and Nutrition Examination Survey, 3.2% of the U.S. adult population is afflicted with psoriasis ounting for 7.2 million people.1 The genetic variation in the immune pathway may help to explain the various psoriasis presentations and differences in severity. Environmental factors contribute to both disease predisposition and exacerbations. For example, smoking exacerbates psoriasis by increasing Th17 cell levels nd may hinder treatment response.2 Patients with psoriasis typically experience exacerbation of their disease during life stress, some Beta-blockers, antimalarial agents, and lithium have all been documented to exacerbate psoriasis. The use of systemic corticosteroids in patients with psoriasis can abate the disease, but once the corticosteroids are

discontinued, patients frequently rebound with an upsurge of their psoriasis, often with more refractory forms of psoriasis, such as erythrodermic or pustular psoriasis.3 For this reason, systemic corticosteroid use is not advised for patients with psoriasis.

Patients with psoriasis are at a greater risk than the general population for developing heart diseas diabetes, and cancer. 45 Current recommendations advocate that patients with psoriasis be screened for metabolic syndrome and cardiovascular risk factors. Elevated levels of free fatty acids seen in psoriasis patients contribute to increased tumor necrosis factor-alpha (TNFalpha) and interleukin-6 (IL-6), leading to impaired glucose tolerance and apoptosis of pancreatic beta-islet cells, which increase the risk of type 2 diabetes and metabolic syndrome An increase in C-reactive protein due and/or joints in psoriasis patients is thought to contribute to atherosclerosis, which is based on inflammation.3 Patients with severe psoriasis are at greatest risk, and a stronger association exists with psoriatic arthritis.26,9

A recent article by Orgaz-Molina and colleagues found a positive association between decreased illnesses, and with certain medications. 25-hydroxyvitamin D serum levels and demarcated patches or plaques in skin metabolic disease in cutaneous psoriasis patients.* These findings suggest that psoriasis patients would benefit from oral supplementation with vitamin D, which possesses anti-inflammatory properties.⁶ There perianal skin and gluteal cleft.

have also been some case reports of improvement in cutaneous psoriasis as well as a decrease in cholesterol with vitamin D supplementation. Of note, systemic treatment for psoriasis without vitamin D supplementation did not improve 25-hydroxyvitamin D levels, and there is no current dosage recommendation for patients with psoriasis.6

Types of psoriasis

Chronic plaque psoriasis is the most common morphological variant of psoriasis. It presents with well-demar cated erythematous plaques that are covered with a thick, silvery/white adherent scale. Scraping of the scale frequently causes pinpoint bleeding (Auspitz sign) and is pathognon for psoriasis (see Chronic plaque psoriasis). Chronic plaque psoriasis tends to be symmetrical, and it mo often affects the occiput of the scalp, the postauricular space, the elbe knees, shins, and gluteal cleft. It can be confined to a minute area or be widespread, involving a considerable percentage of the body surface area (BSA). Disease severity can also differ among individual patients, with oscillations in the course throughout the lifespan.

Inverse psoriasis presents as smooth, erythematous, wellfolds that may have a slightly macerated surface. These areas include the axillae, the inframam mary, abdominal, genital, and retroauricular folds as well as the

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