

Make the Diagnosis

28-year-old female with no significant medical history presented for the evaluation and treatment of persistent acne. Upon questioning, the patient noted an asymptomatic eruption on her palms consistently induced after exposure to water. The patient denied any significant pain associated with the eruption and had no history of hyperhidrosis. Her only medication was an oral contraceptive, and there were no known drug allergies. She denied any family history of similar complaints. On exam, white, slightly translucent papules on the palms were noted within 10 min of water exposure. The palmar skin became edematous and excessive wrinkling was observed. The eruption resolved about 10 min after drying her hands with no significant sequelae.



Make the Diagnosis:

A. Dyshidrotic eczema

B. Aquagenic wrinkling of the palms

C. Aquagenic urticaria

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Dermatology News



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MDedge Dermatology News.

Make the Diagnosis Aquagenic wrinkling of the palms

BY SIMON BIRK, AND ADAM J. MAMELAK, MD

quagenic wrinkling of the palms (AWP) is a condition characterized by excessive wrinkling and sudden appearance or aggravation of white papules and plaques localized to the palms upon exposure to water. This eruption can be accompanied by a mild burning or tingling sensation, which will







Dr. Mamelak

subside with the rest of the symptoms in minutes to hours after drying.1

AWP is most frequently associated with cystic fibrosis (CF).2 It can be observed in up to 80% of CF patients and is considered a clinical sign of the disease. AWP can be present in CF carriers to a lesser extent,^{2,3} and has also been associated with focal hyperhidrosis, atopic dermatitis, Raynaud phenomenon, and COX-2 inhibitor use.4

While a definitive cause is unknown,

it is thought that AWP is caused by dysregulation of sweat glands in the palms through increased expression of aquaporin, a protein crucial in the transport of water between cells.5

AWP is quite rare and benign in nature. However, because of its strong association with CF, genetic screening should be considered in asymptomatic patients. Our patient had been screened in the past and is not a CF carrier. Often, the itching or burning associated with CF is mild and easily controlled. The patient was placed on low-dose isotretinoin for treatment of her acne. Interestingly, the patient claimed her eruption no longer appeared after starting isotretinoin therapy. To our knowledge, this is

the first reported case of AWP resolving with isotretinoin use.

This case and photo were submitted by Mr. Birk, University of Texas, Austin, Texas; and Dr. Mamelak, Sanova Dermatology, in Austin. Donna Bilu Martin, MD, edited the column.



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