



MINERVA

An unusual palmar eruption

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A 21 year old woman presented with episodic palmar itching, stinging, and skin peeling after brief exposure to water. Palmar water immersion in the dermatology clinic resulted in multiple whitish papules and exaggerated wrinkling after seven minutes, consistent with aquagenic palmar wrinkling ().



Aquagenic palmar wrinkling is a clinical diagnosis demonstrated by reproducible signs on water immersion. Its pathogenesis has been attributed to sweat electrolyte dysfunction. It is common in cystic fibrosis (especially homozygous DF508) but also occurs in cystic fibrosis carriers¹; referral to specialist genetics services for testing is therefore essential. Aquagenic palmar wrinkling can be induced by medication or, as in our patient, can be idiopathic. Treatments include topical antiperspirants and iontophoresis.²

Patient consent obtained.

- 1 Gild R, Clay CD, Morey S. Aquagenic wrinkling of the palms in cystic fibrosis and the cystic fibrosis carrier state: a case-control study. *Br J Dermatol* 2010;163:1082-4. doi:10.1111/j.1365-2133.2010.09914.x20560957
- 2 Tchernev G, Semkova K, Cardoso JC, Ananiev JJ, Wollina U. Aquagenic keratoderma. Two new case reports and a new hypothesis. *Indian Dermatol Online J* 2014;5:30-3. doi:10.4103/2229-5178.12602524616851

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