Correspondence: Image Gallery

Chilblain lesions after COVID-19 mRNA vaccine

DOI: 10.1111/bjd.20060



DEAR EDITOR, A 42-year-old man developed nonpainful erythematous-to-purplish patches located on his distal phalanges and nail beds (Figure) after the first dose of the anti-COVID-19 vaccine (+ 12 days, Pfizer-BioNTech COVID-19, BNT162b2) along with an acrocyanosis of the hands. Although negative antibodies do not preclude a previous exposure to the virus, blood and swab tests were negative for COVID-19 infection and thrombophilic/autoimmune conditions. After the second jab (+ 21 days) no worsening of the lesions or other onset of symptoms were observed. A diagnosis of possible severe adverse event due to vaccine administration was made.1 Chilblain lesions have been described in patients with COVID-19 and may be due to an abnormal inflammatory response. Although not reported in clinical trials,² vaccination may have promoted an immunological reaction leading to vascular swelling and perniosis similar to what has been observed after COVID-19 infection.

A. Pileri , 1,2 A. Guglielmo, 1,2 B. Raone and A. Patrizi 1,2

¹Dermatology-IRCCS Policlinico di Sant'Orsola, Department of Experimental, Diagnostic and Specialty Medicine, Alma Mater Studiorum, University of Bologna, Italy and 2 Dermatology Unit, Department of Experimental, Diagnostic and Specialty Medicine, University of Bologna, Italy Email: alessandropileri@hotmail.it

References

- 1 Naranjo CA, Busto U, Sellers EM et al. A method for estimating the probability of adverse drug reactions. Clin Pharmacol Ther 1981; 30:239-45.
- 2 Polack FP, Thomas SJ, Kitchin N et al. Safety and efficacy of the BNT162b2 mRNA Covid-19 vaccine. N Engl J Med 2020; 383:2603– 15.

Conflicts of interest: none to declare.

Funding: none.