Images in Rheumatology

A Case of Chilblains-like Lesions Post SARS-CoV-2 Vaccine?

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SARS-CoV-2 has been described to cause “COVID [coronavirus disease] toes,” a chilblains-like syndrome.\(^1\)\(^,\)\(^2\)\(^,\)\(^3\)

A 33-year-old White woman was evaluated in the hospital for painful new-onset blue and purple nodules on the tips of 3 fingers and 2 toes, 7 days after receiving the Moderna SARS-CoV-2 vaccine (Figure 1). She was admitted to the hospital for evaluation and her SARS-CoV-2 PCR was negative twice. She had no fevers, chest pain, myalgias or arthralgias, or shortness of breath. Her past medical history is notable only for mild persistent asthma, for which she uses an inhaled corticosteroid. She had no personal or family history of autoimmune disease. She continued to have normal blood work with negative inflammatory markers and autoimmune serologies. Skin biopsies (Figure 2) were obtained from the left thumb and right index finger showing the following on histopathology review: “Superficial and mid-dermal perivascular cuffed lymphocytic infiltrate. Mild superficial dermal edema is present. No interface changes are present. There is no evidence of vasculitis or vasculopathy. Initial and multiple deeper sections were examined. Direct immunofluorescence of the skin showed no specific immunoreactants detected.”

The patient presented with symptoms similar to chilblains, a lymphocytic dermatitis. Her fingers healed, and she has weaned off the corticosteroids. She will not get the second vaccine dose; however, she did have positive COVID-19 IgGs present 1 month post vaccine. The chilblains-like lesions suggest that she had an antibody response from either 1 vaccine dose or a previous PCR-negative COVID-19 infection.\(^4\) The understanding of the SARS-CoV-2 virus and the vaccines against it is a rapidly evolving landscape.\(^5\)

REFERENCES