

Symmetric periorbital edema after mRNA COVID-19 vaccine

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A 42-year-old Caucasian female patient presented with symmetric, asymptomatic, periorbital angioedema (Fig. 1) that appeared 24 hours after the second dose of the Moderna mRNA COVID-19 vaccine. She was injected with the hyaluronic acid dermal filler Juvéderm Volite in the glabella and periorbital area three months earlier and underwent a botulinum toxin session in the forehead, glabella, and crow's feet with Vistabel six months earlier. No present or previous history of allergy or concomitant diseases was reported. Cetirizine dihydrochloride 3 × 10 mg and cold compresses resulted in the complete resolution of the symptoms within three days.

Reactions to the Moderna vaccine possibly related to the dermal filler placement are rare and have an unknown pathogenesis. Three out of 15,184 patients developed facial or lip swelling after mRNA vaccine [1]. These



Figure 1: Symmetric periorbital edema developed 24 hours after the second dose of the Moderna mRNA COVID-19 vaccine.

reactions may be immunologically triggered by viral or bacterial illness and vaccinations, including allergies to vaccine ingredients such as polyethylene glycol [2].

ACKNOWLEDGMENTS

The patient described by this article gave written informed consent to the publication of their case details.

Consent

The examination of the patient was conducted according to the principles of the Declaration of Helsinki.

The authors certify that they have obtained all appropriate patient consent forms, in which the patients gave their consent for images and other clinical information to be included in the journal. The patients understand that their names and initials will not be published and due effort will be made to conceal their identity, but that anonymity cannot be guaranteed.

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