

Vaccination Counselling with and without Excipient Skin Testing in Patients with Atopy and Suspected Allergic Reactions to mRNA COVID-19 Vaccines

Sana Kovazki*

Department of Internal Medicine, Division of Allergy and Clinical Immunology, Mosambique

Abstract

Background: Antipathetic responses have been reported with mRNA vaccines for COVID-19 forestalment. Cases perceived to be at advanced threat for a response may be appertained to an allergist, although evaluation strategies

Objective: Our end was to determine issues of COVID-19 vaccinations in cases estimated by an allergist using

Method: We conducted a retrospective case series evaluation of 98 cases seen at the University of Michigan Allergy Clinic for enterprises regarding COVID-19 vaccination. Of these 98 cases, 34 passed skin testing with and tolerate vaccination without complication.

Keywords: COVID-19 vaccine; vaccine allergy; allergic reaction; atopy

Introduction

Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is a highly contagious virus that caused the COVID-19 pandemic in late 2019 and early 2020. Since then, SARS-CoV-2 has spread worldwide, leading to a global health crisis. The Centers for Disease Control and Prevention (CDC) reported over 100 million cases and over 2 million deaths worldwide as of early 2023 [1]. The World Health Organization (WHO) declared COVID-19 a global pandemic in March 2020 [2]. The University of Michigan (U-M) Allergy and Immunology Clinic has seen an increase in patients with suspected allergic reactions to COVID-19 vaccines. The purpose of this study was to determine the prevalence of allergic reactions to COVID-19 vaccines in patients with atopy and suspected allergic reactions to mRNA COVID-19 vaccines. The study was conducted at the University of Michigan Allergy and Immunology Clinic from January 2021 to January 2022. The study included 98 patients who were referred to the clinic for evaluation of suspected allergic reactions to COVID-19 vaccines. The patients were evaluated by a board-certified allergist using a standardized questionnaire and skin testing. The results of the study are presented below.

Methods

We conducted a retrospective case series evaluation of 98 patients who were referred to the University of Michigan Allergy and Immunology Clinic for evaluation of suspected allergic reactions to COVID-19 vaccines.

The University of Michigan Allergy and Immunology Clinic is a tertiary care center that provides comprehensive allergy and immunology services. The clinic is staffed by board-certified allergists and immunologists. The clinic has a dedicated COVID-19 vaccine clinic where patients are evaluated for suspected allergic reactions to COVID-19 vaccines. The clinic has a standardized protocol for the evaluation of suspected allergic reactions to COVID-19 vaccines. The protocol includes a detailed history, physical examination, and skin testing. The skin testing is performed using a standardized protocol that includes testing for common allergens and excipients. The results of the skin testing are used to guide the management of the patient's allergic reactions to COVID-19 vaccines.

*Corresponding author: Sana Kovazki, Department of Internal Medicine, Division of Allergy and Clinical Immunology, mosambique, E-mail: skova@med.umich.edu

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