## Pfizer-Biontech COVID-19 Vaccine Allergy

(As of January 3, 2021)

**Background:** There were 2 reports of anaphylaxis and 1 report of allergic reaction following the PIfizer-Biontech COVID-19 vaccine immunization in England. Following these incidences, the Medicines and Healthcare Products Regulatory Agency (MHRA) of Great Britain issued the following warnings:

- 1) Any person with a history of anaphylaxis to a vaccine, medicine or food should not receive the vaccine;
- 2) Any person who has anaphylaxis to the first dose of the vaccine should not receive the second booster dose which is scheduled 3 weeks after the first dose.<sup>1</sup>

**Current (December 2020) United States FDA recommendation regarding absolute contraindication (**<u>should not get the</u> <u>vaccine</u>): the specific vaccine (Pfizer- Biontech COVID 19 vaccine) allergy is the only medical reason not to get the vaccine:

- 1) Any person who had a severe allergic reaction after a previous dose of this vaccine;
- 2) Any person who had a <u>severe</u> allergic reaction to any ingredient of this vaccine (mRNA, lipids ((4-hydroxybutyl)azanediyl)bis(hexane-6,1-diyl)bis(2-hexyldecanoate), 2 [(polyethylene glycol)-2000]-N,N-ditetradecylacetamide, 1,2-Distearoyl-sn-glycero-3-phosphocholine, and cholesterol), potassium chloride, monobasic potassium phosphate, sodium chloride, dibasic sodium phosphate dihydrate, and sucrose).<sup>2</sup>

## Current (December 2020 to January 2021) United States FDA recommendation regarding <u>precaution</u> for administering the Pfizer-Biontech COVID-19 vaccine in patients with allergy:

- 1) Waiting in a health care facility for 15 minutes if the patient has history of food, pet, insect, bee venom, fire ant, latex allergies;
- 2) Waiting in a health care facility for 30 minutes (or deferral of vaccination) if the patient has a history of anaphylaxis (more severe allergic reaction like problem breathing or passing out) to another vaccine or an injectable medication.<sup>3</sup>
- 3) These persons should not receive mRNA COVID-19 vaccination at this time unless they have been evaluated by an allergist-immunologist and it is determined that the person can safely receive the vaccine (e.g., under observation, in a setting with advanced medical care available).<sup>4</sup>

## Adverse effect (not allergy and not contraindication) for the Pfizer-Biontech COVID-19 Vaccine:

- injection site pain
- tiredness
- headache
- muscle pain
- chills
- joint pain
- fever
- injection site swelling
- injection site redness
- nausea

<sup>&</sup>lt;sup>1</sup> Confirmation of guidance to vaccination centres on managing allergic reactions following COVID-19 vaccination with the Pfizer/BioNTech vaccine - GOV.UK (<u>www.gov.uk</u>)

<sup>&</sup>lt;sup>2</sup> <u>https://www.fda.gov/media/144414/download</u>

<sup>&</sup>lt;sup>3</sup> <u>https://www.fda.gov/media/144414/download</u>

<sup>&</sup>lt;sup>4</sup> Interim Clinical Considerations for Use of Pfizer-BioNTech COVID-19 Vaccine | CDC (<u>Interim Clinical Considerations for Use of Pfizer-BioNTech COVID-19 Vaccine | CDC</u>)

- feeling unwell
- swollen lymph nodes (lymphadenopathy)

The above symptoms are expected occasional side effects after getting this type of COVID-19 vaccination and are not allergies or anaphylaxis. They are not contraindication for getting the second dose of the same vaccine.<sup>5</sup> **Opinion (Dr. Schuman Tam):**<sup>6</sup>

- 1) Everybody over 16 years of age, who wants to get the Plfizer-Biontech COVID-19 vaccine, should get it (note: priority is based on CDC recommendations);
- 2) Patients who have allergies in general may have a higher chance of having an allergic reaction to the PIfizer-Biontech COVID-19 vaccine just because they are prone to having allergies;
- 3) A person who has a history of mild allergy (like allergic rhinitis, asthma) or food allergy should be ok to get the vaccine, subject to a 15-minute waiting period in a healthcare facility equipped to treat them, in case of anaphylaxis;
- A person who has a history of anaphylaxis after receiving prior vaccination of any type or after receiving an injectable medication should be observed for 30 minutes in a healthcare facility equipped to treat them in case of anaphylaxis;
- 5) A person who has a history of anaphylaxis to the first dose of the PIfizer-Biontech COVID-19 vaccine or a history of anaphylaxis to any component of the vaccine should not receive the vaccine. In this special circumstance, <u>iN MY OPINION</u>, the patient should be referred to an allergy and immunology specialist for its administration under a desensitization method, if the administration of the vaccine is deemed absolutely necessary for the patient
- 6) The Pfizer-Biontech COVID-19 vaccine can be given to an allergic patient if the administration is given carefully, after evaluation of the patient and after discussion with the risk and benefits with the patient, by a physician experienced in dealing with drug allergy.

<sup>&</sup>lt;sup>5</sup> <u>https://www.fda.gov/media/144414/download</u>

<sup>&</sup>lt;sup>6</sup> **DISCLAIMER:** This document is intended to provide educational information only and IS ONLY PROVIDED AS A CONVENIENCE; it is not to be considered as a valid resource for information or contact or communication with a Asthma & Allergy Clinic of Marin and San Francisco, Inc. ("AASTHMA") physician, our practice or its staff. The information on this document is not intended or implied to be a substitute for professional medical advice, diagnosis or treatment. All content, including text and information, contained on or available through this document is for general information purposes only. AASTHMA makes no representation and assumes no responsibility for the accuracy of information contained on or available through this document, and such information is subject to change without notice. You are encouraged to confirm any information obtained from or through this document with other sources, and review all information regarding any medical condition or treatment with your physician. NEVER DISREGARD PROFESSIONAL MEDICAL ADVICE OR DELAY SEEKING MEDICAL TREATMENT BECAUSE OF SOMETHING YOU HAVE READ ON OR ACCESSED THROUGH THIS DOCUMENT. AASTHMA does not recommend, endorse or make any representation about the efficacy, appropriateness or suitability of any specific tests, products, procedures, treatments, services, opinions, health care providers or other information that may be contained on or available through this document. AASTHMA IS NOT RESPONSIBLE NOR LIABLE FOR ANY ADVICE, COURSE OF TREATMENT, DIAGNOSIS OR ANY OTHER INFORMATION OR SERVICES THAT YOU OBTAIN THROUGH THIS DOCUMENT.