

# New insights on cause of anaphylaxis following COVID-19 vaccination

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A medical assistant prepares a dose of a COVID-19 vaccine to be administered to a patient. Credit: Public domain image courtesy of Lisa Ferdinando, U.S. Department of Defense

On the first day of the UK campaign for COVID-19 vaccination, there were reports of two cases of anaphylaxis—a severe, potentially life-threatening allergic reaction—within minutes of administration of the Pfizer/BioNTech mRNA vaccine. Subsequently further cases of

suspected anaphylaxis to the Pfizer vaccine were reported.

A new report published in *Clinical & Experimental Allergy* reveals that an allergy to the ingredient polyethylene glycol (PEG) is a cause of anaphylaxis to the vaccine. However, this is in the [context](#) of millions of doses safely administered.

The authors note that very few people are allergic to PEG, and they provide a guide to identifying those who are at risk. "This [preliminary report](#) confirms PEG as a cause of anaphylaxis to the Pfizer/BioNTech vaccine, for the first time," they wrote. "COVID-19 vaccine anaphylaxis and PEG allergy are both rare, so proof of PEG as the cause in one case of vaccine anaphylaxis is important. However, it is important to emphasise that PEG allergy is rare and that COVID-19 vaccines remain safe."

**More information:** P Sellaturay et al, Polyethylene glycol (PEG) is a cause of anaphylaxis to the Pfizer/BioNTech mRNA COVID-19 vaccine, *Clinical & Experimental Allergy* (2021). [DOI: 10.1111/cea.13874](#)

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