Community management of patients with a history of allergy (pre-vaccination)¹

Proceed with vaccination

- previous allergic reaction (including anaphylaxis) to a food, insect sting and most medicines (where trigger has been identified)
- family history of allergies
- previous non-systemic reaction to a vaccine
- hypersensitivity to nonsteroidal antiinflammatory drugs (NSAIDs e.g., aspirin, ibuprofen)
- mastocytosis
- Proceed with vaccination as normal, according to local guidelines

Notes:

- All recipients of the Pfizer/BioNTech and Moderna vaccines should be kept for observation and monitored for a minimum of 15 minutes.
- Facilities for management of anaphylaxis should be available at all vaccination sites.
- Advice on recognition and management of anaphylaxis in vaccination settings has been issued by the **Resuscitation Council UK²**

Special precautions

- history of anaphylaxis to multiple, different drug classes, with the trigger unidentified (this may *indicate PEG allergy*)
- history of anaphylaxis to a vaccine, injected antibody preparation or a medicine likely to contain PEG (e.g., depot steroid injection, laxative)
- history of idiopathic anaphylaxis (could have undiagnosed PEG allergy)

allergy

- Do not give the Pfizer/BioNTech or Moderna vaccine (except on the advice of an allergy specialist)
- The Nuvaxovid (Novavax) vaccine can be used as an alternative (unless otherwise contra-indicated), particularly if an injected influenza vaccine has been previously tolerated⁴
- consider observation for 30 minutes if vaccination proceeds
- Discuss with the patient's local Allergy/Immunology service⁵ (if necessary)
- Use the NHS eRS system for advice and include completed questionnaires for drug allergy/idiopathic anaphylaxis⁵

Vaccination contra-indicated

- prior systemic allergic reaction to a COVID-19 vaccine
- for an mRNA-based COVID-19 vaccine \rightarrow prior allergic reaction to another mRNA vaccine
- prior allergic reaction to a component of the vaccine, including PEG

- Do not give vaccine in question
- Refer to Allergist
- Use the NHS e-referral system for the patient's local Allergy/Immunology service⁵

Greater Manchester

- Allergy Centre, Wythenshawe Hospital
- Immunology and Allergy Service, Manchester Royal Infirmary

Lancashire & South Cumbria

- Allergy and Clinical Immunology Service, Royal Preston Hospital Liverpool
- Immunology and Allergy Service, Royal Liverpool University Hospital

Salford

- Immunology and Allergy Service, Salford Royal Hospital
- 1. https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a. 12/02/2021; accessed 12/02/2021.
- www.resus.org.uk/about-us/news-and-events/rcuk-publishes-anaphylaxis-guidance-vaccination-settings 2.
- 3. PEG: polyethylene glycol or macrogol
- 4. The Novavax and AstraZeneca vaccines contain polysorbate 80, which may cross-react with PEG, but this is believed to affect only a small proportion of patients with PEG allergy; ~70% of injected influenza vaccines given in the UK contain polysorbate 80 Guidance for referral/advice to all Allergy/Immunology Services in the North West of England on page 2 of this document 5.

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- consider the possibility of PEG³

Community management of patients who had allergic reactions to a COVID-19 vaccine (post-vaccination)¹



Guidance for referral / advice to Allergy/Immunology, proformas & questionnaires

- Allergy Centre, Wythenshawe Hospital, Manchester
- Immunology and Allergy Service, Manchester Royal Infirmary, Manchester
- Immunology and Allergy Service, Salford Royal Hospital, Salford
- Allergy and Clinical Immunology Service, Royal Preston Hospital, Preston
- Immunology and Allergy Service, Royal Liverpool University Hospital, Liverpool

https://mft.nhs.uk/wythenshawe/services/respiratory-andallergy/allergy/

https://mft.nhs.uk/mri/services/clinical-immunology/

https://www.srft.nhs.uk/about-us/depts/clinimm/

https://www.lancsteachinghospitals.nhs.uk/allergy-clinicalimmunology-

https://www.rlbuht.nhs.uk/departments/medicalspecialisms/infection-and-immunology/clinical-immunology/

- 1. <u>https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a. 12/02/2021;</u> accessed 12/02/2021.
- 2. www.resus.org.uk/about-us/news-and-events/rcuk-publishes-anaphylaxis-guidance-vaccination-settings
- 3. PEG: polyethylene glycol or macrogol
- The Novavax and AstraZeneca vaccines contain polysorbate 80, which may cross-react with PEG, but this is believed to affect only a small proportion of patients with PEG allergy; ~70% of injected influenza vaccines given in the UK contain polysorbate 80
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5. Guidance for referral/advice to all Allergy/Immunolog NWACIN Guidance on management of COVID-19 vaccination and allergy