Centers for Disease Control and Prevention Center for Preparedness and Response



COVID-19 Vaccines: Update on Allergic Reactions, Contraindications, and Precautions

Clinician Outreach and Communication Activity (COCA) Webinar

Wednesday, December 30, 2020

Continuing Education

Continuing education will not be offered for this COCA Call.

To Ask a Question

- All participants joining us today are in listen-only mode.
- Using the Webinar System
 - Click the "Q&A" button.
 - Type your question in the "Q&A" box.
 - Submit your question.
- The video recording of this COCA Call will be posted at <u>https://emergency.cdc.gov/coca/calls/2020/callinfo_123020.asp</u> and available to view on-demand a few hours after the call ends.
- If you are a patient, please refer your questions to your healthcare provider.
- For media questions, please contact CDC Media Relations at 404-639-3286, or send an email to <u>media@cdc.gov</u>.

Centers for Disease Control and Prevention Center for Preparedness and Response



Today's First Presenter



Tom Shimabukuro, MD, MPH, MBA

CAPT, U.S. Public Health Service Vaccine Safety Team Lead COVID-19 Response Centers for Disease Control and Prevention Centers for Disease Control and Prevention Center for Preparedness and Response



Today's Second Presenter



Sarah Mbaeyi, MD, MPH CDR, U.S. Public Health Service Clinical Guidelines Team COVID-19 Response Centers for Disease Control and Prevention National Center for Immunization & Respiratory Diseases



Anaphylaxis following mRNA COVID-19 vaccination

Tom Shimabukuro, MD, MPH, MBA CDC COVID-19 Vaccine Task Force Vaccine Safety Team

Slides adapted from December 19-20, 2020 ACIP meeting presentation: Anaphylaxis Following m-RNA COVID-19 Vaccine Receipt, by Thomas Clark, MD, MPH, https://www.cdc.gov/vaccines/acip/meetings/downloads/slides-2020-12/slides-12-19/05-COVID-CLARK.pdf

Anaphylaxis following COVID-19 vaccination in the UK

- Dec 8, 2020 UK initiated vaccination with Pfizer-BioNTech COVID-19 vaccine
- Dec 9, 2020 UK authorities confirmed 2 cases of anaphylaxis after vaccination



https://www.gov.uk/government/news/confirmation-of-guidance-to-vaccination-centres-on-managing-allergic-reactions-following-covid-19-vaccination-with-the-pfizer-biontech-vaccine

ACIP recommendations and CDC guidance for COVID-19 vaccination

- ACIP considered anaphylaxis risk during deliberations on Pfizer-BioNTech COVID-19 vaccine during Dec 11-12, 2020 meetings
 - Issued interim recommendation for use of Pfizer-BioNTech COVID-19 vaccine
- CDC issued:
 - Interim Considerations: Preparing for the Potential Management of Anaphylaxis at COVID-19 Vaccination Sites

Anaphylaxis in the U.S. following COVID-19 vaccination

- Dec 19-20, 2020 ACIP meeting safety presentation:
 - CDC had identified 6 case reports of anaphylaxis following Pfizer-BioNTech vaccine meeting Brighton Collaboration criteria for anaphylaxis
 - Cases occurred within recommended observation window and were promptly treated
 - All suspect cases were notified through VAERS or CDC notification processes
 - As of December 19, 2020, 9:45am EST 272,001 doses of Pfizer-BioNTech COVID-19 vaccine had been administered

CDC actions

- Close coordination with FDA on safety monitoring
- Continued enhanced monitoring for anaphylaxis cases through the Vaccine Adverse Event Reporting System (VAERS)
- Case reviews and consultation with allergy/immunology experts to provide guidance on evaluation of persons following anaphylaxis to COVID-19 vaccine

Your role

Healthcare providers

- Recognize, respond, and report anaphylaxis following COVID-19 vaccination to VAERS
- Report adverse events to VAERS in accordance with FDA EUA reporting requirements and CDC guidance
- Participate in CDC's v-safe program yourself when you get vaccinated and encourage patients to participate in v-safe
- Communicate with patients on vaccine safety ✓

VAERS is the nation's early warning system for vaccine safety



VAERS

Vaccine Adverse Event Reporting System

co-managed by CDC and FDA

vaers.hhs.gov

A BOULT VAERS	Vaccine Adverse Event Reportin www.vaers.hhs.gov Report an Adverse Event	g System VAERS Data	89	Resources	V 1	Submit Follow-Up Information
 Have you had a reaction following a vaccination? 1. Contact your healthcare provider. 2. Report an Adverse Event using the VAERS online form or the new downloadable PDF. New? Important: If you are experiencing a medical emergency, seek immediate assistance from a healthcare provider or call 9-1-1. CDC and FDA do not provide individual medical treatment, advice, or diagnosis. If you need individual medical or health care advice, consult a qualified healthcare provider. 						
¿Ha tenido una reacción de 1. Contacte a su proveedor 2. Reporte una reacción ad VAERS en línea o la nuev	espués de recibir una vacuna? r de salud. Iversa utilizando el formulario de va versión PDF descargable. <i>Nuevo!</i>	What is VA	ERS?	54	2	



REPORT AN ADVERSE EVENT

Report significant adverse events after vaccination.



SEARCH VAERS DATA

Download VAERS Data and search the CDC WONDER database.



REVIEW RESOURCES

Find materials, publications, learning tools, and other resources.



SUBMIT FOLLOW-UP INFORMATION

Upload additional information related to VAERS reports.

How to report an adverse event to VAERS

- Go to vaers.hhs.gov
- Submit a report online

For help:

call 1-800-822-7967

email info@VAERS.org

video instructions https://youtu.be/sbCWh cQADFE



 For COVID-19, FDA will issue VAERS reporting requirements under EUA; in addition, CDC encourages reporting of any clinically important adverse event following immunization



Resources

cdc.gov/vsafe

cdc.gov/coronavirus/2019-ncov/vaccines/safety/troubleshooting

cdc.gov/coronavirus/2019-ncov/vaccines/safety/faq

CDC asks that:

- Healthcare providers help us get as many people to use v-safe as possible
 - give a one-page info sheet to patients at the time of vaccination
 - counsel patients on the importance of enrolling in v-safe
- CDC has created an electronic version of the v-safe info sheet for distribution to public health and healthcare partners



Get vaccinated. Get your smartphone. Get started with v-safe.

What is v-safe?

V-safe is a smartphone-based tool that uses text messaging and web surveys to provide personalized health check-ins after you receive a COVID-19 vaccination. Through v-safe, you can quickly tell CDC if you have any side effects after getting the COVID-19 vaccine. Depending on your answers, someone from CDC may call to check on you. And v-safe will remind you to get your second COVID-19 vaccine dose if you need one.

Your participation in CDC's *v-safe* makes a difference – it helps keep COVID-19 vaccines safe.

How can I participate?

Once you get a COVID-19 vaccine, you can enroll in *v-safe* using your smartphone. Participation is voluntary and you can opt out at any time. To opt out, simply text "STOP" when *v-safe* sends you a text message. You can also start *v-safe* again by texting "START."

How long do v-safe check-ins last?

During the first week after you get your vaccine, *v-safe* will send you a text message each day to ask how you are doing. Then you



Use your smartphone to tell CDC about any side effects after getting the COVID-19 vaccine. You'll also get reminders if you need a second vaccine dose.



How to report an AE to VAERS

- Go to vaers.hhs.gov and submit a report online
- For help: Call 1-800-822-7967 Email info@VAERS.org
- Video instructions <u>www.youtube.com/watch?v=sbCWhcQADFE</u>

V-safe resources

cdc.gov/vsafe

cdc.gov/coronavirus/2019-ncov/vaccines/safety/troubleshooting

cdc.gov/coronavirus/2019-ncov/vaccines/safety/faq

General safety information

cdc.gov/vaccinesafety/ensuringsafety/monitoring/vaers/index cdc.gov/coronavirus/2019-ncov/vaccines/safety

Contraindications and Precautions to mRNA COVID-19 vaccination



Updated contraindications and precautions to vaccination

- Recommendations apply to both Pfizer-BioNTech and Moderna COVID-19 vaccines
- Guidance may change as further information becomes available
- Definition of immediate allergic reaction to vaccine or medication:
 - Any hypersensitivity-related signs or symptoms such as urticaria, angioedema, respiratory distress (e.g., wheezing, stridor), or anaphylaxis that occur within four hours following administration



Contraindications to mRNA COVID-19 vaccination

Pfizer-BioNTech and Moderna COVID-19 vaccines

- Contraindications to either of the mRNA COVID-19 vaccines:
 - Severe allergic reaction (e.g., anaphylaxis) after a previous dose of an mRNA COVID-19 vaccine or to any of its components
 - Immediate allergic reaction of any severity to a previous dose of an mRNA COVID-19 vaccine or any of its components (including polyethylene glycol [PEG])*
 - Immediate allergic reaction of any severity to polysorbate (due to potential cross-reactive hypersensitivity with the vaccine ingredient PEG)*
- Persons with an immediate allergic reaction to the first dose of an mRNA vaccine should not receive additional doses of either of the mRNA COVID-19 vaccines

* These persons should not receive mRNA COVID-19 vaccination at this time unless they have been evaluated by an allergistimmunologist and it is determined that the person can safely receive the vaccine (e.g., under observation, in a setting with advanced medical care available).

Ingredients^{*} included in mRNA COVID-19 vaccines

Description	Pfizer-BioNTech	Moderna
mRNA	nucleoside-modified mRNA encoding the viral spike (S) glycoprotein of SARS-CoV-2	nucleoside-modified mRNA encoding the viral spike (S) glycoprotein of SARS-CoV-2
Lipids	2[(polyethylene glycol)-2000]-N,N- ditetradecylacetamide	PEG2000-DMG: 1,2-dimyristoyl-rac-glycerol, methoxypolyethylene glycol
	1,2-distearoyl-sn-glycero-3-phosphocholine	1,2-distearoyl-sn-glycero-3-phosphocholine
	cholesterol	cholesterol
	(4-hydroxybutyl)azanediyl)bis(hexane-6,1- diyl)bis(2-hexyldecanoate)	SM-102: heptadecan-9-yl 8-((2-hydroxyethyl) (6-oxo-6-(undecyloxy) hexyl) amino) octanoate
Salts,	potassium chloride	Tromethamine
sugars, buffers	monobasic potassium phosphate	Tromethamine hydrochloride
	sodium chloride	Acetic acid
	dibasic sodium phosphate dihydrate	Sodium acetate
	sucrose	sucrose

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	1,2-distearoyl-sn-glycero-3-phosphocholine	1,2-distearoyl-sn-glycero-3-phosphocholine
	cholesterol	cholesterol
	(4-hydroxybutyl)azanediyl)bis(hexane-6,1- diyl)bis(2-hexyldecanoate)	SM-102: heptadecan-9-yl 8-((2-hydroxyethyl) (6-oxo-6-(undecyloxy) hexyl) amino) octanoate
Salts,	potassium chloride	Tromethamine
sugars, buffers	monobasic potassium phosphate	Tromethamine hydrochloride
	sodium chloride	Acetic acid
	dibasic sodium phosphate dihydrate	Sodium acetate
	sucrose	sucrose

Polyethylene glycol (PEG)

- Primary ingredient in osmotic laxatives and oral bowel preparations for colonoscopy procedures
- Inactive ingredient or excipient in medications
- Used in a process called pegylation to improve therapeutic activity of some medications
- Cross-reactive hypersensitivity between PEG and polysorbates can occur
 Polysorbates are included as an excipient in some vaccines and other therapeutic agents

Information on whether a medication contains PEG, a PEG derivative, or polysorbates can be found in the package insert. The NIH <u>DailyMed database</u> may also be used as a resource Medications that contain PEG and/or polysorbate are described in the supplemental materials of Stone CA, et al. "Immediate hypersensitivity to polyethylene glycols and polysorbates: more common than we have recognized." *The Journal of Allergy and Clinical Immunology: In Practice* 7.5 (2019): 1533-1540. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6706272/pdf/nihms-1019221.pdf

Characteristic	Immediate allergic reactions (including anaphylaxis)	Vasovagal reaction	Vaccine side effects (local and systemic)
Timing after	Most occur within 15-30 minutes of	Most occur within 15 minutes	Median of 1 to 3 days after vaccination
vaccination	vaccination		(with most occurring day after
			vaccination)
Signs and symptoms			
Constitutional	Feeling of impending doom	Feeling warm or cold	Fever, chills, fatigue
Cutaneous	Skin symptoms present in ~90% of	Pallor, diaphoresis, clammy skin, sensation of	Pain, erythema or swelling at injection
	people with anaphylaxis, including	facial warmth	site; lymphadenopathy in same arm as
	pruritus, urticaria, flushing, angioedema		vaccination
Neurologic	Confusion, disorientation, dizziness,	Dizziness, lightheadedness, syncope (often	Headache
	lightheadedness, weakness, loss of	after prodromal symptoms for a few seconds	
	consciousness	or minutes), weakness, changes in vision	
		(such as spots of flickering lights, tunnel	
		vision), changes in hearing	
Respiratory	Shortness of breath, wheezing,	Variable; if accompanied by anxiety, may	N/A
	bronchospasm, stridor, hypoxia	have an elevated respiratory rate	
Cardiovascular	Hypotension, tachycardia	Variable; may have hypotension or	N/A
		bradycardia during syncopal event	
Gastrointestinal	Nausea, vomiting, abdominal cramps,	Nausea, vomiting	Vomiting or diarrhea may occur
	diarrhea		
Musculoskeletal	N/A	N/A	Myalgia, arthralgia
Vaccine recommendation	ons		
Receive 2 nd dose of	No	Yes	Yes
mRNA COVID-19			

Characteristic	Immediate allergic reactions (including	Vasovagal reaction	Vaccine side effects (local and systemic)	
	anaphylaxis)	Vasovagarreaction	vaccine side effects (local and systemic)	
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	diarrhea		
Musculoskeletal	N/A	N/A	Myalgia, arthralgia
Vaccine recommendations			
Receive 2 nd dose of	No	Yes	Yes
mRNA COVID-19			

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Gastrointestinal	Nausea, vomiting, abdominal cramps,	Nausea, vomiting	Vomiting or diarrhea may occur
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Musculoskeletal	N/A	N/A	Myalgia, arthralgia
Vaccine recommendations			
Receive 2 nd dose of	No	Yes	Yes
mRNA COVID-19			

Precautions to mRNA COVID-19 vaccines

Pfizer-BioNTech and Moderna COVID-19 vaccines

- Any immediate allergic reaction to any other vaccine or injectable therapy (i.e., intramuscular, intravenous, or subcutaneous vaccines or therapies not related to a component of mRNA COVID-19 vaccines or polysorbate)
- Unknown risks of developing a severe allergic reaction should be balanced against the benefits of vaccination
- Deferral of vaccination and/or consultation with an allergist-immunologist may be considered

Considerations for risk assessment for mRNA COVID-19 vaccination in persons with a precaution to vaccination

- Risk of exposure to SARS-CoV-2
 - e.g., residence in a congregate setting such as a long-term care facility, occupation
- Risk of severe disease or death due to COVID-19
 - e.g., age, underlying medical conditions
- Previous infection with SARS-CoV-2
 - Vaccination is recommended for persons with a history of COVID-19; persons with a precaution to vaccination and recent COVID-19 may choose to defer vaccination until further information is available
- The unknown risk of anaphylaxis following mRNA COVID-19 vaccination persons with a history of an immediate allergic reaction to other vaccines or injectable therapies
- Ability of the patient to be vaccinated in a setting where appropriate medical care is immediately available for anaphylaxis

Neither contraindications nor precautions to vaccination

Pfizer-BioNTech and Moderna COVID-19 vaccines

- History of allergic reactions not related to vaccines, injectable therapies, components of mRNA COVID-19 vaccines, or polysorbates, including:
 - Food

Oral medications

- Pet dander
- Venom
- Environment

- Latex
- Eggs
- Gelatin

Observation period following vaccination

Persons with a precaution to vaccination or a history of anaphylaxis (due to any cause)



All other persons



30 minutes

15 minutes

Summary: Triage of persons presenting for mRNA COVID-19 vaccination

MAY PROCEED WITH VACCINATION	PRECAUTION TO VACCINATION	CONTRAINDICATION TO VACCINATION
 ALLERGIES History of allergies that are unrelated to components of an mRNA COVID-19 vaccine[†], other vaccines, or injectable therapies, such as: Allergy to oral medications (including the oral equivalent of an injectable medication) History of food, pet, insect, venom, environmental, latex, etc., allergies Family history of allergies 	 ALLERGIES History of any immediate allergic reaction[‡] to vaccines or injectable therapies (except those related to component of mRNA COVID-19 vaccines[†] or polysorbate, as these are contraindicated) 	 ALLERGIES History of the following are contraindications to receiving either of the mRNA COVID-19 vaccines†: Severe allergic reaction (e.g., anaphylaxis) after a previous dose of an mRNA COVID-19 vaccine or any of its components Immediate allergic reaction[‡] of any severity to a previous dose of an mRNA COVID-19 vaccine or any of its components^ (including polyethylene glycol)# Immediate allergic reaction of any severity to
 ACTIONS 30 minute observation period: Persons with a history of anaphylaxis (due to any cause) 15 minute observation period: All other persons 	 ACTIONS: Risk assessment Consider deferral of vaccination and/or referral to allergist-immunologist 30 minute observation period if vaccinated 	 ACTIONS Do not vaccinate[#] Consider referral to allergist-immunologist

* Immediate allergic reaction to a vaccine or medication is defined as any hypersensitivity-related signs or symptoms consistent with urticaria, angioedema, respiratory distress (e.g., wheezing, stridor), or anaphylaxis that occur within four hours following administration.

[^]See Appendix A for a list of ingredients. Note: Polyethylene glycol (PEG), an ingredient in both mRNA COVID-19 vaccines, is structurally related to polysorbate and cross-reactive hypersensitivity between these compounds may occur. Information on ingredients of a vaccine or medication (including PEG, a PEG derivative, or polysorbates) can be found in the package insert.

[#] 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)



Additional tools to identify persons with contraindications and precautions to vaccination

Interim considerations:

Preparing for the potential management of anaphylaxis at COVID-19 vaccination sites

CDC Centers for Disease Control	and Prevention	Search	A-2 Index	
Concision and search and the search	*		Advanced Search	
Vaccines & Immunizations				
CDC			6 0 0 0	
Vaccines and Immunizations Home	Interim Considerations: Prepa	ring for the F	otential	
For Parents	Management of Anaphylaxis a	t COVID-19 V	accination	
For Adults	Sites			
For Pregnant Women	Anaphylaxis is an acute and potentially life-threatening serious allergic reaction. Severe allergic reaction (e.g., anaphylaxis) any component of the Pfizer-BioNTech COVID-19 vaccine listed in the <u>prescribing information</u> 🗹 is a contraindication to		action (e.g., anaphylaxis) to is a contraindication to	
For Healthcare Professionals	vaccination. Anaphylactic reactions in persons receiving the Pfizer-Bi been reported. While these reports are further investigated, CDC cor	oNTech COVID-19 vaccine ou siders a history of severe all	itside of clinical trials have ergic reaction such as	
COVID-19 Vaccination +	anaphylaxis to any vaccine or to any injectable therapy (e.g., intramuscular, intravenous, or subcutaneous) as a precaution, but not contraindication, to vaccination. Detailed information on CDC recommendations can be found in the <u>Interim Clinical</u>			
For Immunization Managers	Considerations for Use of Pfizer-BioNTech COVID-19 Vaccine.			
For Specific Groups of People	These clinical considerations provide information on preparing for the initial assessment and management of anaphylaxis following COVID-19 succination. Institutional practices and site-specific factors may also be considered. In all cases, appropriate medical treatment for severe allergic reactions must be immediately available in the event that an acute anaphylactic reaction occurs following administration of a Pfizer-BioNTach COVID-19 vaccine.			
Basics and Common Questions +				
Vaccines and Preventable + Diseases	Appropriate medical treatment for severe allergic reathat an acute anaphylactic reaction occurs following a	ctions must be immediately dministration of Pfizer-BioN	available in the event Tech COVID-19 vaccine.	
News and Media Resources +				
	Observation period following COVI	D-19 vaccinati	ion	
	CDC currently recommends that persons who receive a Pfizer-BioNT- the following time periods:	ech COVID-19 vaccine be obs	erved after vaccination for	
	 Persons with a history of anaphylaxis (due to any cause): 30 min All other persons: 15 minutes 	nutes		
	Early recognition of anaphylaxis			
	Because anaphylaxis requires immediate treatment, diagnosis is prir symptoms, including:	narily made based on recogr	nition of clinical signs and	
	 Respiratory: sensation of throat closing, stridor (high-pitched so cough 	und while breathing), shortn	ess of breath, wheeze,	
	 Gastrointestinal: nausea, vomiting, diarrhea, abdominal pain 			
	 Cardiovascular: dizziness, fainting, tachycardia (abnormally fast pressure) 	heart rate), hypotension (ab	normally low blood	
	 Skin/mucosal: generalized hives, itching, or swelling of lips, face 	throat		
	Early signs of anaphylaxis can resemble a mild allergic reaction, and symptoms will progress to become an anaphylactic reaction. In addit present during anaphylaxis, and not all patients have skin reactions.	it is often difficult to predict to ion, not all symptoms listed Symptoms are considered ge	whether initial, mild above are necessarily eneralized if there are	



Preparing for the potential management of anaphylaxis at COVID-19 vaccination sites

Early recognition of anaphylaxis symptoms

Prompt treatment with epinephrine







Recommended medications and supplies for the management of anaphylaxis at COVID-19 vaccination sites

Should be available at all sites	Include at sites where feasible
Epinephrine prefilled syringe or autoinjector*	Pulse oximeter
H1 antihistamine (e.g., diphenhydramine) [†]	Oxygen
Blood pressure cuff	Bronchodilator (e.g., albuterol)
Stethoscope	H2 antihistamine (e.g., famotidine, cimetidine)
Timing device to assess pulse	Intravenous fluids
	Intubation kit
	Adult-sized pocket mask with one-way valve (also known as cardiopulmonary resuscitation (CPR) mask)

*COVID-19 vaccination sites should have at least 3 doses of epinephrine on hand at any given time.

[†]Antihistamines may be given as adjunctive treatment and should not be used as initial or sole treatment for anaphylaxis. Additionally, caution should be used if oral medications are administered to persons with impending airway obstruction.

Additional resource: Clinical Immunization Safety Assessment COVIDvax project

 Healthcare personnel or health departments in the United States can request a consultation for a complex COVID-19 vaccine safety question about an individual patient residing in the United States not readily addressed by CDC guidance:

https://www.cdc.gov/vaccinesafety/ensuringsafety/monitoring/cisa/index.html

To Ask a Question

- Using the Zoom Webinar System
 - Click on the "Q&A" button.
 - Type your question in the "Q&A" box.
 - Submit your question.
- For media questions, please contact CDC Media Relations at 404-639-3286 or email <u>media@cdc.gov</u>.

Today's COCA Call Will Be Available On-Demand

- When: A few hours after the live call
- What: Video recording
- Where: On the COCA Call webpage at <u>https://emergency.cdc.gov/coca/calls/2020/callinfo_123020.asp</u>

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9 (3) **8** (4)

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As-needed messages that provide specific, immediate action clinicians should take. Contains comprehensive CDC guidance so clinicians can easily follow recommended actions.

COCA Products & Services





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