

Description	Pfizer-BioNTech COVID-19 vaccine	Moderna COVID-19 vaccine
	(4-hydroxybutyl)azanediylbis(hexane-6,1-diyl)bis(2-hexyldecanoate)	SM-102: heptadecan-9-yl 8-((2-hydroxyethyl) (6-oxo-6-(undecyloxy) hexyl) amino) octanoate
Salts, sugars, buffers	Potassium chloride	Tromethamine
	Monobasic potassium phosphate	Tromethamine hydrochloride
	Sodium chloride	Acetic acid
	Dibasic sodium phosphate dihydrate	Sodium acetate
	Sucrose	Sucrose

\* Neither vaccine contain eggs, gelatin, latex, or preservatives

Note: Both the Pfizer-BioNTech and Moderna COVID-19 vaccines contain polyethylene glycol (PEG). PEG is a primary ingredient in osmotic laxatives and oral bowel preparations for colonoscopy procedures, an inactive ingredient or excipient in many medications, and is used in a process called pegylation to improve the therapeutic activity of some medications (including certain chemotherapeutics). Additionally, cross-reactive hypersensitivity between PEG and polysorbates (included as an excipient in some vaccines and other therapeutic agents) can occur.

Information on whether a medication contains PEG, a PEG derivative, or polysorbates as either active or inactive ingredients can be found in the package insert. The National Institutes of Health [DailyMed database](#) [☐](#) can also be used as a resource. As of January 21, 2021, mRNA COVID-19 vaccines are the only currently available vaccines in the United States that contain PEG, though several vaccines contain polysorbate (more information can be found in [CDC's vaccine excipient summary](#) [📄](#)). Some medications that contain PEG and/or polysorbate are also described in the supplementary 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> [📄](#) [☐](#)

## Appendix D: Potential characteristics of allergic reactions, vasovagal reactions, and vaccine side effects following mRNA COVID-19 vaccination

In patients who experience post-vaccination symptoms, determining the etiology (including allergic reaction, vasovagal reaction, or vaccine side effects) is important to determine whether a person can receive additional doses of mRNA COVID-19 vaccines. The following table of signs and symptoms is meant to serve as a resource but might not be exhaustive, and patients might not have all signs or symptoms. Providers should use their clinical judgement when assessing patients to determine the diagnosis and management.

Characteristic	アナフィラキシーを含む即時型アレルギー反応	迷走神経反射	局所反応
Timing after vaccination	ほとんどはワクチン接種から15～30分以内に発生します	ほとんどは15分以内に発生します	ワクチン接種後1～3日の中央値（ほとんどはワクチン接種の翌日に発生します）

### Signs and symptoms

Characteristic	Immediate allergic reactions (including anaphylaxis)	Vasovagal reaction	Vaccine side effects (local and systemic)
全身症状	切迫した運命の感覚	暖かさや寒さを感じる	発熱、悪寒、倦怠感
皮膚症状	皮膚の症状は、そう痒症、蕁麻疹、血管浮腫、紅潮などでアナフィラキシー患者の約90%に見られます。 ▪	顔面蒼白、発汗、ベトベトした肌、顔の温かさの感覚	注射部位の痛み、紅斑または腫れ; ワクチン接種と同じ腕のリンパ節腫脹
神経症状	錯乱、見当識障害、めまい、立ちくらみ、脱力感、意識喪失	めまい、立ちくらみ、失神（多くの場合、数秒または数分間の前駆症状の後）、脱力感、視力の変化（光の点、トンネル視力など）、聴覚の変化	頭痛
呼吸器症状	息切れ、喘鳴、気管支痙攣、喘鳴、低酸素症	色々です：不安を伴う場合は、呼吸数が上昇する可能性があります	N/A
循環器症状	低血圧、頻脈	色々です；失神の時には低血圧または徐脈がある可能性があります	N/A
消化器症状	吐き気、嘔吐、腹痛、下痢	吐き気、嘔吐	嘔吐や下痢が起こる可能性があります
筋骨格症状	N/A	N/A	筋肉痛、関節痛
<b>Vaccine recommendations</b>			
mRNA COVID-19ワクチンの2回目の接種を受けることをお勧めしますか？	No	Yes	Yes

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