



A vaccine administration error is any preventable event that may cause or lead to inappropriate use of vaccine or patient harm. This table provides resources for preventing and reporting COVID-19 vaccine administration errors, as well as actions to take after an error has occurred. For completeness, it includes additional scenarios that deviate from CDC recommendations for vaccine intervals but are not considered administration errors.

#### For all vaccine administration errors:

- Inform the recipient of the vaccine administration error.
- Consult with the state immunization program\_and/or immunization information system (IIS) to determine how the dose should be entered into the IIS, both as an administered dose and to account for inventory.
- Providers are required to report all COVID-19 vaccine administration errors—even those not associated with an adverse event—to VAERS.
- Determine how the error occurred and implement strategies to prevent it from happening again.

#### Interim recommendations for COVID-19 vaccine administration errors and deviations

Туре	Administration error/deviation	Interim recommendation
Site/route	Incorrect site (i.e., site other than the deltoid muscle [preferred site] or anterolateral thigh [alternate site])	Do <b>not</b> repeat dose.
	Incorrect route (e.g., subcutaneous)	Do <b>not</b> repeat dose. Inform the recipient of the potential for local and systemic adverse events.
Age	Unauthorized age group (recipients ages less than 5 years)	• Do <b>not</b> give another dose at this time.*
	Unauthorized age group (recipients ages 5-11 years)	<ul> <li>If Moderna COVID-19 Vaccine administered:</li> <li>As the first dose: Administer a single dose of the age-appropriate Pfizer-BioNtech COVID-19 Vaccine at least 28 days after the Moderna COVID-19 Vaccine dose</li> <li>As the second dose (or as both the first and second dose): The primary series is complete</li> <li>If Janssen COVID-19 Vaccine administered:</li> <li>Administer a single dose of the age-appropriate PFizer-BioNTech COVID-19 Vaccine at least 28 days after the Janssen COVID-19 Vaccine.</li> </ul>
	Unauthorized age group (recipients ages 12-17 years)	<ul> <li>If Moderna COVID-19 Vaccine administered:</li> <li>As the first dose: Administer the age-appropriate Pfizer-BioNtech COVID-19 Vaccine at least 28 days after the Moderna COVID-19 Vaccine dose. Administer a Pfizer-BioNTech booster dose at least 5 months later.</li> <li>As the second dose (or as both the first and second dose): The primary series is complete. Administer a PFizer-BioNTech booster dose at least 5 months later.</li> <li>As a booster dose: No more doses are indicated. The recipient is up to date.</li> <li>If Janssen COVID-19 Vaccine administered:</li> <li>Administer a single dose of the age-appropriate PFizer-BioNTech COVID-19 Vaccine at least 28 days after the Janssen COVID-19 Vaccine. Administer a Pfizer-BioNTech booster dose at least 5 months later.</li> </ul>

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# **COVID-19 Vaccine**

## Administration Errors and Deviations



Туре	Administration error/deviation	Interim recommendation
Formulation and dosage	• If ages 5–11 years and Pfizer- BioNTech COVID-19 Vaccine ≥12 years formulation (purple or gray cap)	• If 0.1 mL administered, in general, do not repeat dose. However, based on clinical judgment (e.g., child received 2 doses of incorrect formulation), a repeat dose of Pfizer-BioNTech COVID-19 Vaccine 5-11 years formulation (orange cap) may be administered at an interval of ≥21 days after the dose given in error.
	inadvertently administered.	<ul> <li>If &gt;0.1mL administered, resulting in a higher than authorized dose, do not repeat dose.<sup>†</sup></li> </ul>
	If ages 12–17 years and administered the Pfizer-BioNTech Vaccine 5–11 years formulation (orange cap), resulting in a lower-than-authorized dose.     **	• In general, do not repeat dose. However, based on clinical judgment (e.g., the adolescent received two doses of incorrect formulation), a repeat dose of Pfizer-BioNTech COVID-19 Vaccine ≥12 years formulation (30 µg, purple cap) may be administered at an interval of 21 days after the dose given in error.
	If ages ≥18 years and administered the Pfizer-BioNTech Vaccine 5–11 years formulation (orange cap), resulting in a lower-than-authorized dose.	Repeat dose immediately (no minimum interval) with the age-appropriate dose and formulation.
	Higher-than-authorized dose volume administered of the correct formulation.	• Do not repeat dose.†
		Repeat dose immediately (no minimum interval).
	Lower-than-authorized dose volume administered of the correct formulation (e.g., leaked out, equipment failure, recipient pulled away)	However, if a half-volume formulation of vaccine is administered on the same clinic day to a patient recommended for the full-volume formulation, another half-volume dose can be administered, and the two doses can count as one full dose.
Storage and	Dose administered after improper storage and handling (i.e., temperature excursion)	Contact the manufacturer for information on the stability of the vaccine. If the manufacturer does not have data to support the stability of the vaccine, repeat the dose immediately (no minimum interval).
handling	Dose administered past the expiration/ beyond-use date	Contact the manufacturer for information on the stability of the vaccine. If the manufacturer does not have data to support the stability of the vaccine, repeat the dose immediately (no minimum interval).
Intervals <sup>1</sup>	An mRNA primary series dose administered prior to the recommended interval**	Repeat dose after the dose given in error by at least the minimum interval.     A second dose given earlier than the minimum interval allowed (i.e., sooner than the 4-day grace period) is considered invalid and should be repeated no sooner than either 21 days (Pfizer-BioNTech COVID-19 Vaccine formulation) or 28 days (Moderna COVID-19 Vaccine) following the invalid second dose in order to complete the primary series.
	Booster dose administered prior to the recommended interval	• Do <b>not</b> repeat dose.
	Any COVID-19 vaccine dose administered at any interval after the recommended interval	Do <b>not</b> repeat dose. There is no maximum interval. This deviation from CDC guidance does <b>not</b> require VAERS reporting.
	Tixagevimab/cilgavimab (EVUSHELD)™     administered less than 14 days after     COVID-19 vaccination	• In general, do <b>not</b> repeat dose. However, based on clinical judgment, a repeat dose of vaccine may be administered at an interval of at least 28 days after the dose of vaccine.

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### Administration Errors and Deviations



Туре	Administration error/deviation	Interim recommendation
Mixed series	Incorrect mRNA COVID-19 vaccine product inadvertently administered as a part of a 2- or 3- dose primary series	• Do <b>not</b> repeat dose.
Diluent (Pfizer- BioNTech COVID-19 Vaccine purple and orange cap formulations only)	ONLY diluent administered (i.e., sterile 0.9% sodium chloride)	Administer the authorized dose immediately (no minimum interval).
	No diluent, resulting in higher than authorized dose (i.e., 0.3 ml of undiluted vaccine administered)	Do <b>not</b> repeat dose <sup>†</sup> Inform the recipient of the potential for local and systemic adverse events.
	Incorrect diluent type (e.g., sterile water, bacteriostatic 0.9% NS)	Contact the manufacturer for information on the stability of the vaccine. If the manufacturer does not have information to support the stability of the vaccine, repeat the dose immediately (no minimum interval).
	Vaccine is mixed with too little diluent	Do <b>not</b> repeat dose. Inform the recipient of the potential for local and systemic adverse events. †
	Vaccine is mixed with too much diluent	Repeat dose immediately (no minimal interval).
	Single-use vial of diluent is used to mix multiple vials of vaccine	Do <b>not</b> repeat dose. Inform patients of the potential for bacterial infection.
Diluent (Pfizer- BioNTech COVID-19 Vaccine gray cap formulation that should not be mixed with diluent)	Vaccine is mixed with any diluent (i.e., any type of volume of diluent)	Contact the manufacturer for information on the stability of the vaccine. If the manufacturer dose not have information to support the stability of the vaccine, repeat the dose immediately (no minimum interval).

<sup>\*</sup> Do not administer the second dose until the person becomes eligible to receive vaccination (either by reaching the authorized age or if the authorization is extended to include additional age groups), even if this results in the second dose being administered after the recommended interval between doses.

\*\* Vaccine administered up to 4 days before the minimum interval may be counted and does not need to be repeated.

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<sup>†</sup> If the administration error resulted in a higher-than-authorized vaccine dose, in general the subsequent dose may still be administered at the recommended interval. However, if local or systemic side effects following vaccination are clinically concerning (outside of the expected side effect profile), lead to serious adverse reactions, or are ongoing at the time of this dose, the decision to administer this may be assessed on a case-by-case basis.

<sup>‡</sup> Individuals who will turn from age 11 years to 12 years of age between their first and second dose in the primary regimen may receive, for either dose, either: (1) the Pfizer-BioNTech COVID-19 Vaccine formulation authorized for use in individuals ages 5 through 11 years (each 0.2 mL dose containing 10 µg) (orange cap); or (2) the Pfizer-BioNTech COVID-19 Vaccine formulation authorized for use in individuals ages 12 years and older (each 0.3 mL dose containing 30 µg) (purple or gray cap). This dosing is in accordance with the FDA EUA (<a href="https://www.fda.gov/emergency-preparedness-and-response/coronavirus-disease-2019-covid-19/comirnaty-and-pfizer-biontech-covid-19-vaccine">https://www.fda.gov/emergency-preparedness-and-response/coronavirus-disease-2019-covid-19/comirnaty-and-pfizer-biontech-covid-19-vaccine</a>) and if such dosing occurred, this is not considered an error and VAERS reporting is not indicated.

<sup>§</sup> Some experts suggest further delaying the repeat dose after the invalid dose based on the potential for increased reactogenicity and the rare risk of myocarditis from mRNA COVID-19 vaccine, particularly in adolescent boys and young adult men. Individual risk for COVID-19 and the likelihood for an adverse event following vaccination should be taken into consideration when recommending a longer interval.

<sup>¶</sup> For the purpose of the public health definition of fully vaccinated, doses administered with an interval error prior to October 25, 2021 do not need to be repeated.