



Management of COVID-19 Vaccine Administration Errors and Deviations

Revised December 15, 2021

This table provides guidance and recommendations for immunization providers when immunization errors/deviations have occurred involving COVID-19 vaccine. These recommendations are applicable to Alberta and may differ from other jurisdictions. Immunization providers should follow their regulatory/employer guidance for reporting vaccine administration errors.

This policy is evergreen and will be updated as new information becomes available.

Туре	Administration Error/Deviations	Consideration for Validity of Dose	Interim Recommended Action
Site/route	Incorrect site (i.e., site other than the deltoid muscle [preferred site] or vastus lateralis [alternate site])	Consider this an <u>invalid</u> dose if given in site other than the deltoid or vastus lateralis	If invalid, repeat dose. Recommendation for spacing: Repeat same day, if same day not possible, then at least minimum spacing from invalid dose: • Pfizer-BioNTech - 19 days. • Moderna - 21 days. • AstraZeneca - 28 days.
	Incorrect route (e.g., subcutaneous)	Consider this an <u>invalid</u> dose.	Repeat dose. Recommendation for spacing: Repeat same day, if same day not possible, then at least minimum spacing from invalid dose: Pfizer-BioNTech - 19 days. Moderna - 21 days. AstraZeneca - 28 days.
Age	Use at a younger age than eligible as per the Alberta Immunization Policy.	Pfizer-BioNTech Pediatric 5 to 11 year vaccine: Consider this a valid dose.	Give the second dose using the Pfizer- BioNTech 5 to 11 year vaccine when client is eligible as per the Alberta Immunization Policy respecting the recommended interval between doses.
		Pfizer-BioNTech 12 years and older vaccine: Consider this a valid dose.	Give the second dose using the Pfizer- BioNTech 5 to 11 year vaccine when client is eligible as per the Alberta Immunization Policy respecting the recommended interval between doses.
		Moderna vaccine: Consider this a <u>valid</u> dose.	Give the second dose using the Pfizer- BioNTech 5 to11 year vaccine when client is eligible as per the Alberta Immunization Policy respecting the recommended interval between doses.





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		AstraZeneca/COVISHIELD vaccine: Consider this a <u>valid</u> dose.	 Less than 12 years of age - complete second dose using the Pfizer-BioNTech 5 to 11 year vaccine when client is eligible as per the Alberta Immunization Policy respecting the recommended interval between doses. 12 to 17 years of age - complete second dose with Pfizer-BioNTech 12 years and older orModerna vaccine at the recommended interval.
		 Janssen vaccine: Consider this a valid dose. The vaccine series is considered complete. 	n/a
Co-administration	In Children 5 to 11 years of age: COVID-19 vaccine administered on the same day, or within 14 days before or after another vaccine.	Both the COVID-19 and the other vaccine are considered valid.	n/a
Intervals	Second dose of COVID-19 vaccine administered at less than the minimal interval (including on the same day)	 Second dose considered invalid if administered: Pfizer-BioNTech - less than 19 days after the first dose. Moderna - less than 21 days after the first dose. AstraZeneca - less than 28 days after first dose. Second dose considered valid if administered: Pfizer-BioNTech - 19 or more days after the first dose. Moderna - 21 days or more after the first dose. AstraZeneca - 28 days or more after the first dose. 	If invalid, repeat dose. Repeat using at least minimum spacing interval from invalid dose: Pfizer-BioNTech - 19 days. Moderna - 21 days. AstraZeneca - 28 days.
	Third/ booster/additional dose of COVID-19 vaccine administered at less than the recommended interval (for those that are eligible for a third/booster/additional dose)	Third/ booster/additional dose considered invalid if administered: less than 28 days after the second dose.	If invalid, repeat dose. For immunocompromised: Repeat at least 8 weeks after invalid dose. For congregate care:





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		Third/booster/additional dose considered valid if administered: 28 or more days after the second dose. No further doses are recommended at this time.	 Repeat at least 5 calendar months after invalid dose. For travelers: Repeat at least 28 days after invalid dose. For others who are recommended a booster dose at least 6 calendar months after completion of the primary series.: Repeat at least 6 months after invalid
	Janssen	Janssen COVID-19 given 28 days or more following another COVID-19 vaccine consider dose valid. If Janssen COVID-19 given at less than 28 days following another COVID-19 vaccine consider dose invalid.	dose. If invalid: repeat dose at least 28 days after invalid dose.
Mixed vaccines for first and second doses	A different vaccine used for the first and second dose	Refer to Defining Fully Immunized – COVID-19 for mixed schedules. Any mix of WHO approved vaccines is acceptable in Alberta as long it respects minimum spacing requirements. See WHO list here. Follow the status of COVID-19 Vaccines within WHO EUL/PQ evaluation process Vaccines accepted in Alberta are "Finalized" under status of assessment.	n/a
Mixed vaccine with less than minimal intervals	A different vaccine used for the first and second dose with less than minimal intervals	Consider the first dose valid. Consider second dose valid if administered at minimum interval associated with the first dose. Consider second dose invalid if administered at less than the minimum interval associated with first dose.	If invalid, repeat dose. Repeat using <u>at least</u> minimum spacing interval from invalid dose based on the vaccine being given for dose 2. Pfizer-BioNTech - 19 days Moderna - 21 days AstraZeneca - 28 days





Туре	Administration Error/Deviations		Consideration for Validity of Dose	Interim Recommended Action
Dosage (see Diluent section below for specific information regarding Pfizer-BioNTech and the diluent)	Higher-than- authorized dose volume administered	5 to 11 years of age 12 to 17 years of age 18 years and older Booster doses of Moderna	Consider this dose valid. Those who received a booster dose of Moderna 100 mcg but were recommended to receive Moderna 50 mcg as per Alberta Immunization Policy - consider the dose valid	n/a ** Inform the recipient of the potential for local and systemic adverse events. Encourage self-monitoring and reporting. ACTIVE daily surveillance to monitor for adverse events is not required. n/a
	Lower-than- authorized dose volume administered (e.g. leaked out, equipment	5 to 11 years of age 12 to 17 years of age	Any partial dose – consider this dose invalid. A dose of the Pfizer-BioNTech 5 to11 year vaccine (10 mcg dose) is considered valid. Any other partial dose – consider the dose	For invalid doses - repeat dose. Recommendation for spacing: Repeat same day, if same day not possible, then at least minimum spacing from invalid dose:
	_	18 years and older Booster doses of Moderna	invalid. A dose of the Pfizer-BioNTech 10 mcg is considered invalid. Any other partial dose is considered invalid. Those who received a booster dose of Moderna 50 mcg but were recommended to receive Moderna 100 mcg as per Alberta Immunization Policy – consider the dose valid.	 Pfizer-BioNTech - 19 days Moderna - 21 days AstraZeneca - 28 days
Diluent (Pfizer-BioNTech only)	Incorrect diluent type (e.g., sterile water, bacteriostatic 0.9% NS) ONLY diluent administered (i.e., sterile 0.9% sodium chloride)		Contact the manufacturer for guidance. If vaccine determined to be not viable by manufacturer – dose is considered invalid. If vaccine determined to be viable by the manufacturer – dose is considered valid. If the manufacturer cannot/does not provide information on vaccine viability – consider the dose invalid.	For invalid doses – Repeat dose same day or as soon as possible.
			No vaccine administered.	Provide valid dose as soon as possible.





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	More than the recommended amount of diluent used for reconstitution (more than 2.0 mls of diluent)	This is a partial dose – considered invalid	Repeat dose. Recommendation for spacing: Repeat same day, if same day not possible then at least minimum spacing from invalid dose: Pfizer-BioNTech - 19 days. Moderna - 21 days. AstraZeneca - 28 days.
	No diluent or less than the recommended amount of diluent used for reconstitution, resulting in higher than the authorized dose	Consider this dose valid.	n/a ** Inform the recipient of the potential for local and systemic adverse events. Encourage self-monitoring and reporting. ACTIVE daily surveillance to monitor for adverse events is not required.
Storage and Handling	Dose administered after improper storage and handling (e.g., temperature excursion)	Contact the manufacturer for guidance: If vaccine determined to be not viable by the manufacturer – dose is considered invalid. If vaccine determined to be viable by the manufacturer – dose is considered valid.	For invalid doses – Repeat dose same day or as soon as possible.
	Dose administered past the expiration/beyond use date	Contact the manufacturer for guidance. If vaccine determined to be not viable by the manufacturer – dose is considered invalid. If vaccine determined to be viable by the manufacturer – dose is considered valid.	For invalid doses – Repeat dose same day or as soon as possible.
Vaccines received in other countries	Individual has received one dose of a non-Health Canada authorized COVID-19 vaccine outside of Canada.	Refer to Defining Fully Immunized – COVID-19 for the list of non-Health Canada authorized COVID-19 vaccines that are currently accepted and considered valid in Alberta. See WHO list here. Follow the status of COVID-19 Vaccines within WHO EUL/PQ evaluation process Vaccines accepted in Alberta are "Finalized" under status of assessment.	If valid dose: complete series with mRNA vaccine at least 28 days after valid dose. Individuals may receive two doses of mRNA vaccine if they request two doses to be given. All doses are considered valid. If invalid dose: restart series with mRNA vaccine.





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	Individual has received two doses	Refer to Defining Fully Immunized – COVID-19	If valid doses: offer one dose of mRNA vaccine
	of a non-Health Canada authorized		at least 28 days after valid dose.
	COVID-19 vaccine outside of	See WHO list here. Follow the status of	
	Canada.	COVID-19 Vaccines within WHO EUL/PQ	Individuals may receive two doses of mRNA
		evaluation process Vaccines accepted in	vaccine if they request two doses to be given.
		Alberta are "Finalized" under status of	All doses are considered valid (i.e. may be up
		assessment.	to 4 valid doses).
			If invalid doses: restart series with mRNA
			vaccine.

Adapted and based on the Public Health Agency of Canada's document – "Quick reference quick on use of COVID-19 vaccines for Adults and adolescents (12 or 18 years of age and over)" and "Quick reference guide on use of COVID-19 vaccines for children (5 to 11 years of age)".