



## MEDICATION ADMINISTRATION-INTRAMUSCULAR (IM) INJECTION Document Owner: C. Sohm Program/Service Area: Centre for Prehospital Care Review Date: September 2024 Revision Date: September 2024 Approval: Corey Petrie, Interim Regional Manager, Centre for Prehospital Care & Trauma Services Frequency: In accordance with the Medical Directive that requires administration of a medication by intramuscular injection Signature:

**Purpose:** To ensure a consistent standardized practice for administering medications via intramuscular injection.

	Content	Details
1.	Ensure the patient qualifies for the appropriate medical directive, or contact a Base Hospital Physician (BHP) for further direction.	
2.	Communicate the need for the medication, and its effects to the patient and/or family member and obtain consent whenever possible.	
3.	Check medication for proper labeling and the expiry date is after the administraton date.	All commonly used multi-dose vials of injectable medication in solution will be given an expiry of 30 days from the date of initial opening, unless the manufacturer specifies a different date.
4.	Refer to the medical directive for prescribed dosage(s). Perform a medication cross check with your partner (if available)	
5.	<ul> <li>Obtain the required equipment.</li> <li>Dosages less than 1 mL should be drawn with a 1 mL syringe for increased accuracy</li> <li>Dosages of 1 mL should be done with a 3 mL syringe to simplify the drawing/zeroing process.</li> </ul>	For the administration of Glucagon, follow the package instructions for preparation but utilize the most appropriate sized IM needle and syringe for injection.
	Recommended needle sizes are:  • Adult: 2.5 cm-3.8 cm (1"-1.5") length and 22-25 gauge.  • Pediatric: 2.2-2.5 cm (1/8" - 1") length and 22-25 gauge	
6.	Preferred site is the deltoid muscle for patients ≥ 12 months. Avoid areas with bruising, edema, masses, tenderness or discoloration when possible. Select a site that has not recently been used. Palpate the acromion process and landmark 2.5 - 5.0 cm below.	Recommended deltoid Injection volume is 0.5 to 3 ml. If the patient requires more than 3 ml of medication prepare another injection site or utilize the vastus lateralis which can hold a max of 5 mls.
7.	For patients < 12 months age and/or emaciated patients with under developed deltoid muscles, inject the medication into the vastus lateralis muscle of the thigh.  Landmark by placing one hand below the greater trochanter and one hand above the knee. The space between the two hands and slightly on the lateral side defines the vastus	

## STANDARD WORK



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	lateralis muscle. The IM injection should be made in the middle third of that space.	
8.	Cleanse the area with an alcohol swab, wiping with firm pressure from injection site outward in a circular motion.	Allow the skin to dry.
	Hold the syringe between the thumb and forefinger of	
9.	dominant hand. Pull cover straight off the needle with non-	
	dominant hand.	
	Using the Z-track method, apply slight pressure to the skin	
10.	while pulling laterally away from the injection site until the	
	dermis is taught over injection site.  Insert the needle swiftly at a 90-degree angle using a dart	
11.	like motion to ensure insertion well into the muscle layer.	
12.	Inject the medication slowly until the entire dose is administered.	
	After the injection, withdraw the needle at the same angle it	Releasing your hold on the skin and tissue
	was inserted. Release your hold on the skin and tissue and	disrupts the hole that the needle left in the
	apply pressure to the site with a piece of gauze.	tissues and prevents the medication from
		leaking out.
13.		Do not massage the site following an
		intramuscular injection. This may force
		medication from the muscle into the skin
		layers and reduce the absorption of the drug.
	Discard the needle in the sharps container without	drug.
14.	recapping.	
45	Assess the patient closely for any change in condition	
15.	following medication administration and document any adverse effects.	
16.	Discontinue further medication administration if adverse	
10.	effects occur and/or as directed by a BHP.	
	Document the procedure on the Ambulance Call Report as	This must include:
	per the MoH Ambulance Documentation Standards and your Service Provider's policy	<ul><li>name of the medication</li><li>dose and concentration of the</li></ul>
	Convice i revider a policy	medication
		time of administration
17.		route/site of administration
		amount of wastage for any controlled
		substance accompanied by a co-
		<ul><li>signature</li><li>patient condition before and after</li></ul>
		medication administration
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**Expected Outcome:** To safely administer medication via intramuscular injection.