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A reference guide to help improve syringe usage and administration technique

ON THE FRONT LINE™ OF VACCINE ADMINISTRATION

PREPARING TOGETHER FOR THE FIGHT AGAINST SEASONAL INFLUENZA

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M-F, 9:00AM-8:00PM EDT/EST

References: **1.** BD. Principles of injection technique. BD website. https://www.bd.com/documents/in-service-materials/syringes-and-needles/MPS_HY_Principles-of-injection-technique_IM_EN.pdf. Published 2017. Accessed May 29, 2019. **2.** Afluria Quadrivalent [package insert]. Summit, NJ: Seqirus USA Inc; 2018. **3.** FLUCELVAX QUADRIVALENT [package insert]. Holly Springs, NC: Seqirus Inc; 2018. **4.** Immunization Action Coalition. How to administer intramuscular and subcutaneous vaccine injections. Immunization Action Coalition website. www.immunize.org/catg.d/p2020.pdf. Published 2018. Accessed May 29, 2019. **5.** Centers for Disease Control and Prevention. Vaccine administration. In: Hamborsky J, Kroger A, Wolfe S, eds. Epidemiology and Prevention of Vaccine-preventable Diseases. 13th ed. Washington DC: Public Health Foundation; 2015:79-106. **6.** Immunization Action Coalition. How to administer intramuscular and subcutaneous vaccine injections to adults. Immunization Action Coalition website. www.immunize.org/catg.d/p2020a.pdf. Published 2018. Accessed May 29, 2019.

PREFILLED SYRINGES

1 Connection

Hold the luer lock when attaching the needle to avoid a weak needle connection.

LUER LOCK¹

- Provides a secure connection between the syringe and needle
- Has a threaded tip for a “locking” fit with a variety of needles

2 Confirmation

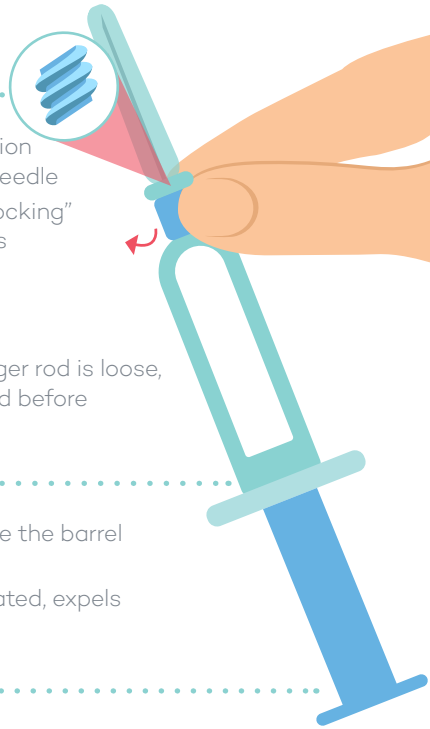
Inspect the syringe. If a plunger rod is loose, turn clockwise until tightened before administering dose

FINGER FLANGE¹

- Is a piston-like device inside the barrel of the syringe
- When thumb press is activated, expels the contents of the syringe

PLUNGER ROD¹

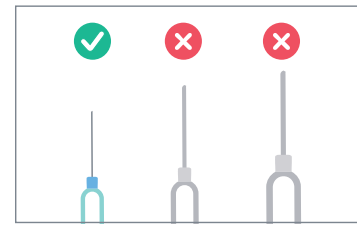
- Extends out from the side of the syringe barrel
- Provides a barrier to stop delivering the vaccine once dose is given



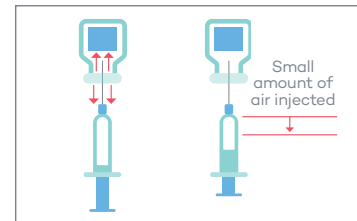
3 Administration

MULTIDOSE VIALS

HOW TO GET THE MOST DOSES OUT OF THE VIAL^{2,3}



- Use small syringes (0.5 mL or 1.0 mL) and the recommended needle size (22 to 25 gauge)²⁻⁴

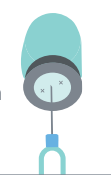


- If a vacuum is felt when extracting a dose, introduce a minimal amount of air to prevent over-pressurizing the vial

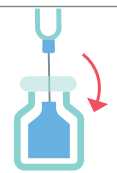
- Each vial contains 10 full doses.

BE SURE TO...

Aim for different puncture sites with each dose



Stand vial upright before withdrawing syringe



TIP: Introducing too much air into the vial can cause a loss of vaccine and lead to the inability to extract the full 10 doses, according to the Centers for Disease Control and Prevention (CDC)⁵

For any questions about prefilled syringes or multidose vials, please call Customer Service at 1-855-358-8966.

Insertion sites and method

IM ADMINISTRATION DETAILS FOR EACH PATIENT TYPE⁴

PATIENT AGE	INJECTION SITE	NEEDLE SIZE (22-25 GAUGE)
Newborn (0-28 days)	Anterolateral thigh muscle	5/8"
Infant (1-12 months)	Anterolateral thigh muscle	1"
Toddler (1-2 years)	Anterolateral thigh muscle	1-1 1/4"
	Alternate site: Deltoid muscle	5/8-1"
Children (3-10 years)	Deltoid muscle (upper arm)	5/8-1"
	Alternate site: Anterolateral thigh muscle	1-1 1/4"
Children and adults (11 years and older)	Deltoid muscle (upper arm)	5/8-1"
	Alternate site: Anterolateral thigh muscle	1-1 1/2"



INTRAMUSCULAR (IM) INJECTION SITE: CHILDREN AND ADULTS

- Insert needle in the central and thickest portion of the deltoid muscle.

This is located above the level of the armpit and approximately 2 to 3 fingerbreadths (~2") below the acromion process (bony prominence above deltoid)⁴

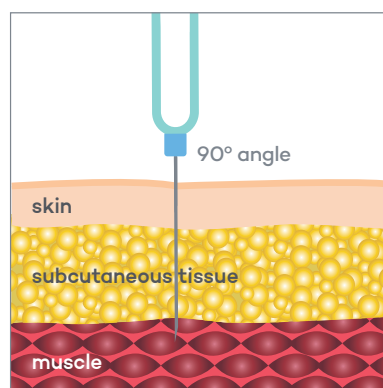
- Multiple injections given in the same extremity should be separated by a minimum of 1 inch, if possible⁶

TIP: To avoid injury, do not inject too high or too low⁴

IM INJECTION TECHNIQUE⁴

- Use a needle long enough to reach deep into the muscle (see chart above)
- Insert the needle at a 90° angle to the skin with a quick thrust

TIP: Before administering a vaccine injection, it is not necessary to aspirate (ie, pull back) on the syringe plunger rod after needle insertion



INTRAMUSCULAR (IM) INJECTION SITE: INFANTS AND TODDLERS

- Insert needle into the anterolateral thigh muscle⁴