

Your guide to vaccine administration

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PRE-FILLED SYRINGES

1 Connection

Hold the LUER-LOK® when attaching the needle to avoid a weak needle connection.

LUER-LOK®¹

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



2 Confirmation

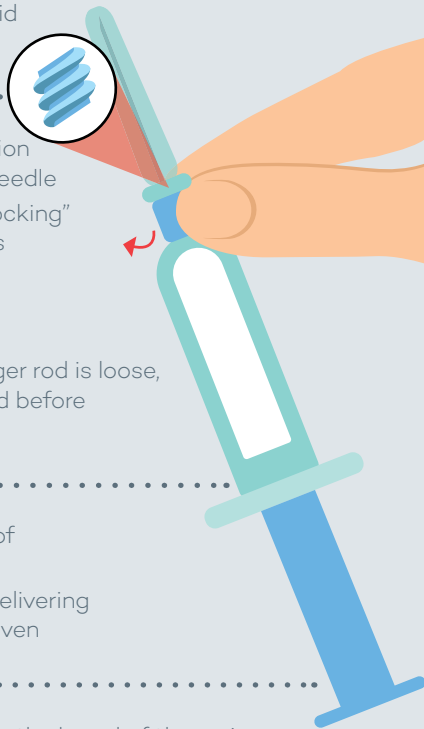
Inspect the syringe. If a plunger rod is loose, turn clockwise until tightened before administering dose.

FINGER FLANGE¹

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

PLUNGER ROD¹

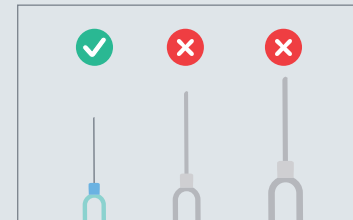
- Is a piston-like device inside the barrel of the syringe
- When thumb press is activated, expels the contents of the syringe



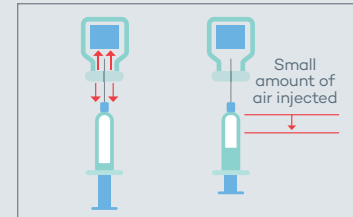
3 Administration

MULTI-DOSE VIALS

HOW TO GET 10 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.

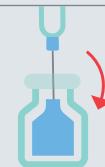
- Each vial contains 10 doses.

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 10 doses, according to the Centers for Disease Control and Prevention.⁵

For any questions about pre-filled syringes or multi-dose vials, please call **flu360 | Support at 855-358-8966**.

Insertion sites and method



INTRAMUSCULAR (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 (upper arm)	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"



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

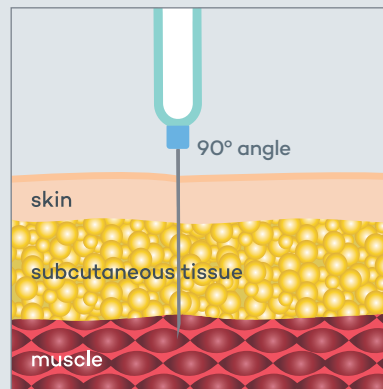
- If multiple vaccines are administered at a single visit, administer each vaccine at a different anatomic site.⁶

TIP: To avoid injury, do not inject too high or too low.⁴

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.



IM INJECTION SITE: INFANTS AND TODDLERS

- Insert needle into the anterolateral thigh muscle.⁴

Working together to transform protection against influenza

As a global leader in influenza prevention, we offer:



A FOCUS ON SOLUTIONS

that support your immunization and business needs



INNOVATIVE VACCINE TECHNOLOGIES

and a portfolio for people 6 months and older



ROBUST MANUFACTURING CAPABILITIES

across 3 continents

CONTACT US



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

References: **1.** BD. Principles of injection technique. https://www.bd.com/documents/in-service-materials/syringes-and-needles/MPS_HY_Principles-of-injection-technique_IM_EN.pdf. Published 2017. Accessed March 10, 2020. **2.** AFLURIA QUADRIVALENT [package insert]. Summit, NJ: Seqirus USA Inc; 2019. **3.** FLUCELVAX QUADRIVALENT [package insert]. Holly Springs, NC: Seqirus Inc; 2019. **4.** Immunization Action Coalition. How to administer intramuscular and subcutaneous vaccine injections. <https://www.immunize.org/catg.d/p2020.pdf>. Published 2018. Accessed June 16, 2020. **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. Public Health Foundation; 2015:79-106. **6.** Immunization Action Coalition. How to administer intramuscular and subcutaneous vaccine injections to adults. <https://www.immunize.org/catg.d/p2020a.pdf>. Published 2018. Accessed June 16, 2020.

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