

# Your guide to flu vaccine administration

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## PRE-FILLED SYRINGES

### 1 Connection

Hold the (Luer-Lok)<sup>TM</sup> when attaching the needle to ensure a strong connection.

#### (Luer-Lok)<sup>TM</sup>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

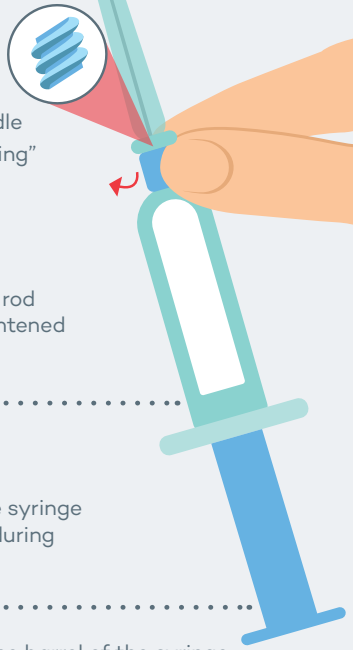
Inspect the syringe. If a plunger rod is loose, turn clockwise until tightened before administering dose.

#### FINGER FLANGE<sup>1</sup>

- Extends out from the side of the syringe barrel
- Allows for a secure grip on the syringe and provides greater control during administration of the vaccine

#### PLUNGER ROD<sup>1</sup>

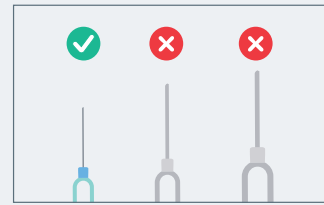
- Is a piston-like device inside the barrel of the syringe
- When thumb press is depressed, expels the contents of the syringe



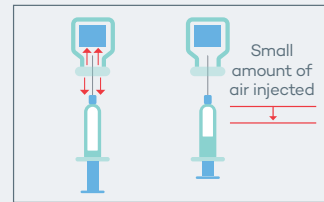
### 3 Administration

## MULTI-DOSE VIALS

### HOW TO GET 10 DOSES OUT OF THE VIAL<sup>2</sup>



- Use small syringes (0.5 mL or 1.0 mL) and the recommended needle size (22 to 25 gauge)<sup>2,3</sup>



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

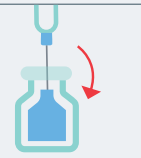
- Each vial contains 10 doses\*

#### 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.<sup>4</sup>



For any questions about pre-filled syringes or multi-dose vials, please email us at [customerservice.us@seqirus.com](mailto:customerservice.us@seqirus.com).

\*The number of needle punctures should not exceed 20 per AFLURIA<sup>®</sup> QUADRIVALENT multi-dose vial.<sup>2</sup>

# Insertion sites and method

### INTRAMUSCULAR (IM) ADMINISTRATION DETAILS FOR EACH PATIENT TYPE<sup>3</sup>

PATIENT AGE	INJECTION SITE	NEEDLE SIZE (22-25 GAUGE)
Infant (6-12 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"
Child (3-10 years)	Deltoid muscle (upper arm)	5/8"-1"
	Alternate site: Anterolateral thigh muscle	1"-1 1/4"
Child and Adult (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)<sup>3</sup>

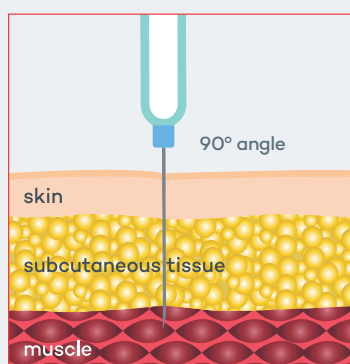
- If multiple vaccines are administered at a single visit, administer each vaccine at a different anatomic site<sup>4</sup>

**TIP:** To avoid injury, do not inject too high or too low.<sup>3</sup>

#### IM INJECTION TECHNIQUE<sup>3</sup>

- 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) the syringe plunger rod after needle insertion.



#### IM INJECTION SITE: INFANTS AND TODDLERS

- Insert needle into the anterolateral thigh muscle<sup>3</sup>



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**References:** **1.** BD. Principles of injection technique. Accessed April 25, 2023. [https://www.bd.com/documents/in-service-materials/syringes-and-needles/MPS\\_HY\\_Principles-of-injection-technique\\_IM\\_EN.pdf](https://www.bd.com/documents/in-service-materials/syringes-and-needles/MPS_HY_Principles-of-injection-technique_IM_EN.pdf) **2.** AFLURIA QUADRIVALENT. Package insert. Seqirus Inc; 2023. **3.** Immunization Action Coalition. How to administer intramuscular and subcutaneous vaccine injections. Accessed April 25, 2023. <https://www.immunize.org/catg.d/p2020.pdf> **4.** 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.

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