The Pfizer-BioNTech COVID-19 Vaccine has not been approved or licensed by FDA, but has been authorized for emergency use under an Emergency Use Authorization to prevent Coronavirus Disease 2019 (COVID-19) for use in individuals 16 years of age and older. The emergency use of this product is only authorized for the duration of the declaration that circumstances exist justifying the authorization of emergency use of the medical product under Section 584(b)(1) of the FD&C Act unless the declaration is terminated or authorization revoked sooner.


After dilution, vials of Pfizer-BioNTech COVID-19 Vaccine contain 6 doses of 0.3 mL of vaccine. Low dead-volume syringes and/or needles can be used to extract 6 doses from a single vial.

Use of low dead-volume (LDV) syringes and/or needles may maximize the potential number of vaccine doses and minimize vaccine wastage.

**Low dead-volume** (also called low dead-space) is the amount of fluid remaining within the syringe and needle after an injection is completed.

**Characteristics of LDV syringes and needles**

- **HIGH**
  - dead-volume needle and syringe

- **REDUCED**
  - dead-volume modified syringe

- **LOW**
  - dead-volume detachable needle

- **LOW**
  - dead-volume fixed "all-in-one" needle and syringe

Withdrawal of 6 doses is unlikely with standard detachable needles with standard syringe.

LDV SYRINGES have plungers molded to the luer cone, allowing fluid to be cleared from the syringe tip during injection.

LDV NEEDLES have an extension of the needle that fits through the opening of some standard syringes, allowing for a reduction in dead space.

FIXED-NEEDLE SYRINGES have low dead volumes and will, in most cases, achieve 6 doses of the Pfizer-BioNTech COVID-19 Vaccine.

Compatible LDV syringe and/or needle pairings may successfully withdraw 6 doses of Pfizer-BioNTech COVID-19 Vaccine, but not all combinations have been assessed or have a low dead volume that is small enough to allow extraction of a sixth dose.

The Centers for Disease Control and Prevention (CDC) is partnering with McKesson to provide ancillary kits containing needles and syringes for use with all COVID-19 vaccines. Please reach out to your state, local, or tribal health department and/or the CDC for more information. Pfizer makes no guarantee of the type or quality of the needles and syringes within the ancillary kits or the capability to withdraw 6 doses. For further information, please contact the manufacturer directly.

Find out more about the Pfizer-BioNTech COVID-19 Vaccine at www.cvdvaccine-us.com

References: