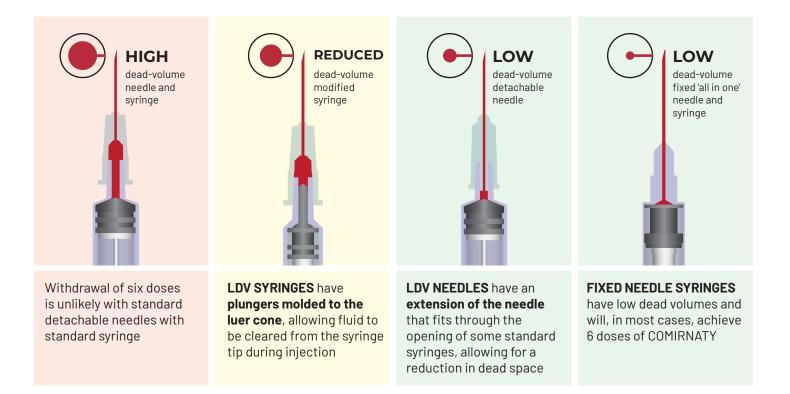
After dilution, vials of COMIRNATY contain six doses of 0.3 mL of vaccine. In order to extract six doses from a single vial, low dead-volume syringes and/or needles should be used. The low dead-volume syringe and needle combination should have a dead volume of no more than 35 microlitres (0.035 mL).

## What You Need to Know About LOW DEAD-VOLUME (LDV) SYRINGES AND/OR NEEDLES

**Low Dead-Volume** (also called low dead-space) is the amount of fluid remaining within the syringe and needle after an injection is completed<sup>1</sup>

## **Characteristics of LDV syringes and needles**



Compatible LDV syringe and/or needle pairings may successfully withdraw 6 doses of COMIRNATY, but not all combinations have been assessed or will meet the dead space limit



## This is an indicative/non-exhaustive list and alternative equipment and suppliers may also be used.

After dilution, vials of COMIRNATY COVID-19 mRNA Vaccine (nucleoside modified) contain six doses of 0.3 mL of vaccine. In order to extract six doses from a single vial, a total dead-volume syringe and/or needle should be used. The low dead-volume syringe and needle combination should have a dead volume of no more than 35 microlitres. A list of low dead-volume needle and syringe combinations meeting the 0.035 mL dead-volume requirement is provided below (updated as of January 17, 2021).

Please note this is an indicative/non-exhaustive list and that alternative equipment and suppliers can also be used. This list will be updated on a regular basis by Pfizer and BioNTech and it will be accessible on the <u>www.comirnatyglobal.com</u> landing page by using the QR code on the vial tray and the package leaflet.

## This list is provided for information only without any guarantee from Pfizer regarding the quality of these syringes and needles. For further information in this respect, please contact the manufacturer directly.

Standard Syringes With Low Dead-Space Needles			
Syringes	Syringe Reference	Needle Type	Needle Reference*
B Braun Injekt 2 mL	4606027V	FrontierMedical LDS Long Orange 25G	011753
B Braun Omnifix-F	9161406V	FrontierMedical LDS Long Orange 25G	011753
BD Discardit II 2mL	300928	FrontierMedical LDS Long Orange 25G	011753
BD Emerald 3 mL	302986	FrontierMedical LDS Long Orange 25G	011753
BD Plastipak 1 mL Luer	303172	FrontierMedical LDS Long Orange 25G	011753
FrontierMedical 1 mL Solo	011621	FrontierMedical LDS Long Orange 25G	011753
Fixed Needle Syringes (all in one)			
Syringes	Syringe Reference	Needle Type	Needle Reference*
HAOIU fixed needle 1 mL syringe	N/A	N/A	N/A
VanishPoint fixed needle 1 mL syringe	N/A	N/A	N/A
Sol-Millenium SOL-CARE 1ml TB Safety Syringe w/ Fixed Needle 25G*1	100034IM	N/A	N/A
Reduced (low) Dead-Space Syringes With Standard Ne	eedles		
Syringes	Syringe Reference	Needle Type	Needle Reference*
B Braun Injekt-F	9166017V	BD SafetyGlide 25G	305916
B Braun Omnifix-F Luer Lock Solo	9167006V	B Braun Sterican	4657640
B Braun Omnifix-F Luer Lock Solo	9167006V	B Braun Sterican Safety 25G	4670020S-01
B Braun Omnifix-F Luer Lock Solo	9167006V	BD Eclipse Needle 25G	305891
B Braun Omnifix-F Luer Lock Solo	9167006V	BD MicroLance 3	300800
B Braun Omnifix-F Luer Lock Solo	9167006V	BD SafetyGlide 25G	305916
B Braun Omnifix-F Luer Lock Solo	9167006V	Magellan 25G needle	8881850510-1
B Braun Omnifix-F Luer Lock Solo	9167006V	Smiths Needle Pro EDGE	402510
Chirana 1 mL Luer syringe	CH03001L	B Braun Sterican	4657640
Chirana 1 mL Luer syringe	CH03001L	B Braun Sterican Safety 25G	4670020S-01
Chirana 1 mL Luer syringe	CH03001L	BD Eclipse Needle 25G	305891
Chirana 1 mL Luer syringe	CH03001L	BD MicroLance 3	304100
Chirana 1 mL Luer syringe	CH03001L	BD SafetyGlide 25G	305916
Chirana 1 mL Tuberculin syringe	CHTUB01	B Braun Sterican	4657640
Chirana 1 mL Tuberculin syringe	CHTUB01	B Braun Sterican Safety 25G	4670020S-01
Chirana 1 mL Tuberculin syringe	CHTUB01	BD Eclipse Needle 25G	305891
Chirana 1 mL Tuberculin syringe	CHTUB01	BD MicroLance 3	304100
Chirana 1 mL Tuberculin syringe	CHTUB01	BD SafetyGlide 25G	305916
Exel 1 mL LDS syringe	26049	Magellan 25G needle	8881850510-1
Exel 1 mL LDS syringe	26049	Smiths Needle Pro EDGE	402510
FrontierMedical 1 mL ID syringe	011600	BD Eclipse Needle 25G	305891
Henke-Ject LDS syringe	8300018745	BD Eclipse Needle 25G	305891
Henke-Ject LDS syringe	8300018745	BD SafetyGlide 25G	305916
Henke-Ject LDS syringe	8300018745	Magellan 25G needle	8881850510-1
Henke-Ject LDS syringe	8300018745	Smiths Needle Pro EDGE	402510
Mediware 1 mL Tuberculin syringe	13 040200	BD SafetyGlide 25G	305916

\*256 1-inch needle part numbers are provided for the table; however, any needle suitable for IM injection could be used from this product line. N/A, not applicable.

Reference: 1. Kesten JM, Ayres R, Neale J, et al. Acceptability of low dead space syringes and implications for their introduction: a qualitative study in the West of England. Int J Drug Policy. 2017;39:99-108.

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