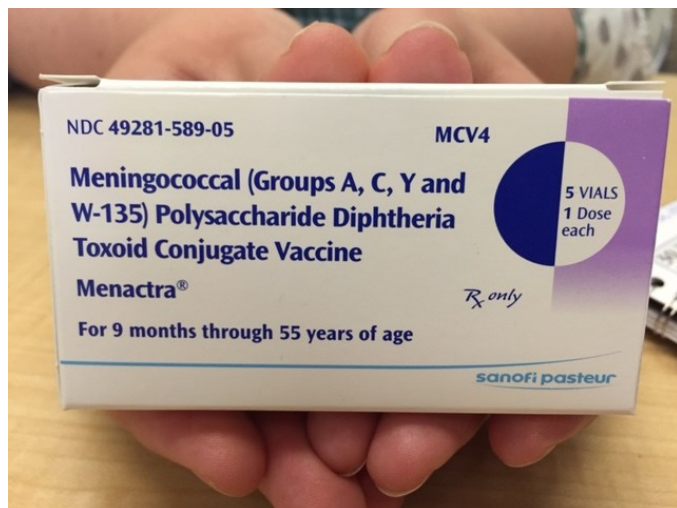


## Lot Number Variations Between Unit of Sale and Unit of Use

### What is the Unit of Sale?

The Unit of Sale (UoS) is the exterior packaging or carton that the vaccine is shipped in.



### What is the Unit of Use?

The Unit of Use (UoU) is the vaccine vial or pre-filled syringe found within the UoS.



## **Why is this Important?**

There are some vaccine products that will have a different lot number on the UoS and UoU for the same vaccine. This makes documenting the administration of the vaccine challenging when trying to figure out which lot number you should record. The UoS is generally the lot number used for inventory management and it is the lot number the NDHHS Immunization Unit receives from the Centers for Disease Control and Prevention (CDC) shipping files and enters into the North Dakota Immunization Information System (NDIIS) vaccine inventory for all publicly funded (i.e., state) vaccines. Some immunization providers have implemented the use of 2D barcode scanning for more accurate documentation of vaccine administration. However, when using the 2D barcode scanner, it is the standard of practice to use the lot number on the UoU, which may not match the lot number in the NDIIS inventory.

## **What does this mean?**

When doses are added to an NDIIS client immunization record, lot number is a free-text field and is required for all administered (i.e., non-historical) doses. When a lot number entered in an immunization record, either directly in the NDIIS or through an interface with a provider EHR, matches a lot in the provider's NDIIS inventory, the dose will be decremented from the provider's inventory and will be tracked as either a public or private dose administered. If the lot number entered is from the UoU and not the UoS, a matching lot number may not be found in the provider's NDIIS vaccine inventory, the dose cannot be decremented from the provider's inventory and will not be correctly tracked as either a public or private dose administered. This means that providers enrolled in the Vaccines for Children (VFC), 317 Adult Vaccine, or COVID-19 Vaccine Program will not have an accurate inventory count of doses on hand or doses administered in the NDIIS. Both of these data elements are used to determine if the enrolled provider site is eligible to order more publicly funded vaccine. When providers have a high number of doses on hand and a low number of doses administered due to incorrect data entry, the NDHHS Immunization Unit will not allow the provider to order additional vaccine because it will appear as if the provider is not using the public vaccine already on hand.

## **What can we do?**

When documenting the administration of a vaccine, it is recommended that you are recording the lot number from the UoS, not the UoU. This will ensure that the inventory management and doses administered data will stay in sync.

The table below shows vaccines available to order through the VFC program that are known to have a different lot number on the UoS and UoU. The table, produced by the American Immunization Registry Association (AIRA), shows the patterns for the different lot numbers but may not include all vaccines that have different UoS/UoU lot numbers.

Vaccines manufactured by MedImmune (AstraZeneca), Pfizer, Merck, and Bio CSL have the same lot numbers on their UoS and UoU. This issue does not have impact their vaccines.

**Table 1: Vaccines with Different Lot Numbers: UoU and UoS, With Associated Patterns Table**

Company	Brand Name	NDC		Lot Number Patterns*, English Notation		Note
		Unit of Sale (Outer box)	Unit of Use (Vial/Syringe)	Unit of Sale (Outer box)	Unit of Use (Vial/Syringe)	
Sanofi Pasteur	ActHIB (Lyophilized vaccine powder)	49281-545-03	49281-547-58	AA####AA <del>A</del>	AA####AA (Lyophilized)	UoS has extra alpha at end of lot number. First 7 digits same on UoU & UoS
	ActHIB (Liquid Diluent)	49281-545-03	49281-546-58	AA####AA <del>A</del>	See Note (Diluent)	No relationship between the UoS lot number and the Diluent UoU lot number
Sanofi Pasteur	IMOVAX RABIES (Lyophilized vaccine powder)	49281-250-51	49281-248-58	A##### <del>A</del>	A##### (Lyophilized)	UoS has an extra number and alpha at the end of the lot number. First 5 characters same on UoU & UoS
	IMOVAX RABIES, Sterile water (Liquid Diluent)	49281-250-51	49281-249-01	A##### <del>A</del>	See Note (Diluent)	No relationship between the UoS lot number and the Diluent UoU lot number
Sanofi Pasteur	IPOL vial	49281-860-10	49281-860-78	A##### <del>A</del>	A#####	UoS has an extra number and alpha at the end of the lot number. First 5 characters same on UoU & UoS
Historic Menveo Pattern**						
GSK	Menveo, MenA lyophilized conjugate component (Lyophilized vaccine powder)	46028-208-01 <small>(Code Retired on April 30, 2018)</small>	46028-218-11 <small>(Code Retired on April 30, 2018)</small>	M#####	A##### (Lyophilized)	UoS outer box lot number begins with the letter M (actual letter M) and is followed by 5 numbers. MenA UoU lot number begins with A (actual letter A) while the peel-off label begins with M (actual letter M). MenCYW begins with a X (actual letter X). The 5 digits remain the same for the three
	Menveo, MenCWY-135 liquid conjugate component	46028-208-01	46028-219-11	M#####	X##### (Diluent)	

Company	Brand Name	NDC		Lot Number Patterns*, English Notation		Note
		Unit of Sale (Outer box)	Unit of Use (Vial/Syringe)	Unit of Sale (Outer box)	Unit of Use (Vial/Syringe)	
	(Liquid Diluent)	(Code Retired on April 30, 2018)	(Code Retired on April 30, 2018)			components in the same UoS. A one to one UoU to UoS mapping is possible, substitute "M" with "A" in 1 <sup>st</sup> character
Current Menveo Pattern – Effective as of May 2018**						
GSK	Menveo, MenA lyophilized conjugate component (Lyophilized vaccine powder)	58160-955-09	58160-958-01	<u>AMVA####</u>	<u>AMAA####</u> <b>(Lyophilized)</b>	The 1 <sup>st</sup> character is always "A". The 2nd and 3rd characters on the UoS lot number is "MV"; the 2nd and 3rd characters on the UoU lot number is "MA". The last five characters are the same for the UoS and the UoU and follow the following pattern: 1 alpha, 3 numbers, 1 alpha (e.g. A123B).
	Menveo, MenCWY-135 liquid conjugate component (Liquid Diluent)	58160-955-09	58160-959-01	<u>AMVA####</u>	<u>AMXA####</u> <b>(Diluent)</b>	The 1 <sup>st</sup> character is always "A". The 2nd and 3rd characters on the UoS lot number is "MV"; the 2nd and 3rd characters on the UoU lot number is "MX". The last five characters are the same for the UoS and the UoU and follow the following pattern: 1 alpha, 3 numbers, 1 alpha (e.g. A123B).
Sanofi Pasteur	Typhim Vi syringe	49281-790-51	49281-790-88	<u>A####-#</u>	A####	UoS has a hyphen and an extra number at the end of the UoU lot number. First 5 characters same on UoS & UoU
Sanofi Pasteur	Typhim Vi vial	49281-790-20	49281-790-38	<u>A####-#</u>	A####	UoS has a hyphen and an extra number at the end of the UoU lot number. First 5 characters same on UoS & UoU
<p>*Key: 'A' indicates a capital alphabetical (alpha) character  A pound sign (#) indicates a number  Italicized, underlined, and red alpha-numeric character indicates a change from UoS and UoU</p> <p>** Note: for a while, both numbering patterns will be on the market</p>						

American Immunization Registry Association (14 June, 2018). Vaccine Lot Number Patterns: Unit of Sale/Unit of Use Guidance. Retrieved from [https://repository.immregistries.org/files/resources/596f7218ad93e/aira\\_sisc\\_vaccine\\_lot\\_number\\_guidance\\_20180614.pdf](https://repository.immregistries.org/files/resources/596f7218ad93e/aira_sisc_vaccine_lot_number_guidance_20180614.pdf).