### Background

Lot Number Patterns   
by Manufacturer and Vaccine Table

Some vaccine manufacturers use a different lot number pattern on the unit of use (UoU; e.g., vials and syringes) than on the unit of sale (UoS; e.g., carton) for specific vaccines. This may be done to denote a meaning such as the location of the manufactures’ facility or the packaging level. The variation in lot number between packaging levels poses a challenge to electronic systems that rely on the vaccine lot number to relate a vaccination encounter to vaccine inventory.

In early September 2014, CDC distributed a request to vaccine manufacturers asking them to identify any non-traditional lot conventions in use for vaccines currently sold in the U.S. market. Seven vaccine manufacturers responded.

### Table Use

The intent of this table is to facilitate identification and tracking of the appropriate lot numbers from inventory management to vaccine administration. Many health information management (HIM) systems reference the unit of sale lot number for inventory management, but reference the unit of use (vial/syringe) number during vaccine administration. The purpose of this table is to show the relationship between lot numbers used primarily for inventory and those used for vaccine administration. This table can be used to show patterns of lot numbers as a guide to derive the specific lot number. As more HIM systems adapt to take advantage of 2d barcoded vaccine products on both the unit of sale and unit of use, this table may prove particularly valuable.

**Lot Numbers on the UoS and the UoU are the same for these Manufacturers:**

MedImmune, Pfizer, Merck, Bio CSL



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### ****Lot Number Variations Based On Packaging Level****

| **Manufacturer** | **Brand** | **NDC** | | **Lot Number\*** | | **Lot Number Note** |
| --- | --- | --- | --- | --- | --- | --- |
| **Unit of Sale** | **Unit of Use** | **Unit of Sale** | **Unit of Use** |
| Sanofi Pasteur | ACTHIB | 49281-545-05 | 49281-547-58 | aa###aa**a** | aa###aa | UoS has extra alpha at end of lot number. First 7 digits same on UoU & UoS. |
| Sanofi Pasteur | IPOL vial | 49281-860-10 | 49281-860-78 | a####***-#*** | a#### | UoS has a hyphen and extra number at the end. First 5 digits same on UoU and UoS. |
| Sanofi Pasteur | IPOL syringe | 49281-860-10 | 49281-860-88 | a####***-#*** | a#### | UoS has a hyphen and extra number at the end. First 5 digits same on UoU and UoS. |
| Sanofi Pasteur | IMOVAX RABIES | 49281-250-51 | 49281-248-58 | a####***-#*** | a#### | UoS has a hyphen and extra number at the end. First 5 digits same on UoU and UoS. |
| Sanofi Pasteur | IMOGAM RABIES-HT | 49281-190-20 | 49281-190-58 | a####***-#*** | a#### | UoS has a hyphen and extra number at the end. First 5 digits same on UoU and UoS. |
| Sanofi Pasteur | Typhim Vi | 49281-790-51 | 49281-790-51 | a####***-#*** | a#### | UoS has a hyphen and extra number at the end. First 5 digits same on UoU and UoS. |
| Sanofi Pasteur | Typhim Vi | 49281-790-20 | 49281-790-20 | a####***-#*** | a#### | UoS has a hyphen and extra number at the end. First 5 digits same on UoU and UoS. |
| Novartis | Menveo (Antigen) | 46028-208-01 | 46028-218-11 | ***a***#### | ***b***#### | Alpha char in position 1 is different |
| Novartis | Menveo (Diluent) | 46028-208-01 | 46028-219-11 | ***a***#### | **b**#### | Alpha char in position 1 is different |
| Novartis | RabAvert vial | 63851-501-02 | 63851-512-11 | ######***a*** | ###### | UoS has an extra alpha character at the end. First 6 digits same for UoU and UoS. |
| Novartis | RabAvert syringe | 63851-501-02 | 63851-511-12 | **####**##a | ***aaaa***##a***a*** | There are two differences:   1. UoS has 7 characters and UoU has 8 (an additional alpha in the eighth position). 2. The first four characters in UoS are numeric; in UoU they are alpha. |
| GSK | ROTARIX | 58160-854-52 | 58160-809-01 | a##*a*a###a | a##**C**a###a (Antigen) | UoU Antigen has the letter “C” in the fourth position. |
| a##**D**a###a (Diluent) | UoU Diluent has the letter “D” in the fourth position. |
| GSK | MENHIBRIX | 58160-801-11 | 58160-851-01 | a##a***a***###a | a##a***a***###a (Antigen) | The UoS lot matches the UoU Antigen. |
| ***a***a##a###a***a*** (Diluent) | The UoU Diluent has an additional alpha at the beginning and at the end, but it drops the alpha that was in position 5 of the UoS and UoU Antigen. |

\*Key: **a** and **b** indicate an alphabetical, or alpha, character.   
 A pound sign (*#*) indicates a number.   
 Italicized, underlined, and red alpha-numeric characters indicate a change from UoS and UoU.