

Description

The nurse documents administration lot number for the Hepatitis B vaccine:

- Is prevented from ordering the Hepatitis B lot as it has expired.
- Documents administration from a different lot that is not expired.

Comments

No Comments

Pre-condition

Order is placed for Hepatitis B vaccine.

Post-Condition

The provider has been notified of the expired Hepatitis B vaccination lot. Documentation of a lot to be administered that is not expired is recorded in the EHR.

Test Objectives

Notify of Vaccine Dose Expiration: The EHR or other clinical software system notifies the provider administering a vaccine if the dose chosen for administration is expired.

Record Vaccine Information by Scanning 2D Barcode Found on Unit-of-Use for Vaccine

Administration: The EHR or other clinical software system allows users to record vaccination information from 2D barcodes (GS1 DataMatrix) found on unit-of-use (vial or pre-filled syringe) for each vaccine administered. This 2D barcode contains: the Global Trade Item Number (GTIN), expiration date and lot number. The National Drug Code and manufacturer data elements (NDC) is embedded in the Global Trade Item Number (GTIN). Alternatively, the manufacturer can be determined by mapping or cross-walking NDC or GTIN codes to manufacturer codes. The NDC and manufacturer data elements are later transmitted to an IIS by cross walking/mapping from the GTIN. The software system records this information as structured data elements.

Data Quality Checks: Integrate additional data quality checks into IIP Testing and Recognition to improve data quality and reduce rejections.

Note: The EHR or other clinical software system prevents specific data issues which would potentially result in IIS errors as defined by the AIRA Error Codes. This supports reducing data quality issues that could trigger the following AIRA-defined Error Codes:

- 2001: Indicates a conflict between the administration date in RXA-3 and the expiration date in RXA-16. In other words, it indicates that an expired vaccine was administered.


Evaluation Criteria

During the course of data entry for the variant information below, the EHR triggers the following data quality issues:

- Triggers indication that an expired vaccine was administered (2001)

The EHR records the following order information and Alert. The coded values are not expected to be displayed to the user, but it is expected that the value selected has the identified meaning, and it is expected that the system will use the coded value when the attribute is conveyed in later transactions:

The EHR records the following vaccine administration information, and using the 2D Barcode found on the Unit-of-Use for vaccine administration, automatically populates the Vaccine Type/product administered, the expiration date and the lot number:

Entered BY	Sandra Molina	
Ordering Provider	Frank Smith	
Entering Organization	Shoreline Pediatrics	
Vaccine Event information source	New immunization record (NIP001 00)	
Date/Time of Start of Administration	Current Date	
Vaccine Administered	hepatitis B vaccine, pediatric or pediatric/adolescent dosage (CVX 08) ENGRIX-B (NDC 58160-0820-43)	
Vaccine 2D Barcode		
Lot Number (Expired)	6332FK18	
Substance Expiration Date (Expired)	6/15/2021	Triggers indication that an expired vaccine was administered (2001)
Substance Manufacturer Name	GlaxoSmithKline Biologicals SA (MVX SKB)	
Alert	Alerts user to expired lot	

Notes

The full vaccination details are provided here to facilitate the documentation constraints and/or screens that may be required by the vendor in order to attempt to document the data of interest, but these are not verified until the next step. Only those attributes specified that are anticipated to result in data quality alerts are required for this step.

If the EHR or other clinical system is not supporting the Jurisdiction-specific eligibility code, then mark VFC Eligibility as non-VFC Eligible.