

#### Description

Since Anita is a healthcare worker with no evidence of immunity to Hepatitis B, the nurse administers a Hepatitis B vaccination to adult patient, Anita Francesca Marina:

- Documents all required information for the Hepatitis B vaccine

#### Comments

No Comments

#### Pre-condition

Order is placed for the Hepatitis B vaccine.

#### Post-Condition

The administration of the Hepatitis B vaccine is recorded in the EHR.

#### Test Objectives

**Record Vaccine Administration:** The EHR or other clinical software system records information about each vaccine administered. The EHR records this information as structured data elements, including, at a minimum: date administered, administering clinician, route of administration (e.g. intramuscular), site of administration (e.g., left arm), immunization type, lot number, manufacturer, Vaccine Information Statement date, quantity of vaccine/dose size and ordering clinician. The system also assures data quality, i.e., data entered are appropriate (e.g., avoid “oral” route for IM vaccines, and assure dose is appropriate for the vaccine).

**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 GTIN contains the National Drug Code (NDC) and manufacturer data elements. Implementers can use mapping tables to determine the manufacturer from this NDC. The software system records these elements as structured data elements so the immunization administration message can use them to include the NDC and manufacturer in the message to the IIS.

Note: Adult Patient

#### Evaluation Criteria

The EHR or other clinical software system records the following vaccine administration information. 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	Jessica Mason
Ordering Provider	Shannon Price
Entering Organization	Metro Primary Care
Vaccine Event information source	New immunization record (NIP001 00)
Date/Time of Start of Administration	Current Date
Vaccine Administered	hepatitis B vaccine, adult dosage (CVX 43) ENERGIX-B (58160-0821-05)
2D Barcode	
GTIN	10358160821056
Administered Amount (of Vaccine)	1
Administered Units (of Measure)	mL
Administration Notes	
Administering Provider	Jessica Mason
Administered-at Location	400 Shoreline Drive, Stamford Connecticut 06901
Lot Number	6942FL12
Substance Expiration Date	12/31/2022
Substance Manufacturer Name	GlaxoSmithKline Biologicals SA (MVX SKB)
Completion Status	Completed (CP)
Route of Administration	Intramuscular (NCIT: C28161, HL70162: IM)
Administration Site	Left Deltoid (HL70163: LD)
VFC Eligibility	No
Funding Source	Private
Dose	1 of 2
VIS Publication Date	8/15/2019
VIS Given Date	Current Date
VIS Fully Encoded Text-String	253088698300005911211015

**Notes**

The EHR does not need to specify a 'new immunization', as long as there is a way to indicate that it is a new immunization within the EHR, this is acceptable (e.g. the default interpretation of the data entry is that it is a new immunization and not historical).