

#### Description

The nurse administers the Hepatitis B vaccine:

- Documents all required information for the vaccine.

#### Comments

No Comments

#### Pre-condition

Order is placed for Hepatitis B vaccine.

#### Post-Condition

The Hepatitis B vaccination 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.

**Add Jurisdiction-Specific Vaccine Eligibility Code:** The EHR or other clinical software system demonstrates the ability to configure dose level vaccine eligibility codes per jurisdictional requirements. This includes tracking and exchanging a jurisdiction-specific dose level eligibility code for administered vaccines. Note that this capability only applies to newly administered doses, not historical doses.

#### Evaluation Criteria

The EHR 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:

|                                      |  |
|--------------------------------------|--|
| 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)<br>ENGRIX-B (NDC 58160-0820-43) |
| Vaccine 2D Barcode                   |                       |
| Administered Amount (of Vaccine)     | 0.5  |
| Administered Units (of Measure)      | mL   |
| Administration Notes                 |  |
| Administering Provider               | Sandra Molina  |
| Administered-at Location             | 400 Shoreline Drive, Stamford Connecticut 06901  |
| Lot Number                           | 6332FK26   |
| 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)  |
| Vaccine Program Eligibility          | IIP021 - Privately Insured   |
| Funding Source                       | Public non-VFC (VXC52)   |
| 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).

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