

### Description

The nurse administers the DTaP-hepatitis B and poliovirus vaccine:

- Documents all required information for the vaccine.

### Comments

No Comments

### Pre-condition

Prior Immunization History loaded and reconciled from the Immunization Registry. Vaccine forecast is available in the EHR indicating 6 vaccines are due: Hepatitis B, DtaP, Hib, IPV, Pneumococcal conjugate (PCV13) and Rotavirus.

Order is placed for DTaP-hepatitis B and poliovirus vaccine.

### Post-Condition

The DTaP-hepatitis B and poliovirus 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.

### 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:

|                                      |   |
|--------------------------------------|---|
| 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                 | DTaP-hepatitis B and poliovirus vaccine (CVX 110)<br>Pediarix (NDC 58160-0811-43) |
| 2D Barcode                           |  |
| GTIN                                 | 10358160811439  |
| 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                           | 6559FK32  |
| 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   |
| VIS Given Date                       | Current Date  |
| VIS Fully Encoded Text-String        | 253088698300026411211015  |

#### 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).