

### 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, 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 National Drug Code and manufacturer data elements (NDC) is embedded in the Global Trade Item Number (GTIN). Using mapping tables, the manufacturer can be determined from the NDC Code. 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.

### 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) 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).