

### Description

The SUT generates an unsolicited vaccine update (VXU - Z22 profile message) correctly and without omission according to supplied test data in the 'Test Data Specification' section of this test step.

This includes four doses of newly administered vaccines.

### Pre-condition

Lance Gaige Duncan Jr. is registered in the SUT. This was performed in Test Case 2.2.0.

Lance Gaige Duncan Jr. administered doses with 2D barcodes (PEDIARIX, Rotarix, and ActHIB) have been recorded in the SUT and are visible to SUT users. This was performed in Test Step 3.6.1.

Lance Gaige Duncan Jr. is administered dose without a scannable 2D barcode (Pevnar 20), it has been recorded in the SUT and is visible to SUT users. This was performed in Test Step 3.7.1.

Daniela Jennifer Wyatt is the practitioner.

### Post-Condition

The newly administered vaccine doses are visible in the SUT and the IIS.

Go to the Step 5.2.1 and then repeat the transmit 5.1.1 to receive and process the additional ACKs with issues to be processed by the SUT.

### Test Objectives

To test the ability that the SUT is able to send newly administration vaccine doses to the IIS.

The SUT links standard codes (i.e., LOINC for tests or evaluation tools, NDC codes for current immunizations, CVX for historical immunizations, MVX manufacturer codes, VIS codes, and appropriate codes for administration site, route, method, etc.) to discrete data elements associated with an immunization. Both NDC and CVX are required for new immunizations and CVX is required for historical.

Support for mother's maiden name, patient full middle name, next of kin, next of kin full middle name.

Support for both phone number and email of patient and first next of kin.

Support for patient consent

Support for VIS, funding source and VFC data

Support for Telecommunication Equipment Type

### Evaluation Criteria

The IIS received a single VXU message with multiple RXA segments from the SUT containing newly administered vaccine doses recorded in the SUT.

The IIS received a single VXU message with multiple OBX segments from the SUT containing VFC eligibility for the newly administered vaccine doses recorded in the SUT.

The VXU/Z22 message passes validation using the NIST Immunization VXU Validation Tool (Z22). The content of the message correctly reflects the test data (context-based) in accordance with the Test Data Specification and the Message Content.

The VXU content should match the information displayed below: (DOB and actual dates of administration must be present but are not evaluated)

This IIP test plan tests clients with NDC as the primary code set and CVX as an alternate code set. Please note that this configuration may vary among jurisdictions. NDC is required for all new administrations and CVX for historical but can include NDC if known.

Patient Information	
Element	Data
Patient Name	Lance Gaige Duncan, Jr.
Mother s Maiden Name	King
ID Number	1111
Date/Time of Birth	Use the HIMSS IIP Test Plan v11.0 Job Aid Today (day of test) the patient is 0 years, 1 months, and 17 days old
Administrative Sex	Male
Patient Address	749 Evergreen Ter. Unit A Springfield, OR 97477 USA
Phone Number	(541) 555-1111 (Cellular Phone = CP)
E-mail Address	IIPMP@gmail.com
Race	American Indian or Alaska Native
Ethnic Group	Not Hispanic or Latino
Multiple Birth Indicator	No
Birth Order	1
Immunization Registry Information	
Element	Data
Immunization Registry Status	Active
Immunization Registry Status Effective Date	Patient DOB from Job Aid
Publicity Code	Reminder/recall - any method
Publicity Code Effective Date	Today's date
Protection Indicator	No
Protection Indicator Effective Date	Today's date
Guardian or Responsible Party - 1	
Element	Data
Name	Ingrid Stacy Duncan
Relationship	Mother
Address	749 Evergreen Ter. Unit A Springfield, OR 97477 USA
Phone Number	(541) 555-1111 (Cellular Phone = CP)
E-mail Address	IIPMP@gmail.com
Guardian or Responsible Party - 2	
Element	Data
Name	Simon Isaiah Duncan, Sr
Relationship	Father
Address	749 Evergreen Ter. Unit A Springfield, OR 97477 USA
Phone Number	(541) 555-1233 (Cellular Phone = CP)
Vaccine Administration Information -1	
Element	Data
Administered Vaccine	PEDIARIX
Date/Time Start of Administration	Today's date
Administered Amount	0.5
Administered Units	mL

Administration Notes	New immunization record
Administering Provider	Daniela Jennifer Wyatt
Substance Lot Number	IIPVAXN01
Substance Expiration Date	9/27/2029
Substance Manufacturer Name	GlaxoSmithKline
Substance/Treatment Refusal Reason	
Completion Status	Complete
Action Code	Add/Insert
Route	INTRAMUSCULAR
Administration Site	Left Vastus Lateralis
Entering Organization	Oregon Family Medicine
Entered By	Daniela Jennifer Wyatt
Ordered By	Ramon Michael Bradshaw
Observations	
Element	Data
Vaccine Funding Source	Public
Vaccine Program Eligibility	VFC eligible - American Indian/Alaskan Native
Document Type	Multi Pediatric Vaccines VIS - 7/24/2023
Date VIS Presented	Today's date
Vaccine Administration Information - 2	
Element	Data
Administered Vaccine	ActHIB
Date/Time Start of Administration	Today's date
Administered Amount	0.5
Administered Units	mL
Administration Notes	New immunization record
Administering Provider	Daniela Jennifer Wyatt
Substance Lot Number	IIPVAXN05
Substance Expiration Date	09/27/2029
Substance Manufacturer Name	sanofi pasteur
Substance/Treatment Refusal Reason	
Completion Status	Complete
Action Code	Add/Insert
Route	INTRAMUSCULAR
Administration Site	Right Vastus Lateralis
Entering Organization	Oregon Family Medicine
Entered By	Daniela Jennifer Wyatt
Ordered By	Ramon Michael Bradshaw
Observations	
Element	Data
Vaccine Funding Source	Public
Vaccine Program Eligibility	VFC eligible - American Indian/Alaskan Native
Document Type	Haemophilus Influenzae type b (Hib) Vaccine VIS
Date VIS Presented	Today's date
Vaccine Administration Information - 3	
Element	Data
Administered Vaccine	Rotarix
Date/Time Start of Administration	Today's date
Administered Amount	1
Administered Units	mL
Administration Notes	New immunization record

Administering Provider	
Substance Lot Number	IIPVAXN07
Substance Expiration Date	09/27/2029
Substance Manufacturer Name	GlaxoSmithKline
Substance/Treatment Refusal Reason	
Completion Status	Complete
Action Code	Add/Insert
Route	ORAL
Administration Site	N/A
Entering Organization	Oregon Family Medicine
Entered By	Daniela Jennifer Wyatt
Ordered By	Ramon Michael Bradshaw
Observations	
Element	Data
Vaccine Funding Source	Public
Vaccine Program Eligibility	VFC eligible - American Indian/Alaskan Native
Document Type	Haemophilus Influenzae type b (Hib) Vaccine VIS
Date VIS Presented	Today's date
Vaccine Administration Information - 4	
Element	Data
Administered Vaccine	Prevnar 20
Date/Time Start of Administration	Today's date
Administered Amount	0.5
Administered Units	mL
Administration Notes	New immunization record
Administering Provider	Daniela Jennifer Wyatt
Substance Lot Number	LLBUAYMO68
Substance Expiration Date	09/27/2029
Substance Manufacturer Name	Pfizer, Inc
Substance/Treatment Refusal Reason	
Completion Status	Complete
Action Code	Add/Insert
Route	INTRAMUSCULAR
Administration Site	Left Deltoid
Entering Organization	Oregon Family Medicine
Entered By	Daniela Jennifer Wyatt
Ordered By	Ramon Michael Bradshaw
Observations	
Element	Data
Vaccine Funding Source	Public
Vaccine Program Eligibility	VFC eligible - American Indian/Alaskan Native
Document Type	Pneumococcal Conjugate Vaccine (PCV13_PCV15_PCV20) VIS
Date VIS Presented	Today's date

#### Notes

The VIS encoded value that is associated with the most current VIS for the vaccines and evaluated in the transmit message, can be found in the CDC VIS Lookup Table located here:  
<https://www.cdc.gov/vaccines/programs/iis/code-sets/vis-barcode-lookup-table.html>