**HIMSS IIP Release Notes for Version 1.9.12 May XX, 2023**

**Tool Software**

* [To be updated by NIST, if needed]

**HIMSS-AIRA Immunization Integration Program (IIP) CDC Test Plan Changes**

This test plan will be used to test the HIMSS-AIRA Immunization Integration Program: Immunization-Related Capabilities and Guidance developed under a cooperative agreement with the American Immunization Registry Association (AIRA) and the Centers for Disease Control and Prevention (CDC). All test cases are required to be executed where the System Under Test includes test objectives for which conformance is claimed. The test plan includes functional and interoperability tests, including Vaccine Update Notifications (HL7 V2.5.1 VXU/Z22) and Query and Response (Evaluated History and Forecast Group Z44/Z42).

**HIMSS-AIRA IIP CDC Test Plan v10.5 (5/2023)**

This version is updated for use in the early 2023 test cycle. Unlike previous test cycles, it is expected that there will be two scheduled test plan releases in 2023.

* Release 10.5 is based upon the 10.0 release with minor changes such as advancing years by one when appropriate (dates of administration, birth, observation, privacy status, publicity status, and registry status). Annual influenza vaccination NDCs have been updated to reflect NDCs used in the 2022-2023 flu season. One additional test case to update the immunization record was re-introduced, as it had been inadvertently dropped in Release 10.0.
* Release 11.0 will include all similar updates to the changes made in release 10.5 to support late 2023 – 2024 immunization requirements. In addition, it may include additional changes to reflect changes in the capability requirements for the IIP Program.

Both releases align with ONC 2015 Certification Criteria for § 170.315(f)(1) Transmission to Immunization Registries. This test plan is approved by ONC to demonstrate conformance to these criteria.

The 10.5 (early 2023) release includes: (internal bug/issue IDs appear in parentheses):

* Clarified the presentation and inventory quantity-on-hand for Pfizer-BioNTech COVID-19 Vaccine COVID-19 (NDC​ 59267-1000-01) vaccine distributed in packages containing 75 multidose vials (MDV). Each MDV contained 6 doses (75 MDV \* 6 doses = 450 doses). (184)
* Removed the Pfizer-BioNTech COVID-19 Vaccine COVID-19 barcodes from the inventory and Anitia Francesca Marina Visit Enter Orders and Immunizations. The recording of the COVID-19 should be done manually as there are inconsistencies in the available barcode/GITN information currently widely used.
* 2D barcodes for version 10.5 conform to the GS1 DataMatrix standard found on many vaccine unit-of-use presentations. Prior versions of the test plan used data matrices conforming to the ECC 200 Standard (Data Matrix), a similar standard that varies slightly from the GS1 DataMatrix code.
* The vaccination source for Juana Mariana Vazquez Visit (group 2), Transmit Immunization Report (case 3), Transmit the immunization report to the Immunization Registry (step 2.3.1) line 9 was corrected from “1^Historical information – source unspecified^NIP001” to “00^New immunization record^NIP001”
* The IIS-supplied adverse reactions were removed from line 105 of Juana Mariana Vazquez Visit (group 2), Query the Registry(case1), View and Compare the response to request for vaccination history (step 2.1.3): OBX|1|CE|31044-1^Reaction^LN|1|VXC11^convulsions (fits, seizures) within 72 hours of dose^CDCPHINVS||||||F|||20170323||||||||||| (156)
* Improved data consistency:
  + VIS presentation dates equal vaccine administration dates (171)
  + Year of birth updated for Anita Francesca to be 1997 to enable testing of data entry error where year of death is documented as 1992 (151)
  + Serology lab date for Anita Francesca Marina – initial load now matches transmit step (159, 160, 161, 162)
  + Route and date of administration for Juana Mariana Vazquez lot number 6352FK1 (163)
  + Expiration date and date of administration for Juana Mariana Vazquez lot number 6352FK1 (82, 146)
  + Patient’s DOB, message privacy indicator date, publicity date, and observation date now align for Juan Marcel Marina (67)
  + COVID-19 EUA information (VIS) publication date changed to “11/22/22” from “7/8/22” (141, 149)
* Birth order of “1” replaced with null or not applicable for adult patient Anita Francesca Marina not part of a multiple birth
* Format and stylization corrected for instances of:
  + “DTaP” changed to “DTaP” (63)
  + “.25” changed to “0.25”
  + “Ml” changed to “mL” (91)
  + Leading zeroes added to days less than 10
  + Leading zeros added to months less than 10
  + “20” added to make years four-digits long
* Spacing between annual influenza’s first doses increased from 23 days to 30 days for Juan Marcel Marina (153, 154, 155)
* Sanofi Pasteur stopped producing Fluzone Quadrivalent Influenza, injectable, quadrivalent, preservative-free, pediatric (CVX 161, UoU NDC 49281-05\*\*-00) for the 2022-2023 influenza season. Fluzone pediatric was also inappropriately administered to test cases three years and older. In the test plan, Fluzone pediatric was replaced with GlaxoSmithKline’ FLUARIX QUADRIVALENT, influenza, injectable, quadrivalent, preservative free (CVX 150, UoU NDC 58160-0\*\*\*-41) approved for individuals six months and older (57, 58, 59, 79, 88, 130)
* In prior releases, the vaccine update for Juana Mariana Vazquez was causing issues with quantity-on-hand inventory. To avoid these issues, the update message reflects a change in the body site administered from the left deltoid to the right deltoid (168).

**HIMSS-AIRA IIP CDC Test Plan v10.0 (1/27/2022)**

This release includes all of the changes made in the interim Release v9.0 plus the following changes:

* Testing for three new requirements:
  + Requirement 9.4 Add Jurisdiction-Specific Vaccine Eligibility Code
  + Requirement 9.5 Acknowledgment Data Reporting
  + Requirement 5.15 Record Vaccine Information by Scanning 2D Barcode Found on Unit-of-Use for Vaccine Administration
* Removal of testing for deprecated requirement: 2.6 Notify Public Health Immunization Registry (IIS) of Update from Adverse Event
* Updated messages to remove submission of adverse events and to correct refusal messages.
* Added ADT Messages to Initial Data Load for all patients to minimize data entry and notes to indicate the manual entry of one of the patient demographics and clinical history will be required (or reviewed) to ensure that entry of the required fields is possible.
* Annual update of all dates to age the patient and associated vaccine products/vaccinations.
* Removed data elements for County and Birth location information
* Added Publicity Code Effective Dates.
* Added specific data entry instructions for VIS data.
* Updated new vaccination to replace the temporary Anthrax concepts with Pfizer Covid products along with associated qualifying language relating to the substituted vaccine.
* Editorial consistency updates.

**HIMSS IIP CDC Test Plan v9.0 Interim Release**

The 2019/2020 release included:

* Additional clarification in the notes offering additional guidance regarding variations such as:
  + Forecasting variation relating to patient age at the time the test is run
  + Clarification that the 11-digit NDC code with dashes is required
  + Clarifying new vaccine information needs to be added before inventory can be added for a specific vaccine,
* Updates to products reflecting those available at the time of the documented vaccine, primarily for influenza vaccines with frequent product changes,
* Date corrections to align the message content with the test instructions
* Administration site corrections to align the message content with the test instructions
* Added testing for the requirement to Produce Vaccine History Report
* Updates to use of EHR term and clarification that criteria applies to EHRs or other clinical software systems
* Added testing for Select One or More Patients
* Added testing for adding new vaccine codes
* Added testing for Receive Dose Not Indicated Alert Upon Vaccine Administration
* Added testing for Update Patient Immunization Schedule
* Added testing for Provide Access to Printable Immunization Record
* Added testing for Review Patient-Provided Immunization Information
* Added testing for Provide Access to Update Immunization Information
* Added testing for Notify Patients of Immunization Status
* Added testing for SOAP-based CDC WSDL
* Added testing for Data Quality Checks

**ONC 2015 Test Plan**

* Updated by NIST Immunization Test Suite v2.0.12: <https://hl7v2-iz-r1-5-testing.nist.gov/iztool/>

**Profile/Valueset/Constraints**

* Profile updated by NIST Immunization Test Suite v2.0.12: <https://hl7v2-iz-r1-5-testing.nist.gov/iztool/#/doc>
* Valueset updated by NIST Immunization Test Suite v2.0.12: <https://hl7v2-iz-r1-5-testing.nist.gov/iztool/#/doc>
* Constraints no updated. Reference is NIST Immunization Test Suite v2.0.12: <https://hl7v2-iz-r1-5-testing.nist.gov/iztool/#/doc>