Immunization Integration Program (IIP) Testing Requirements by Capability

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Description:

The purpose of this document is to clearly present the testing requirements of the IIP relative to the IMMUNIZATION INTEGRATION PROGRAM: IMMUNIZATION-RELATED CAPABILITIES AND GUIDANCE UPDATE – January 26, 2022.

The Immunization Integration Program has now progressed to encourage clinical software testing and validation, and provides recognition for EHR vendors successfully completing the testing process.

The Immunization Integration Program has established a Technical Council which continue to review public input in order to inform and improve the Program and its testing, validation and recognition processes to ensure success.

KEY:

The By **Capability tab** maps the individual capabilities testing to the requirements section within the IMMUNIZATION-RELATED CAPABILITIES AND GUIDANCE Document. The individual capabilities included in the based testing are all numbered. There are a few completely Trial capabilities which are included as the IIP Testing & Recognition initiative is still gathering data to determine how and if these requirements should be in some way required in the testing.

Test may be:

Required – This is the minimum set of IIP Capabilities that must be supported, including the ONC 170.315 (f)(1) required Capabilities, to pass the IIP test plan.

90% Required – Systems are required to pass 90% of these Capabilities. This means that the Electronic Health Record (EHR) vendor product may choose to not implement some of these Capabilities. If vendors have implemented at least 90% of these Capabilities (**21 or more** of the tests), in addition to the Required Capabilities, they will pass the IIP test plan.

Trial - Capabilities that are in the process of being vetted to promote them as part of the 90% Required as either stand-alone or part of existing Capabilities.

Discovery – Capabilities which are considered Discovery and included for the IIP to gather information on additional Capabilities or features to determine if, how, where and when they should be required in the IIP test plan.

The By **Test Tool Step tab** maps the individual test steps to the Capabilities. In order to pass a given Capability all of the required test steps must pass.

NOTE: Capabilities which support the implementation of a Test Step are noted in blue.

Immunization Integration Program (IIP) Testing Requirements

Core Capabilities (all are required to be tested)

Capability	IIP Requirement	Req.#	Requirement Description	Test Steps That Must Be Passed
1	Required	2.3	Compare Public Health Immunization Registry (IIS) Immunization History to EHR	■Initial Data Load→Juana Mariana Vazquez Initial Data Load:
			Immunization History: The public health immunization registry has returned the	→Step 2: Enter Initial Immunization Data: Immunizations from Practice
			requested immunization history for a patient (Return Evaluated Immunization	→Step 3: Enter Initial Immunization Data from Another Practice
			History and Forecast (Z42) – HL7 Version 2.5.1 Implementation Guide for	→Step 6: Enter Initial Immunization Data Reported by Parent
			Immunization Messaging Release 1.5). The EHR is able to display the evaluated	■Juana Mariana Vazquez Visit →Query the Registry
			immunization history received from the registry as well as the immunization history	→Step 3 : View and Compare Response to Request for Vaccination History
			already present in the EHR so that a user can compare them. The EHR provides a	→Step 6: Reconcile and import vaccinations from Evaluated History and Forecast
			way for the provider to view both histories, determine what is different (if	
			anything), and update the existing EHR immunization history with new information	■Juan Marcel Marina Visit→Query the Registry
			from the public health registry if he or she chooses to do so. The system must store	→Step 3: View and Import response to Request for Vaccination History
			the new information as structured data as part of the patient's local immunization	
			history and include the time of the update and the source of the new information.	■Initial Data Load→Anita Francesca Marina Initial Data Load
				→ Step 4 Provider Review and Entry of Immunization Data for Anita Francesca Marina Provided by Patient
14	Required	2.2	Request / Receipt of Patient Immunization History: The system sends a request to	■Juana Mariana Vazquez Visit→Query the Registry:
			the public health immunization registry "on demand," or in advance for those with	→Step 2: Query Registry for Vaccination History and Forecast
			scheduled appointments. The request includes the identifying information the	
			immunization registry needs to match each patient with those in the registry	■Juan Marcel Marina Visit → Query the Registry:
			including, if present, the mother's maiden name, a multiple birth indicator, and the	→Step 2: Query Registry for Vaccination History and Forecast
			birth order. The request also is sent in a pre-determined format the registry can	
			read and interpret (Request Evaluated Immunization History and Forecast (Z44) -	■Juana Mariela Gonzales Visit→Query the Registry:
			HL7 version 2.5.1 Implementation Guide for Immunization Messaging Release 1.5).	→Step 2: Query Registry for Vaccination History and Forecast
				■Juana Maria Gonzales Visit→Query the Registry:
				→Step 2: Query Registry for Vaccination History and Forecast Too Many Matches Found Response
				→Step 4: Query Registry for Vaccination History and Forecast No Persons Found Response
				→Step 6: Query Registry for Vaccination History and Forecast
				■Anita Francesca Marina Visit→Query the Registry:
				→Step 2: Query Registry for vaccination history and recommendations for Anita Francesca Marina
21	Required	5.7	Review Patient Immunization History: The EHR or other clinical software systems	■Juana Mariana Vazquez Visit→Query the Registry:
			displays vaccine history by vaccine series.	→Step 3: View and Compare Response to Request for Vaccination History
				→Step 6: Reconcile and Import Vaccinations from Evaluated History and Forecast
				■Juan Marcel Marina Visit→Query the Registry
				→Step 3: View and Import Response to Request for Vaccination History
				■Anita Francesca Marina→Querv the Reaistry
				•Anita Francesca Marina→Query the Registry →Step 3: View and import response to request for vaccination history for adult patient Anita Francesca Marin

22	Doguino d	Г 11	Transmit Chandrad Deticat Immunication History Departs The FUD an other clinical	Lunga Maringa Vargues Visit \ Transport to many institutes and
23	Required	5.11	Transmit Standard Patient Immunization History Report: The EHR or other clinical	· ·
			software system directly or indirectly through an intermediary creates and transmits	· · · · · · · · · · · · · · · · · · ·
			a report of a patient's newly administered or newly identified immunization history	→Step 2: Receive ACK Z23 from Immunization Registry
			to public health immunization registries.	
				■ Juan Marcel Marina Visit → Transmit Immunization Report:
				→Step 1: Transmit the Immunization Report
				→Step 2: Receive ACK Z23 from Immunization Registry
				→Step 3: Transmit Delete for Vaccine Recorded in Error
				→Step 4: Receive ACK Z23 from Immunization Registry
				■Juana Mariela Gonzales Visit→Transmit Immunization Report:
				→Step 1: Transmit the Immunization Report
				→Step 2: Receive ACK Z23 from Immunization Registry
				■Juana Maria GonzalesVisit→Transmit Immunization Report - Error Handling:
				→Step 1: Transmit the Immunization Report - Fatal Error Handling
				→Step 2: Receive ACK Z23 Fatal Error - CVX Code
				→Step 3: Transmit the Immunization Report - Warning Handling
				- Step 4: Receive ACK Z23 Warning - Invalid Value
				→Step 5: Transmit the Immunization Report - Multiple Warning Handling
				→Step 6: Receive ACK Z23 Multiple Warnings
				■Anita Francesca Marina Visit→Transmit Immunization Report:
				→Step 1: Transmit the Immunization Report
				→Step 2: Receive ACK Z23 from Immunization Registry
24	Required	3.1	View Immunization Forecast: The EHR or other clinical software system provides a	•Juana Mariana Vazquez Visit →Query the Registry
	Neganea	5.1	view of the immunization forecast provided by the IIS. The display includes the	→Step 5: View the Vaccination Forecast
			recommended vaccines and their associated dates (e.g., earliest, recommended,	7 Step 3. Flew the Facemanon Forecast
			past due, latest) for each vaccine included in the forecast.	
			past due, latesty for each vaccine included in the forecast.	

Subject to 90% Required Capabilities (21 or more must be tested).

The IIP would like to see Trial and Discovery Capabilities tested. Based on feedback it is anticipated that these will be moved to the 90% required in future years.

	IIP Requirement	Req. #	Requirement Description	Test Steps That Must Be Passed
2	90% Required	5.6	Enter Vaccination Order: The EHR or other clinical software system allows providers	■Juana Mariana Vazquez Visit→Enter Orders and Immunizations
			to order immunizations for a patient using filters for type of vaccine, including	→Step 1: Order IPV and View Prior Reaction
			combination vaccines.	→Step 6: Order Influenza Vaccine
				■Juan Marcel Marina Visit →Enter Orders and Immunizations:
				→Step 1: Orders Administration of Hepatitis B Vaccine
				→Step 2: Orders Administration of DTaP Vaccine and Alerted that the Dose is Too Early
3	90% Required	7.1	Identify Adverse Event: The EHR or other clinical software system enables capture	■Initial Data Load→Juana Mariana Vazquez Initial Data Load
			of structured data regarding adverse events.	→Step 3: Enter Initial Immunization Data from Another Practice
				■Juana Mariana Vazquez Visit→Juana Mariana Vazquez Transmit Immunization Report
				→Step 3: Record an adverse reaction

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4	90% Required	5.8	Link Standard Codes to Immunization Data: The EHR or other clinical software	■Juana Mariana Vazquez Visit → Transmit Immunization Report
			system links standard codes (i.e., LOINC for lab tests or evaluation tools, SNOMED	ightarrowStep 1: Transmit the immunization report to the Immunization Registry
			CT for conditions or observations, NDC codes for current immunizations, CVX for	
			historical immunizations, appropriate codes for administration site, route, method,	■Juan Marcel Marina Visit→ Transmit Immunization Report
			etc.) to discrete data elements associated with an immunization.	→Step 1: Transmit the immunization report to the Immunization Registry
				→Step 3: Transmit Delete for Vaccine Recorded in Error
				■Juana Mariela Gonzales Visit → Transmit Immunization Report
				→Step 1: Transmit the immunization report to the Immunization Registry
				7 Step 1. Wanshire the miniamedator report to the miniamedator registry
				■Juana Maria Gonzales Visit→ Transmit Immunization Report - Error Handling
				→Step 1: Transmit the immunization report to the Immunization Registry – Fatal Error
				→Step 3: Transmit the Immunization Report for Juana Maria Gonzales - warning handling
				→Step 5:Transmit the Immunization Report for Juana Maria Gonzales - Multiple warning handling
				■Anita Francesca Marina Visit → Transmit Immunization Report
				→Step 1: Transmit the immunization report to the Immunization Registry
5	90% Required	3.4	, ,	•Initial Data Load→Juan Marcel Marina Initial Data Load
			clinical software system notifies the provider of any conflicts between	→Step 2: Enter Clinical History
			recommended vaccines in the updated forecast and the patient's current or	
			historical diagnoses.	■Juan Marcel Marina Visit→Query the Registry for Juan Marcel Marina
				→Step 4: View the vaccination forecast for Juan Marcel Marina
				■Juana Mariela Gonzales Visit→Enter Orders and Immunizations
				→Step 1: Enter Initial Clinical Information
6	90% Required	7.3	Notify of Previous Adverse Event: The EHR and other clinical software system alert	Initial Data Load→Juana Mariana Vazquez Initial Data Load
ı "I	3070 Required	7.5	providers to previous adverse events for a specific patient, in order to inform clinical	l ·
			decision-making when providers view an existing immunization record.	7 Step 3. Enter made minimum Edita from 7 mother 17 dedec
				■Juana Mariana Vazquez Visit→Enter Orders and Immunizations
				→Step 1: Order IPV and View Prior Reaction
7	90% Required	4.4	Notify of Vaccine Dose Expiration: The EHR or other clinical software system	Juan Marcel Marina Visit→Enter Orders and Immunizations
'	30% Required	4.4	notifies the provider administering a vaccine if the dose chosen for administration is	
			expired.	7 Step 4. Necords Hepatitis B vaccine Lot Number with Expired Lot Alert
			Note: At one time there was a duplicate Capability 30 that has been re-used).	
Q	90% Required	5.4	Notify of Vaccine Dose Ineligibility: The EHR or other clinical software system	■Juan Marcel Marina Visit→Enter Orders and Immunizations
	50% Nequired	J. +	provides a method for alerting a provider if a vaccine is selected for a patient who is	
			not eligible for the inventory item selected.	7-5tcp 6. Necords Influenza vaccine Administration with VI C Liigibility Checking
٥			Intentionally Left Blank	
9			interictionally Left Dialik	
10	90% Required	5.14	Produce Immunization Forecast Report: The EHR or other clinical software system	■ Juana Mariana Vazquez Visit→Display Immunization Report
			creates a list of immunizations to be administered within a specified timeframe.	→Step 1: Produce an Immunization Report Including All History
11	90% Required	6.1	Produce Population-Level Report: The EHR or other clinical system generates	■Reporting→Due and Overdue Immunizations
			aggregate, population-level reports based on known patient immunization data.	→Step 1: Produce Overdue Immunizations Cohort Report
43	000/ Daguing d	F 10	Duadres Standard Dationt Immunication History Departs The SUD as ather all standard	Lugana Maxima Varguar Vicit > Dienlau Imperiorità a Depart
12	90% Required	5.10		Juana Mariana Vazquez Visit→Display Immunization Report
			software system produces a report of a patient's immunization history that is	→Step 1: Produce an Immunization Report Including All History
43			appropriate for various entities, such as schools and day-care centers.	
13			Intentionally Left Blank	

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15	90% Required	3.6	Receive Dose Not Indicated Alert for Single Vaccine Order: The EHR or other	Initial Data Load → Juana Mariana Vazquez Initial Data Load
			clinical software system notifies the provider in instances when there are single or	→Step 2: Enter Initial Immunization Data: Immunizations from Practice
			combination vaccine orders that are inconsistent with the expected timing intervals	
			included in the vaccine forecast. Inconsistencies include suggestion of different	Juana Mariana Vazquez Visit→Query the Registry:
			date(s) for ordering the vaccine(s) or indication the vaccine(s) is/are no longer	→Step 2: Query the Registry for Vaccination History and Forecast
			required.	→Step 3: View and Compare Response to Request for Vaccination History
				→Step 6: Reconcile and Import Vaccinations from Evaluated History and Forecast
				■Juana Mariana Vazquez Visit→Enter Orders and Immunizations:
				→Step 4: Enter Immunization Data for MMR Given 2 Weeks Prior
				→Step 5: Attempt to Order Varicella Dose
				■Juan Marcel Marina Visit→Query the Registry
				→Step 3: View and Import Response to Request for Vaccination History
				■Juan Marcel Marina Visit→Enter Orders and Immunizations
				→Step 2: Orders Administration of DTaP Vaccine and Alerted that the Dose is Too Early
16	90% Required	5.3	Record Past Immunizations: The EHR or other clinical software system allows	■Initial Data Load→Juana Mariana Vazquez Initial Data Load:
			providers to enter information about immunizations given elsewhere (e.g., by	→Step 2: Enter Initial Immunization Data: Immunizations from Practice
			another doctor, at a public health clinic, pharmacy, etc.) with incomplete details.	→Step 3: Enter Initial Immunization Data from Another Practice
				→Step 6: Enter Initial Immunization Data Reported by Parent
				■Juana Mariana Vazquez Visit→Enter Orders and Immunizations
				→Step 4: Enter Immunization Data for MMR Given 2 Weeks Prior
				7 Step 4. Enter Infinitumzation Butta for Wilvin Given 2 Weeks Thor
				Initial Data Load→JAnita Francesca Marina Initial Data Load:
				→Step 4: Provider Review and Entry of Immunization Data for Anita Francesca Marina Provided by Patient
17	90% Required	5.2	Record Vaccine Administration Deferral: The EHR or other clinical software system	Juana Mariana Vazquez Visit→Enter Orders and Immunizations:
-	30/3 Nequil eu	3.2	allows a user to enter a reason or reasons why a specific immunization was not	→Step 1: Order IPV and View Prior Reaction
			given to a patient (e.g., due to contraindication, refusal, etc.). The system also	→Step 3: IPV Parental Refusal
			stores that information in a structured way so it can be reported and analyzed as	7 Step 5. II V Furchal Nerdadi
			needed.	Juana Mariela Gonzales Visit→Enter Orders and Immunizations:
			lineaca.	→Step 1: Enter Initial Clinical Information
				→Step 2: Enter a Deferral for the Vaccines Due
18	90% Required	5.9	Record Vaccine Administration: The EHR or other clinical software system records	Juana Mariana Vazquez Visit→Enter Orders and Immunizations:
	30/3 Nequil eu	3.3	information about each vaccine administered. The EHR records this information as	→Step 8: Record Influenza Vaccine Administration
			structured data elements, including, at a minimum: date administered,	7 Step 6. Necora myraenza vaceme nammiseration
			administering clinician, route of administration (e.g. intramural), site of	Juan Marcel Marina Visit →Enter Orders and Immunizations:
			administration (e.g., left arm), immunization type, lot number, manufacturer,	→Step 3: Attempt to Record HepB Vaccine Administration Route with Data Validation Checking
			Vaccine Information Statement date, quantity of vaccine/dose size and ordering	→Step 5: Record Hepatitis B Vaccine Administration
			clinician. The system also assures data quality, i.e., data entered are appropriate	→Step 7: Record Influenza Vaccine Administration
			(e.g., avoid "oral" route for IM vaccines, and assure dose is appropriate for the	7 Step 7 Theore injuding vaccine ranning addin
			vaccine).	Juana Maria Gonzales Visit→Enter Orders and Immunizations
			vaccine j.	→Step 1: Record Combo Vaccine Administration
				75tcp 1. Necora combo vaccine Administration
				■Anita Francesca Marina Visit→Enter Orders and Immunizations
				→Step 2: Record Vaccine Administration for Hepatitis B
				→Step 3: Record Vaccine Administration for New Vaccine

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19	90% Required	1.1	,	Initial Data Load→Juana Mariana Vazquez Initial Data Load
			to enter distinguishing information about patients so that providers can uniquely	→Step 1: Enter Initial Demographic Data for New Patient
			identify patients who have similar sounding names or other similar identifying	
			information. For example, twins living in the same household will have similar dates	
			of birth, addresses, and may have similar names. EHRs or other clinical software	→Step 1: Enter Initial Demographic Data for New Patient
			must be able to store information to successfully match with patients in	
			immunization registries, if the information is available. Specific to immunization	■Initial Data Load→Juana Mariela Gonzales - Initial Data Load
			registries, that information includes the mother's maiden name, whether the	→Step 1: Enter Initial Demographic Data
			patient was part of a multiple birth, and the birth order (i.e., ordinal number of	
			birth, first, second, etc.). This information allows the provider to correctly identify	■Initial Data Load→Juana Maria Gonzales Initial Data Load
			the patient and also helps ensure a match when the EHR send the patient's	→Step 1: Enter Initial Demographic Data
			information to external systems such as an immunization registry.	
				■Initial Data Load→Anita Francesca Marina Initial Data Load
				→Step 2: Enter Initial Demographic Data
20	90% Required	2.4	Request/Receive Patient Immunization Data and Identify Source: The EHR or other	
	·		clinical software system stores immunization history accepted electronically from	→Step 2: Enter Initial Immunization Data: Immunizations from Practice
			other sources (such as a public health immunization registry consistent with HL7	→Step 3: Enter Initial Immunization Data from Another Practice
			version 2.5.1, Implementation Guide for Immunization Messaging Release 1.5) or	→Step 6: Enter Initial Immunization Data Reported by Parent
			communicated by the patient and manually entered by the clinician. When viewing	y step of lines minds minds and reported by raisein
				Juana Mariana Vazquez Visit→Query the Registry
			administered by the practice, which were entered historically as patient-reported,	→Step 3: View and Compare Response to Request for Vaccination History
			and which were accepted electronically from the public health registry.	→Step 6: Reconcile and Import Vaccinations from Evaluated History and Forecast
			and which were accepted electronically from the public fleatur registry.	7 step 6. Neconcile and import vaccinations from Evaluated History and Forecast
				- Lugna Mariana Vazavaz Visit \ Enter Orders and Immunizations
				Juana Mariana Vazquez Visit→Enter Orders and Immunizations
				→Step 4: Enter Immunization Data for MMR Given 2 Weeks Prior
				- Ivan Marroel Marring Visit Novementh a Registrary
				Juan Marcel Marina Visit→Query the Registry:
				→Step 3: View and Import Response to Request for Vaccination History
				■Juana Mariela Gonzales Visit→Query the Registry:
				→Step 3: View and Import Response to Request for Vaccination History
				-7-step 5. View und import response to request for vaccination history
				- Juana Maria Conzalos Visit - Quary the Begistry
				■Juana Maria Gonzales Visit→Query the Registry:
				→Step 3: Error Handling - Too Many Matches Found
				→Step 5: Error Handling - No Persons Found
				→Step 7: View and Import Response to Request for Vaccination History
				Initial Data Load→Anita Francesca Marina Initial Data Load:
				→Step 4: Provider Review and Entry of Immunization Data for Anita Francesca Marina Provided by Patient
				■Anita Francesca Marina Visit→Query the Registry
				→ Step 3: View and Compare Response to Request for Vaccination History
22	90% Required	1.2	Select New Patient: The EHR or other clinical sotware system must allow a user to	■Juana Mariana Vazquez Visit→Query the Registry
			distinguish information about patients with similar names or identifying information	→Step 1: Select Patient
			in order to select the right patient from the providers' EHR or other clinical	
			software. This information is crucial for identifying and selecting the correct patient.	
			For example, twins living in the same household will have similar dates of birth,	→Step 1: Select Patient
			addresses, and may have similar sounding names. In order to match patients with	
			those already in the immunization registry, the EHR or other clinical software should	
			,	→Step 1: Select Patient
			of a multiple birth, and if so, the order of birth (when such information is available).	
				■Juana Maria Gonzales Visit→Query the Registry:
			must be updated based on local rules.	→Step 1: Select Patient

25	90% Required	3.2	View Reconciled Immunization Forecast: The EHR or other clinical software system	■Juana Mariana Vazquez Visit→Query the Registry
			has the ability to re-evaluate and update the immunization forecast using a patient's	→Step 7: View the updated vaccination forecast for Juana Mariana Vazquez
			newly updated immunization history. Forecasts are updated following reconciliation	
			of immunization data contained in the public health immunization registry with	■Juan Marcel Marina Visit →Query the Registry
			immunization data contained in the EHR. Processing the new forecast can be	→Step 4: View the Vaccination Forecast for Juan Marcel Marina
			internal to the EHR or it can use an external forecasting service, but should	
			-	■Juana Mariela Gonzales Visit→Query the Registry
				→Step 4: View the Vaccination Forecast for Juana Mariela Gonzales
				, , , , , , , , , , , , , , , , , , , ,
				■Juana Maria Gonzales Visit→Query the Registry
				→Step 8: View the Vaccination Forecast for Juana Maria Gonzales
				7 Step 6. View the Vaccination i Sreedst for Stanta Maria Conzules
				■Initial Data Load→Anita Francesca Marina Initial Data Load:
				→Step 5: Enter Clinical History for Anita Francesca Marina
				-75tep 3. Enter clinical history for Annia Francesca Warina
				- Anita Francesca Marina Visit \ Quary the Begintry
				■Anita Francesca Marina Visit→Query the Registry
36	000/ 00	0.1		→ Step 4: View the vaccination recommendations for Anitia Francesca Marina
26	90% Required	8.1	Provide Access to Patient Immunization Record: The EHR or other clinical software	·
				→ Step 1: Produce an Immunization Report Including All History
				→Step 2: Provide access to Printable Immunization Record for Juana Mariana Vazquez
	000/ 5 : :		system such as a patient portal).	De la deservación de la contraction de la contra
27	90% Required	4.2	1 .	■Review Inventory → View Inventory
			clinical sotware system updates the vaccine inventory to ensure the correct count of	→Step 1: View updated vaccine inventory
			remaining available vaccine inventory.	
				[Vaccines administered for Juana Mariana Vazquez, Juan Marcel Marina, Juana Maria Gonzales and Anita
				Francesca Marina.
				Demonstrates the ability to view updated inventory supply.]
28	90% Required	4.1	1	■Initial Data Load→Enter Inventory→Step 2: View Inventory
			presents a list of vaccine antigens available for administration to patients (i.e.,	
			private stock vs. specific guarantee program).	
29	90% Required	4.3	Update Vaccine Inventory from Stock Receipt: The EHR or other clinical software	■Initial Data Load→Enter Inventory
			system updates the vaccine inventory when new stock is received at the site and	→Step 1: Enter Vaccine Inventory
			system apartes the vaccine inventory when new stock is received at the site and	
				[Vaccines administered for Juana Mariana Vazquez, Juan Marcel Marina, Juana Maria Gonzales, and Anita
			updates the correct count of each vaccine, including those for use in guarantee	[Vaccines administered for Juana Mariana Vazquez, Juan Marcel Marina, Juana Maria Gonzales, and Anita Francesca Marina.]
2022-2	90% Required		updates the correct count of each vaccine, including those for use in guarantee programs (such as Vaccines for Children) and for private stock.	
2022-2	90% Required		updates the correct count of each vaccine, including those for use in guarantee programs (such as Vaccines for Children) and for private stock. Record Vaccine Information by Scanning 2D Barcode Found on Unit-of-Use for	Francesca Marina.]
2022-2	90% Required		updates the correct count of each vaccine, including those for use in guarantee programs (such as Vaccines for Children) and for private stock. Record Vaccine Information by Scanning 2D Barcode Found on Unit-of-Use for	Francesca Marina.] ■Juana Mariana Vazquez Visit→Enter Orders and Immunizations: →Step 7: Vaccine Dosing and Administration Data Quality Checks
2022-2	90% Required		updates the correct count of each vaccine, including those for use in guarantee programs (such as Vaccines for Children) and for private stock. 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	Francesca Marina.] ■Juana Mariana Vazquez Visit→Enter Orders and Immunizations: →Step 7: Vaccine Dosing and Administration Data Quality Checks
2022-2	90% Required		updates the correct count of each vaccine, including those for use in guarantee programs (such as Vaccines for Children) and for private stock. 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 prefilled syringe) for each vaccine administered. This 2D barcode	Francesca Marina.] ■Juana Mariana Vazquez Visit→Enter Orders and Immunizations: →Step 7: Vaccine Dosing and Administration Data Quality Checks
2022-2	90% Required		updates the correct count of each vaccine, including those for use in guarantee programs (such as Vaccines for Children) and for private stock. 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 prefilled syringe) for each vaccine administered. This 2D barcode	Francesca Marina.] ■Juana Mariana Vazquez Visit→Enter Orders and Immunizations: →Step 7: Vaccine Dosing and Administration Data Quality Checks →Step 8: Record Influenza Vaccine Administration
2022-2	90% Required		updates the correct count of each vaccine, including those for use in guarantee programs (such as Vaccines for Children) and for private stock. 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 prefilled 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.	Francesca Marina.] ■Juana Mariana Vazquez Visit→Enter Orders and Immunizations: → Step 7: Vaccine Dosing and Administration Data Quality Checks → Step 8: Record Influenza Vaccine Administration ■Juan Marcel Marina Visit→Enter Orders and Immunizations:
2022-2	90% Required		updates the correct count of each vaccine, including those for use in guarantee programs (such as Vaccines for Children) and for private stock. 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 prefilled 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	Francesca Marina.] ■Juana Mariana Vazquez Visit→Enter Orders and Immunizations: → Step 7: Vaccine Dosing and Administration Data Quality Checks → Step 8: Record Influenza Vaccine Administration ■Juan Marcel Marina Visit→Enter Orders and Immunizations: → Step 3: Attempt to record HepB Vaccine administration route with data validation checking
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	Trial	0.2	Provide Access to Recommendations and Vaccine Information Statement(s): The	- Lugar Mariana Vazavoz Vicit Narovido Dationt Access to Immunization Bonort
20	ITIdI	8.2		Juana Mariana Vazquez Visit → Provide Patient Access to Immunization Report
30			immunization record displays immunization recommendations to be discussed with	→Step 1: Produce an Immunization Report Including All History
			a provider, displaying the relevant Vaccine Information Statement.	→Step 3: Provide access to Vaccine Information Statements
31	Trial	4.5	Produce Vaccine History Report: The EHR or other clinical software system	■Review Inventory→ Produce Inventory Report of Remaining Stock
			generates inventory reports of remaining stock. The reports can be sorted by	→Step 1: Produce Stock Inventory Report - Expiration Date Sort
			expiration date and source (e.g., private or guarantee program).	→Step 2: Produce Stock Inventory Report - Funding Source Sort
32	Trial	1.3		•Anita Francesca Marina Visit→Query the Registry for Anita Francesca Marina
				Step 1→Select the Set of Patients to be Seen in the Vaccination Clinic
			appointment(s) in the future (e.g., the next day, week, month, etc.) so that a	
			request can be sent to the public health immunization registry for each patient's	
			complete immunization history.	
33	Trial	9.1		■Initial Data Load→Manage Configuration
			(NDC), and Vaccine Information Statement codes (VIS).	→Step 1: Add New Vaccine Information
34	Trial	3.7		Juan Marcel Marina Visit→Juan Marcel Marina, Enter Orders and Immunizations
			clinical sotware system notifies the individual administering a vaccine that the	→Step 8: Attempt to administer DTaP vaccine and alerted that the dose is too early
			vaccine is inconsistent with expected timing intervals as suggested by the vaccine	
			forecast. The method and timing of notification can be specified to meet local	
			clinical workflow. This requirement is a "failsafe" mechanism in case the provider	
			orders a vaccine dose that is inconsistent with appropriate timing intervals.	
			S and a second distribution of the second distri	
35	Trial	3.5	Update Patient Immunization Schedule: The EHR or other clinical software system	■Initial Data Load→Manage Configuration
			displays a patient's anticipated immunization schedule routinely and updates the	→Step 2: Update Vaccine Schedule Information
			patient's schedule when immunization guidelines change.	
36	Trial	8.3	Provide Access to Printable Immunization Record: The EHR or other clinical	■Juana Mariana Visit→Juana Mariana Vazquez Provide Patient Access to Immunization Report
			software system provides a printable version of the immunization record.	→Step 2: Provide access to Printable Immunization Record for Juana Mariana Vazquez
37	Trial	6.2	Notify Patients of Immunization Status: The EHR or other clinical software provides	■Anita Francesca Marina Visit→Notify Patients of Immunization Status
			the ability to notify patients of recommendations based on their individual	→ Step 1: Notify New Vaccine Candidate Patients
			preferences for receiving notification.	
38	Trial	9.2	Configure SOAP-based CDC WSDL for Transport: The EHR or other clinical software	
			system configures connectivity using the SOAP-based CDC WSDL and demonstrates	→Step 3: Configure SOAP-based CDC WSDL
			compliance with the transport standard.	
39	Evaluation	9.3	Data Quality Checks: The EHR or other clinical sotware system integrates additional	■Initial Data Load→Juana Mariana Vazquez Initial Data Load
			data quality checks into IIP Testing and Recognition to improve data quality and	→Step 4: Attempt to enter vaccination too long ago for Juana Mariana Vazquez
			reduce rejections.	→Step 5: Attempt to enter historical vaccination for current date for Juana Mariana Vazquez
				■Initial Data Load→Anita Francesca Marina Initial Data Load
				→Step 1: Demographic Data Quality Checks for Anita Francesca Marina
				7 Step 1. Demographic Data Quality Checks for Anna Trancesca Warma
				■Juana Mariana Visit→Juana Mariana Vazquez, Enter Orders and Immunizations
				→Step 2: Vaccine Refusal Data Quality Checks
				→Step 7: Vaccine Dosing and Administration Data Quality Checks
				■Juan Marcel Marina Visit→Enter Orders and Immunizations
				→Step 3: Attempt to Record HepB Vaccine Administration Route with Data Validation Checking
				→Step 4: Records Hepatitis B Vaccine lot number with expired lot alert
				→Step 6: Records Influenza Vaccine administration with VFC eligibility checking
				Juana Mariela Gonzales Visit→Juana Mariela Gonzales, Enter Orders and Immunizations
				→Step 2: Vaccine Deferral Data Quality Checks
				■Anita Francesca Marina Visit→Anita Francesca Marina, Enter Orders and Immunizations
				→Step 1: Vaccine Administration Data Quality Checks
				, top

40	Trial	8.5	Review Patient-Provided Immunization Information: The EHR or other clinical	■Initial Data Load→Anita Francesca Marina Initial Data Load
			software system provides a mechanism for the provider to review patient-	→Step 4: Provider Review and Entry of Immunization Data for Anita Francesca Marina Provided by Patient
			generated immunization data. It also provides a mechanism for the provider to	
			update or annotate the immunization history, indicating the source of the	
			information.	
41	Trial	8.4	Provide Access to Update Immunization Information: The patient is able to add or	■Initial Data Load→Anita Francesca Marina Initial Data Load
			request an update to immunization information for review by the provider.	→Step 3: Anita Francesca Marina Electronically Submits Prior Immunization to Provider
2022-1	Discovery		Add Jurisdiction-Specific Vaccine Eligibility Code: The EHR or other clinical software	■Initial Data Load→Manage Configuration
			system demonstrates the ability to configure publicly funded dose level vaccine	→Step 4: Configure State Specific Vaccine Eligibility Code
			eligibility codes per jurisdictional requirements. This includes tracking and	
			exchanging jurisdiction-specific dose level eligibility code(s) for administered	■Juan Marcel Marina Visit→Enter Orders and Immunizations
			vaccines. This capability only applies to newly administered doses, and not historical	→Step5: Record Hepatitis B Vaccine administration
			doses.	
2022-3	Discovery		Acknowledgment Data Reporting: The EHR or other clinical software is able to	■Reporting→Acknowledgment Error Reporting ■ Reporting → Acknowledgment Error Reporting
			generate an Aggregate Error Report using the acknowledgment error	→Step 1: Produce Acknowledgements Report
			message data returned in the ACK response to a vaccine update message	
			(VXU/Z22). The report data must include the following data elements:	
			• Ilinic code and name	
			● Waccination date	
			• IS error severity	
			• IS error code and description	
			The aggregate report functionality should include grouping and sorting by	
			error code, clinic, and vaccination date. Drill-down capability by error or date	
			should also be supported as it is important to support identifying the source	
			of the data errors and to correct the issue.	

Immunization Integration Program (IIP) Testing Requirements

Test Tool Step NOTE: Capabilities which support the implementation of a Test Step are noted in blue.	Capability #
nitial Data Load:	
Juana Mariana Vazquez Initial Data Load:	
Step 1: Enter Initial Demographic Data for New Patient Juana Mariana Vazquez	19
Step 2: Enter Initial Immunization Data for Juana Mariana Vazquez: Immunizations from practice	1, 15, 16, 20
Step 3: Enter Initial Immunization Data for Juana Mariana Vazquez from Another Practice	1 , 3, 6, 16, 20
Step 4: Attempt to enter vaccination too long ago for Juana Mariana Vazquez	39
Step 5: Attempt to enter historical vaccination for current date for Juana Mariana Vazquez	39
Step 6: Enter Initial Immunization Data for Juana Mariana Vazquez Reported by Parent	1, 16, 20
Juan Marcel Marina Initial Data Load:	
Step 1: Enter Initial Demographic Data for New Patient Juan Marcel Marina	19
Step 2: Enter Clinical History for Juan Marcel Marina	5
Juana Mariela Gonzales Morales Initial Data Load:	
Step 1: Enter Initial Demographic Data for Juana Mariela Gonzales	19
Juana Maria Gonzales Morales Initial Data Load:	
Step 1: Enter Initial Demographic Data for Juana Maria Gonzales	19
Anita Francesca Marina Initial Data Load:	
Step 1: Demographic Data Quality Checks for Anita Francesca Marina	39
Step 2: Enter Initial Demographic Data for Anita Francesca Marina	19
Step 3: Anita Francesca Marina Electronically Submits Prior Immunization to Provider	41
Step 4: Provider Review and Entry of Immunization Data for Anita Francesca Marina Provided by Patient	1 , 16, 20, 40
Step 5: Enter Clinical History for Anita Francesca Marina	25
Enter Inventory:	-
Step 1: Enter Vaccine Inventory	29
Step 2: View Inventory	28
Manage Configuration:	
Step 1: Add New Vaccine Information	33
Step 2: Update Vaccine Schedule Information	35
Step 3: Configure SOAP-based CDC WSDL	38
Step 4: Configure Jurisdiction-Specific Vaccine Eligibility Code	2022-1
uana Mariana Vazquez Visit: Query the Registry for Juana Mariana Vazquez:	
Step 1: Select Patient Juana Mariana Vazquez	22
Step 2: Query Registry for vaccination history and forecast for Juana Mariana Vazquez	14, 15
Step 3: View and Compare response to request for vaccination history for Juana Mariana Vazquez	1, 15, 20, 21
Step 4: Mark first MMR Dose as Invalid	25
Step 5: View the vaccination forecast for Juana Mariana Vazquez	24
Step 6: Reconcile and import vaccinations from Evaluated History and Forecast for Juana Mariana Vazquez	1, 15, 20, 21
Step 7: View the updated vaccination forecast for Juana Mariana Vazquez	25
Juana Mariana Vazquez, Enter Orders and Immunizations:	
Step 1: Order IPV and view prior reaction	2, 6
Step 2: Vaccine Refusal Data Quality Checks	39
Step 3: IPV Parental Refusal	17
Step 4: Enter Immunization Data for MMR Given 2 Weeks Prior	16, 20, 15

*Required Capabilities are 1, 14, 21, 23, and 24

Step 5: Attempt to Order Varicella Dose	15
Step 6: Order Influenza Vaccine Step 7: Vaccine Dosing and Administration Data Quality Checks	2 39, 2022-2
• •	
Step 8: Record Influenza Vaccine Administration	18, 2022-2
Juana Mariana Vazquez Transmit Immunization Report:	4 22
Step 1: Transmit the Immunization Report to the Immunization Registry	4, 23
Step 2: Receive ACK Z23 from Immunization Registry	23
Step 3: Record an Adverse Reaction	3
Juana Mariana Vazquez Display Immunization Report:	10.13
Step 1: Produce an immunization report for Juana Mariana Vazquez including all history	10, 12
Juana Mariana Vazquez Provide Patient Access to Immunization Report:	25.22
Step 1: Produce an Immunization Report Including All History	26, 30
Step 2: Provide access to Printable Immunization Record for Juana Mariana Vazquez	26, 36
Step 3: Provide access to Vaccine Information Statements	30
luan Marcel Marina Visit:	
Query the Registry for Juan Marcel Marina:	
Step 1: Select Patient Juan Marcel Marina	22
Step 2: Query Registry for vaccination history and forecast for Juan Marcel Marina	14
Step 3: View and import response to request for vaccination history for Juan Marcel Marina	1, 15, 20, 21
Step 4: View the vaccination forecast for Juan Marcel Marina	5, 25
Juan Marcel Marina, Enter Orders and Immunizations:	
Step 1: Orders administration of Hepatitis B vaccine	2
Step 2: Orders administration of DTaP vaccine and alerted that the dose is too early	2, 15
Step 3: Attempt to record HepB Vaccine administration route with data validation checking	18, 39, 2022-2
Step 4: Records Hepatitis B Vaccine lot number with expired lot alert	7, 39, 2022-2
Step 5: Record Hepatitis B Vaccine administration	18, 2022-2, 2022-1
Step 6: Records Influenza Vaccine administration with VFC eligibility checking	8, 2022-2, 39
Step 7: Record Influenza Vaccine administration for Juan Marcel Marina	18, 2022-2
Step 8: Attempt to administer DTaP vaccine and alerted that the dose is too early	34
Juan Marcel Marina Transmit Immunization Report:	
Step 1: Transmit the Immunization Report for Juan Marcel Marina	4, 23
Step 2: Receive ACK Z23 from Immunization Registry	23
Step 3: Transmit Delete for Vaccine Recorded in Error	4, 23
Step 4: Receive ACK Z23 from Immunization Registry	23
luana Mariela Gonzales Visit:	
Query the Registry for Juana Mariela Gonzales:	
Step 1: Select Patient Juana Mariela Gonzales	22
Step 2: Query Registry for vaccination history and forecast for Juana Mariela Gonzales	14
Step 3: View and import response to request for vaccination history for Juana Mariela Gonzales	20
Step 4: View the vaccination forecast for Juana Mariela Gonzales	25
Juana Mariela Gonzales, Enter Orders and Immunizations:	
Step 1: Enter Initial Clinical Information for Juana Mariela	5
Step 2: Vaccine Deferral Data Quality Checks	39
Step 3: Enters a deferral for the vaccines due	17
Juana Mariela Gonzales Transmit Immunization Report:	17
Step 1: Transmit the Immunization Report for Juana Mariela Gonzales	4, 23
Step 2: Receive ACK Z23 from Immunization Registry	23
Step 2. Neceive ACN 223 Hoth Infindinzation Registry	

Juana Maria Gonzales Visit:	
Query the Registry for Juana Maria Gonzales:	
Step 1: Select Patient Juana Maria Gonzales	22
Step 2: Query Registry for vaccination history and forecast too many matches found response	14
Step 3: Error Handling - Too many matches found	20
Step 4: Query Registry for vaccination history and forecast no persons found response	14
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