



## REAL WORLD TESTING PLAN RESULTS

### BACKGROUND & INSTRUCTIONS

Under the ONC Health IT Certification Program (**Program**), Health IT Developers are required to conduct Real World Testing of their Certified Health IT (45 CFR 170.556 and 170.523(i)). The Office of the National Coordinator for Health Information Technology (ONC) issues Real World Testing resources to clarify Health IT Developers' responsibilities for conducting Real World Testing, to identify topics and specific elements of Real World Testing that ONC considers a priority, and to assist Health IT Developers to develop their Real World Testing plans.

Health IT Developers have maximum flexibility to develop innovative plans and measures for Real World Testing. As developers are planning for how they will execute Real World Testing, they should consider the overall complexity of the workflows and use cases within the care settings in which they market their Certified Health IT to determine which approaches they will take. This Real World Testing plan template was created to assist Health IT Developers in organizing the required information that must be submitted for each element in their Real World Testing plan. Health IT Developers must submit one plan for each year of Real World Testing (see resources listed below for specific timelines and due dates). ONC does not encourage updating plans outside the submission timeline and will not post updates on the Certified Health IT Product List (CHPL). If adjustments to approaches are made throughout Real World Testing, the Health IT Developer should reflect these adjustments in their Real World Testing results report. ONC would expect that the Real World Testing results report will include a description of these types of changes, the reasons for them, and how intended outcomes were more efficiently met as a result. This resource should be read and understood in conjunction with the following companion resources, which describe in detail many of the Program requirements referenced in this resource.

- [Real World Testing—What It Means for Health IT Developers – Fact Sheet](#)
- Real World Testing Resource Guide – Coming Soon
- [Real World Testing Certification Companion Guide](#)

Health IT Developers should also review the following regulatory materials, which establish the core requirements and responsibilities for Real World Testing under the Program.

- 21st Century Cures Act: Interoperability, Information Blocking, and the ONC Health IT Certification Program final rule, [85 FR 25642](#) (May 1, 2020) (**Century Cures final rule**)
  - ↳ [Section VII.B.5](#) — “Real World Testing”



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## GENERAL INFORMATION

Plan Report ID Number: [For ONC-Authorized Certification Body use only]

Developer Name: Infomedika, Inc.

Product Name(s): Evolution EHR

Version Number(s): 3

Certified Health IT Product List (CHPL) ID(s): 15.04.04.1684.Evol.08.00.1.181221

Developer Real World Testing Page URL: <https://www.infomedika.com/certifications>

## JUSTIFICATION FOR REAL WORLD TESTING APPROACH

Consistent with the ONC's recommendation that "Real World Testing verify that deployed Certified Health IT continues to **perform as intended by conducting and measuring observations of interoperability and data exchange**", this test plan focuses on capturing and documenting the number of instances that certified capability is successfully utilized in the real world. In instances where no evidence exists due to zero adoption of a certified capability or the inability to capture evidence of successful use for other reasons, we will demonstrate the required certified capability in a semi-controlled setting as close to a "real world" implementation as possible.

It is important to note that Real World Testing is only one component of the Health IT Certification program used to demonstrate compliance with the program requirements. Real World Testing should augment and support testing that was conducted prior to certification being granted. It is not intended to duplicate the methods or results previously demonstrated. Instead, this test plan was developed to demonstrate that the certified capabilities have been successfully deployed for providers to use at their discretion in live settings.

We are using a 3-fold approach to demonstrate successful real-world implementations.

- Adoption Rate
- Summative Testing
- Interactive Testing

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Adoption rate will be used to determine if/when certified capability is being used in the real world and to help identify differences in care settings. Evidence of high rates of implementation and usage indicate (but don't by themselves prove) a certified capability's usefulness and practical value. Evidence of low rates of implementation and usage might indicate a potential problem, of which there could be several different causes. Note, it is not the goal of this exercise to identify the individual causes of why a given certified capability may have a high or low adoption rate, but rather to identify the users and care settings for which a given test is relevant.

Summative assessments will be used to measure which certified actions were performed at the conclusion of a given time period. These will be conducted by generating reports and examining audit logs from within the certified health IT module to help demonstrate the frequency of actions within the given time frame, and where possible, whether those actions were successful or unsuccessful. High success rates should be an indicator of a successful implementation of a given certified capability in a real-world setting.

Interactive testing will be used to demonstrate conformance to requirements where the adoption rate of a given certified capability is zero and to demonstrate ongoing compliance with updated standards and code sets (SVAP). Interactive tests will require a live test as opposed to examining historical usage statistics. The goal is to allow a user to demonstrate the certified Health IT module being used in a way consistent with their own practice or care setting.

## STANDARDS UPDATES (INCLUDING STANDARDS VERSION ADVANCEMENT PROCESS-SVAP AND USCDI)

Infomedika has not updated Evolution EHR to any new standards as part of SVAP or the Cures Update criteria as of this date nor plan to prior to the execution of the 2023 Real World Test.

## CARE SETTINGS

Evolution EHR is a certified technology that addresses the needs of the Inpatient Acute Care Setting for small and medium size hospitals and the Ambulatory ER Clinics Setting available for the Puerto Rico, Latin America and the USA market.

Care Setting	Justification
Inpatient acute care hospitals	Inpatient acute care hospitals comprise roughly half our user base.
Ambulatory centers with ER services	Ambulatory centers with ER services comprise roughly half our user base.

## MEASURES USED IN OVERALL APPROACH

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For each measurement/metric, describe the elements below:

- ✓ Description of the measurement/metric
- ✓ Associated certification criteria
- ✓ Care setting(s) that are addressed
- ✓ Justification for selected measurement/metric
- ✓ Expected Outcomes

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## ADOPTION RATES

The following metrics are applicable to all criteria and all care settings. These metrics will not be used directly to demonstrate interoperability or conformance to certification criteria. Instead, they will primarily be used to help determine the participants that will be in scope for this evaluation. They can also aid with the justification for other metrics by providing additional context (i.e., extremely low adoption rates for certain certified capabilities will necessitate a different approach to testing).

Metric	Description	Total
Number of licensed installs/users of EHR <ul style="list-style-type: none"><li>• The definition of a “license” is dependent upon the model used (e.g., total number of systems, total number of seats per license, etc.)</li></ul>	Identify the total number of licensed installs/users of the certified Health IT module, regardless of care setting, participation in incentive programs, or use of certified capabilities.	Installs: 42 Users: 7635
Number of active installs/users of EHR	Identify the total number of <b>active</b> installs and/or users of the certified Health IT module, regardless of care setting, participation in incentive programs, or use of certified capabilities.	Installs: 42 Users: 7635

The following metrics are applicable to all criteria that are licensed separately from the base license and all care settings.



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Metric	Description
Certified capabilities that are licensed separately	Identify which certified capabilities are licensed separately from the base EHR license. Examples may include eRx, CQMs, public health, etc.  The following product will be used during the testing for the c.1-3: <ul style="list-style-type: none"><li>• eCQMSolution from DHIT</li></ul>
Number of installs/users who licensed a certified capability	Where applicable, identify the number of licensed installs/users of a given certified capability.
Number of installs/users that have used the certified capability in the preceding 365 days	Where applicable, identify the number of <b>active</b> installs/users of a given certified capability.

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## SUMMATIVE ASSESSMENT METRICS

The following metrics will be measured by viewing audit logs and reporting systems available to track the behavior of the certified Health IT module during a given time frame. All metrics are designed to reflect the core elements of the criteria, demonstrate interoperability, and demonstrate the success rate of the certified capability being used. In most cases we elected to record these metrics over a 90-day period to reflect the reporting periods typically required for compliance with the federal incentive programs.

The continued measurable use of certified capabilities will provide implicit evidence of successful implementation of the required certified capability. This is especially meaningful in cases where interoperability with outside systems is demonstrated. In cases where it is not possible to determine “success” via an explicit confirmation by a receiving system, success will be defined as a transmission was made where no error was received from the destination system or its intermediaries. Additionally, we will review internal customer and vendor issue tracking systems for reports of failures or unsatisfactory performance in the field.



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Criterion	Metric	Care Setting	
		Inpatient acute care hospitals	Ambulatory centers with ER services
170.315(b)(1) Transitions of care	Over a 90-day period: From: October 1, 2023 to December 29, 2023	<b>Inpatient acute care hospitals</b>	<b>Ambulatory centers with ER services</b>
	Number of CCDAs created.	475	0
	Number of CCDAs sent via edge protocols.	13	0
	Number of CCDAs received via edge protocols.	1	0
170.315(b)(2) Clinical information reconciliation and incorporation	Over a 90-day period: From: October 1, 2023 to December 29, 2023	<b>Inpatient acute care hospitals</b>	<b>Ambulatory centers with ER services</b>
	Number of times a user reconciled medication list data from a received CCDA.	<b>0</b>	<b>0</b>
	Number of times a user reconciled allergies and intolerance list data from a received CCDA.	<b>0</b>	<b>0</b>
	Number of times a user reconciled problem list data from a received CCDA.	<b>63</b>	<b>0</b>



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170.315(b)(6) Data export	Over a 90-day period: From: October 1, 2023 to December 29, 2023	<b>Inpatient acute care hospitals</b>	<b>Ambulatory centers with ER services</b>
	Number of times a data export was performed for a patient	<b>157</b>	<b>1430</b>
	Number of times a data export was performed for multiple patients in a single transaction	<b>303</b>	<b>1819</b>
	Number of times a data export was performed for all patients in a single transaction	<b>0</b>	<b>0</b>
170.315(c)(1-3) Clinical quality measures (QCMs)	Over a 90-day period: From: October 1, 2023 to December 29, 2023	<b>Inpatient acute care hospitals</b>	<b>Ambulatory centers with ER services</b>
	Number of QRDA Category 3 aggregate report(s) created over the period.	0	0
	Number of measures recorded during the period.	5	0
	Number of QRDA Category 1 files exported.	6 (one for each measure(5) and one for all.	0
	Number of QRDA Category 1 files imported (if applicable)	0	0



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170.315(f)(1) Transmission to immunization registries	Over 3 separate unique 10-day periods within a 90-day window: Number (or percentage) of immunization records submitted to the immunization record.	<b>Period</b>	<b>Result</b>
		From: October 1, 2023 To: October 10, 2023	
		From: November 1, 2023 To: November 10, 2023	
		From: December 1, 2023 To: December 10, 2023	
170.315(f)(3) Transmission to public health agencies — reportable laboratory tests and value/results	Over 3 separate unique 10-day periods within a 90-day window: Total number of reportable laboratory results created and submitted.	<b>Period</b>	<b>Result</b>
		From: October 1, 2023 To: October 10, 2023	
		From: November 1, 2023 To: November 10, 2023	
		From: December 1, 2023 To: December 10, 2023	
170.315(f)(5) Transmission to public health agencies — electronic case reporting	Over 3 separate unique 10-day periods within a 90-day window: 1) Total number of electronic case reports created and submitted	<b>Inpatient acute care hospitals</b>	<b>Ambulatory centers with ER services</b>
170.315(h)(1) Direct Project	Over a 90-day period: From: October 1, 2023 to December 29, 2023	<b>Inpatient acute care hospitals</b>	<b>Ambulatory centers with ER services</b>
	Number of Direct Messages sent.	<b>163</b>	<b>0</b>

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	Number of Delivery Notifications received.	92	0
	Number of Direct Messages received.	2	0
	Number of Delivery Notifications sent.	92	0

## INTERACTIVE TESTING

The following test plans will be executed to demonstrate Real World certified capabilities for criteria where metrics are not available. Infomedika market is primarily in Puerto Rico where alternative methods are currently used to send Public Health and export data. The criteria to be tested using interactive testing are:

- 170.315(f)(1) Transmission to immunization registries
- 170.315(f)(3) Transmission to public health agencies —reportable laboratory tests and value/results

### High Level Interactive Test Plan:

- **Care Settings:** Infomedika is currently used for Inpatient acute care hospitals and general practice ambulatory centers with ER Services.
- **Test Environment:** All interactive testing will be performed in a Real-World provider's live environment but using test patients with synthetic data.
  - The plan for interactive testing the criteria described below in the real world will be to engage with one Clinician in the inpatient acute care environment and one in the ambulatory center with ER services at their sites.
- **Test Data:** Interactive testing will be performed using test patient data in the live environment in order to be as representative as possible of real-world deployments.
  - Infomedika will work with clinicians to setup patients with representative data for their care setting.



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Criterion	Interactive Test Plan	Justification and Expected Outcome
170.315(f)(1) Transmission to immunization registry	<p>Infomedika will setup 3 test patients in both the hospital and ambulatory settings (both children and adults), each to test the transmission of immunizations to a registry.</p> <p>Infomedika will create a set of representative test patient data that includes representative data for children of the of the ages who would normally receive vaccines and an adult who will receive an influenza vaccination.</p> <p>Infomedika will send a request for immunization history for each of the test patients and use the <a href="#">HL7 context free NIST H7 Immunization 2.5.1 IG Release 1.5 Tool</a> to verify message conformance.</p> <p>Infomedika can receive a response from the <a href="#">HL7 context free NIST H7 Immunization 2.5.1 IG Release 1.5 Tool</a> with history and forecast.</p> <p>Infomedika will send immunization records to the <a href="#">HL7 context free NIST H7 Immunization 2.5.1 IG Release 1.5 Tool</a> to verify message conformance.</p>	<p><b>Justification:</b></p> <ul style="list-style-type: none"><li>• Infomedika developed this criterion to support parents bringing their baby into the ambulatory clinics for a vaccine and instances where a patient might receive a very specific vaccine in an inpatient setting. The Department of Health in Puerto Rico is not ready to receive messages from the EHR at this time. Department of Health is requesting providers to enter the data manual via the registry portal so there is no adoption of this certified capability to date.</li></ul> <p><b>Expected outcomes:</b></p> <ul style="list-style-type: none"><li>○ Immunization history can be requested for both children and adult patients and conform the HL7 Immunization 2.5.2 IG Release 1.5 Z44message.</li><li>○ Visual inspection that the Infomedika Evolution EHR can receive the History and Forecast from the context-free NIST Tool (the content will not relate to the patient data that was requested, it will be the default message from the NIST tool).</li><li>○ Immunization messages can be transmitted for both children and adult patients and conform the HL7 Immunization 2.5.2 IG Release 1.5 Z22 VXU^V04 message.</li></ul>



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Ambulatory

Immunization history z44

## a) Child Patient 1

<b>Validation Type</b>		Context-Free
<b>Testing Tool</b>	Name	NIST Validation Tool
	Validation Version	1.2.2
<b>Profile</b>	Name	Request Evaluated Immunization History and Forecast Query
	Organization	NIST
	Type	Constrainable
	Profile Version	1.9.11
	Profile Date	20200902
Standard	2.5.1	
<b>Message</b>		
MSH ^~& NISTEHRAPP NISTEHRFAC NISTIISAPP NISTIISFAC 20141031145233-0500  OBP^O11^OBP_Q11 NIST-IZ-QR-1.1_Query_Q11_Z44_20230101 OPD Z44^Request Evaluated History and Forecast^CDOPHINVS  IZ-1.1-2015 T990039017***NIST-MPL-1^MR RICHARDSON^RUSELL^CLINT^****  20150101		
<b>Failures Interpretation</b>		<a href="#">View</a>
<b>Summary</b>		
<input type="checkbox"/> 0 Errors		
<input type="checkbox"/> 16 Alerts		
<input type="checkbox"/> 4 Warnings		
<b>Validation Errors</b>		Count : 0
<b>Validation Alerts</b>		Count : 16
<b>Validation Warnings</b>		Count : 4



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## b) Child Patient 2

<b>Validation Type</b>		Context-Free
<b>Testing Tool</b>	Name	NIST Validation Tool
	Validation Version	1.2.2
<b>Profile</b>	Name	Request Evaluated Immunization History and Forecast Query
	Organization	NIST
	Type	Constraintable
	Profile Version	1.9.11
	Profile Date	20200902
Standard	2.5.1	
<b>Message</b>		
MSH ^~\A NIST^HRAPP^NIST^HRFACIN^NIST^BAPP^NIST^BIFAC 20141031145233-0500 CBP^O11^QBP_O11^NIST-IZ-OR-1_1_Query_O11_Z44_202020108535156 P2.5.1  ERVAL  Z44^CDCPh... QPJZ44^Request Evaluated History and Forecast^CDGPHNV53Z.1.1-2015 T990039025^NIST-MPI-1^MRJFAIRCHILD^CAMERON^A^LJFAIRLADY^M20090214M105 LAUREL RUN RD^H		
<b>Failures Interpretation</b> <a href="#">View</a>		
<b>Summary</b>		
<input type="checkbox"/> 0 Errors		
<input type="checkbox"/> 15 Alerts		
<input type="checkbox"/> 4 Warnings		
<b>Validation Errors</b>		Count : 0
<b>Validation Alerts</b>		Count : 15
<b>Validation Warnings</b>		Count : 4



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		<p>c) Adult Patient (Influenza Administration)</p> <table border="1"><tr><td colspan="2"><b>Validation Type</b></td><td>Context-Free</td></tr><tr><td rowspan="2"><b>Testing Tool</b></td><td>Name</td><td>NIST Validation Tool</td></tr><tr><td>Validation Version</td><td>1.2.2</td></tr><tr><td rowspan="5"><b>Profile</b></td><td>Name</td><td>Request Evaluated Immunization History and Forecast Query</td></tr><tr><td>Organization</td><td>NIST</td></tr><tr><td>Type</td><td>Constrainable</td></tr><tr><td>Profile Version</td><td>1.9.11</td></tr><tr><td>Profile Date</td><td>20200902</td></tr><tr><td>Standard</td><td>2.5.1</td></tr><tr><td colspan="3"><b>Message</b></td></tr><tr><td colspan="3">MSH ^~&amp;NISTEHRAPP NISTEHRFAC NISTISAPP NISTISFAC 20141031145233-0500 OBP^Q11^OBP_Q11^NIST-IZ-OR-1_1_Query_Q11_Z44_2020020109562504 P2.5.1   Z44^CDCPH^... QP0 Z44^Request Evaluated History and Forecast^CDCPHINVS Z-1.1-2015 T990039026^NIST-MPI-1^MR STANLEY^CLEMENT^S^L BELL^*****M 19500214M 1642 BEAR RUN^BOZEMAN^...  </td></tr><tr><td colspan="2"><b>Failures interpretation</b></td><td><a href="#">View</a></td></tr><tr><td colspan="3"><b>Summary</b></td></tr><tr><td colspan="3"><input type="checkbox"/> 0 Errors</td></tr><tr><td colspan="3"><input type="checkbox"/> 16 Alerts</td></tr><tr><td colspan="3"><input type="checkbox"/> 3 Warnings</td></tr><tr><td colspan="2"><b>Validation Errors</b></td><td>Count : 0</td></tr><tr><td colspan="2"><b>Validation Alerts</b></td><td>Count : 16</td></tr><tr><td colspan="2"><b>Validation Warnings</b></td><td>Count : 3</td></tr></table>	<b>Validation Type</b>		Context-Free	<b>Testing Tool</b>	Name	NIST Validation Tool	Validation Version	1.2.2	<b>Profile</b>	Name	Request Evaluated Immunization History and Forecast Query	Organization	NIST	Type	Constrainable	Profile Version	1.9.11	Profile Date	20200902	Standard	2.5.1	<b>Message</b>			MSH ^~&NISTEHRAPP NISTEHRFAC NISTISAPP NISTISFAC 20141031145233-0500 OBP^Q11^OBP_Q11^NIST-IZ-OR-1_1_Query_Q11_Z44_2020020109562504 P2.5.1   Z44^CDCPH^... QP0 Z44^Request Evaluated History and Forecast^CDCPHINVS Z-1.1-2015 T990039026^NIST-MPI-1^MR STANLEY^CLEMENT^S^L BELL^*****M 19500214M 1642 BEAR RUN^BOZEMAN^... 			<b>Failures interpretation</b>		<a href="#">View</a>	<b>Summary</b>			<input type="checkbox"/> 0 Errors			<input type="checkbox"/> 16 Alerts			<input type="checkbox"/> 3 Warnings			<b>Validation Errors</b>		Count : 0	<b>Validation Alerts</b>		Count : 16	<b>Validation Warnings</b>		Count : 3
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Inpatient

Immunization history z44

## a) Child Patient 1

<b>Validation Type</b>		Context-Free
<b>Testing Tool</b>	Name	NIST Validation Tool
	Validation Version	1.2.2
<b>Profile</b>	Name	Request Evaluated Immunization History and Forecast Query
	Organization	NIST
	Type	Constrainable
	Profile Version	1.9.11
	Profile Date	20200902
Standard	2.5.1	
<b>Message</b>		
MSH ^~&N NISTEHRAPP NISTEHRFAC NISTIBAPP NISTIBFAC 20141031145233-0500 QBP^O11^QBP_O11 NIST-I2-QR-1_1_Query_O11_z44_2020020110164732P 2.5.1   ER  AL   Z44^CDCHPH^OPD Z44^Request Evaluated History and Forecast^CDCHPHV\$ Z-1.1-2015 0000000184^NIST-MPI-1^MR LOPEZ^JULIO^L 20180426 M 4478 DESTINEY FREEWAY CLUB^WEST WENDOVE^L		
<b>Failures interpretation</b>		<a href="#">View</a>
<b>Summary</b>		
<input type="checkbox"/> 0 Errors		
<input type="checkbox"/> 16 Alerts		
<input type="checkbox"/> 6 Warnings		
<b>Validation Errors</b>		Count : 0
<b>Validation Alerts</b>		Count : 16
<b>Validation Warnings</b>		Count : 6

## b) Child Patient 2

<b>Validation Type</b>		Context-Free
<b>Testing Tool</b>	Name	NIST Validation Tool
	Validation Version	1.2.2
<b>Profile</b>	Name	Request Evaluated Immunization History and Forecast Query
	Organization	NIST
	Type	Constrainable
	Profile Version	1.9.11
	Profile Date	20200902
Standard	2.5.1	
<b>Message</b>		
MSH ^~&N NISTEHRAPP NISTEHRFAC NISTIBAPP NISTIBFAC 20141031145233-0500 QBP^O11^QBP_O11 NIST-I2-QR-1_1_Query_O11_z44_202002011020568 P 2.5.1   ER  AL   Z44^CDCHPH^OPD Z44^Request Evaluated History and Forecast^CDCHPHV\$ Z-1.1-2015 0000000389^NIST-MPI-1^MR PATTERSON^KRIK^L 20051114 M ADDRESS 5^SAN_JUAN^PR^00925^PR^P		
<b>Failures interpretation</b>		<a href="#">View</a>
<b>Summary</b>		
<input type="checkbox"/> 0 Errors		
<input type="checkbox"/> 15 Alerts		
<input type="checkbox"/> 3 Warnings		
<b>Validation Errors</b>		Count : 0
<b>Validation Alerts</b>		Count : 15
<b>Validation Warnings</b>		Count : 3



		<p><b>C) Adult Patient (Influenza Administration)</b></p> <p><b>Message Validation Report</b> <span style="float: right;">02/01/2023, 10:22:21.298-06:00</span></p> <p><b>Validation Type</b> <span style="float: right;">Context-Free</span></p> <p><b>Testing Tool</b></p> <table border="1"> <tr><td>Name</td><td>NIST Validation Tool</td></tr> <tr><td>Validation Version</td><td>1.2.2</td></tr> </table> <p><b>Profile</b></p> <table border="1"> <tr><td>Name</td><td>Request Evaluated Immunization History and Forecast Query</td></tr> <tr><td>Organization</td><td>NIST</td></tr> <tr><td>Type</td><td>Constrainable</td></tr> <tr><td>Profile Version</td><td>1.9.11</td></tr> <tr><td>Profile Date</td><td>20200902</td></tr> <tr><td>Standard</td><td>2.5.1</td></tr> </table> <p><b>Message</b></p> <pre>MSH ^~\A NISTHRAPP NISTHRFAC NISTBAPP NISTBAC 20141031145233-0500 OBP^O11^OBP_O11 NIST-QZ-OR-1_L_Query_Q11_Z44_2023020111215347P02.5   ERIAL   Z44^CDPH^~ GPD Z44^Request Evaluated History and Forecast^CDPHINV5 Z-1.1-2015 0000000157***NIST-MPI-1^MR WALKER^LAUREN****L 19700701 F DIR 1^BEAVERTON^OR^97006^USA^P^PRN^P </pre> <p><b>Failures Interpretation</b> <span style="float: right;"><a href="#">View</a></span></p> <p><b>Summary</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> 0 Errors</li> <li><input type="checkbox"/> 16 Alerts</li> <li><input type="checkbox"/> 0 Warnings</li> </ul> <p><b>Validation Errors</b> <span style="float: right;">Count : 0</span></p> <p><b>Validation Alerts</b> <span style="float: right;">Count : 16</span></p> <p><b>Validation Warnings</b> <span style="float: right;">Count : 0</span></p>	Name	NIST Validation Tool	Validation Version	1.2.2	Name	Request Evaluated Immunization History and Forecast Query	Organization	NIST	Type	Constrainable	Profile Version	1.9.11	Profile Date	20200902	Standard	2.5.1
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Name	Request Evaluated Immunization History and Forecast Query																	
Organization	NIST																	
Type	Constrainable																	
Profile Version	1.9.11																	
Profile Date	20200902																	
Standard	2.5.1																	
	<p>Receive the History and Forecast from the context-free NIST Tool (the content will not relate to the patient data that was requested, it will be the default message from the NIST tool).</p>	<p><b>Evolution</b> Powered by Infomedika</p> <p>Request: NIST-IZ-QR-1.1_Query_Q11_Z44_2023020111215347   Requested Date: 2/1/2023</p> <p>Message was processed.</p> <p>History: Record No. Vaccine   Forecast: Vaccine</p> <p>Immunization schedule Used</p>																



Ambulatory

Immunization messages can be transmitted for both children and adult patients and conform the HL7 Immunization 2.5.2 IG Release 1.5 Z22 VXU^V04 message.

## A) Child Patient 1

Validation Type		Context-Free
<b>Testing Tool</b>	Name: NIST Validation Tool Validation Version: 1.2.2	
<b>Profile</b>	Name: Unsolicited Immunization Update Organization: NIST Type: Constraining Profile Version: 1.9.11 Profile Date: 20200902 Standard: 2.5.1	
<b>Message</b>		
MSH ^~& EVOLUTION^2.16.840.1.113883.3.72.5.40.1^ISO EVOLUTION^2.16.840.1.113883.3.72.5.40.2^ISO PRIR^2.16.840.1.113883.3.72.5.40.3^ISO PRIR^2.16.840.1.113883.3.72.5.40.4^ISO 2023 - PID 1 T990039017^M^MPI&1.2.826.0.1.3680043.8.369.1.2&ISO^MR-569585858^M^AA^SS RICARDSON^RUSELL^CLINT^L- RICARDSON^MARIA^ELIZABETH^M^201504150000 M 1002		
<b>Failures interpretation</b> <span style="float: right;">View</span>		
<b>Summary</b>		
<input type="checkbox"/> 0 Errors		
<input type="checkbox"/> 64 Alerts		
<input type="checkbox"/> 10 Warnings		
<b>Validation Errors</b>		Count : 0
<b>Validation Alerts</b>		Count : 64
<b>Validation Warnings</b>		Count : 10

## B) Child Patient 2

Message Validation Report		02 01 2023, 13:13:24.005-05:00
Validation Type		Context-Free
<b>Testing Tool</b>	Name: NIST Validation Tool Validation Version: 1.2.2	
<b>Profile</b>	Name: Unsolicited Immunization Update Organization: NIST Type: Constraining Profile Version: 1.9.11 Profile Date: 20200902 Standard: 2.5.1	
<b>Message</b>		
MSH ^~& EVOLUTION^2.16.840.1.113883.3.72.5.40.1^ISO EVOLUTION^2.16.840.1.113883.3.72.5.40.2^ISO PRIR^2.16.840.1.113883.3.72.5.40.3^ISO PRIR^2.16.840.1.113883.3.72.5.40.4^ISO 2023 - PID 1 000000224^M^MPI&1.2.826.0.1.3680043.8.369.1.2&ISO^MR-852858585^M^AA^SS BANKS^TYLER^OWEN^L- 201406020000 M 2106-3^White^CDOREC 924 GYCAMORE LANE^BOZE		
<b>Failures interpretation</b> <span style="float: right;">View</span>		
<b>Summary</b>		
<input type="checkbox"/> 0 Errors		
<input type="checkbox"/> 56 Alerts		
<input type="checkbox"/> 3 Warnings		
<b>Validation Errors</b>		Count : 0
<b>Validation Alerts</b>		Count : 56
<b>Validation Warnings</b>		Count : 3



# Health IT Certification Program

The Office of the National Coordinator for Health Information Technology

		<b>C) Adult Patient</b>																																																	
		<table border="1"><tr><td colspan="2"><b>Validation Type</b></td><td>Context-Free</td></tr><tr><td rowspan="2"><b>Testing Tool</b></td><td>Name</td><td>NIST Validation Tool</td></tr><tr><td>Validation Version</td><td>1.2.2</td></tr><tr><td rowspan="5"><b>Profile</b></td><td>Name</td><td>Unsolicited Immunization Update</td></tr><tr><td>Organization</td><td>NIST</td></tr><tr><td>Type</td><td>Constrainable</td></tr><tr><td>Profile Version</td><td>1.9.11</td></tr><tr><td>Profile Date</td><td>20200902</td></tr><tr><td>Standard</td><td>2.5.1</td></tr><tr><td colspan="3"><b>Message</b></td></tr><tr><td colspan="3">MIME:~&lt;[EVOLUTION]:16.840.1.113883.3.72.5.40:1^ISO EVOLUTION:16.840.1.113883.3.72.5.40:2^ISO PRIR:16.840.1.113883.3.72.5.40:3^ISO PRIR:16.840.1.113883.3.72.5.40:4^ISO 2023-...&gt; PID: T T99003922~MPL&amp;1.2.826.0.1.3680043.8.369.1.28 ISO-MR-741414141~MAA'SS WONG'ELISE~L-  198306150000 F 2028-9^A&amp;am~CDCREG 9200 WELLINGTON TRAIL~BOZEMAN...&gt;</td></tr><tr><td colspan="2"><b>Failures Interpretation</b></td><td><a href="#">View</a></td></tr><tr><td colspan="3"><b>Summary</b></td></tr><tr><td colspan="3"><input type="checkbox"/> 0 Errors</td></tr><tr><td colspan="3"><input type="checkbox"/> 38 Alerts</td></tr><tr><td colspan="3"><input type="checkbox"/> 12 Warnings</td></tr><tr><td colspan="2"><b>Validation Errors</b></td><td>Count : 0</td></tr><tr><td colspan="2"><b>Validation Alerts</b></td><td>Count : 38</td></tr><tr><td colspan="2"><b>Validation Warnings</b></td><td>Count : 12</td></tr></table>	<b>Validation Type</b>		Context-Free	<b>Testing Tool</b>	Name	NIST Validation Tool	Validation Version	1.2.2	<b>Profile</b>	Name	Unsolicited Immunization Update	Organization	NIST	Type	Constrainable	Profile Version	1.9.11	Profile Date	20200902	Standard	2.5.1	<b>Message</b>			MIME:~<[EVOLUTION]:16.840.1.113883.3.72.5.40:1^ISO EVOLUTION:16.840.1.113883.3.72.5.40:2^ISO PRIR:16.840.1.113883.3.72.5.40:3^ISO PRIR:16.840.1.113883.3.72.5.40:4^ISO 2023-...> PID: T T99003922~MPL&1.2.826.0.1.3680043.8.369.1.28 ISO-MR-741414141~MAA'SS WONG'ELISE~L-  198306150000 F 2028-9^A&am~CDCREG 9200 WELLINGTON TRAIL~BOZEMAN...>			<b>Failures Interpretation</b>		<a href="#">View</a>	<b>Summary</b>			<input type="checkbox"/> 0 Errors			<input type="checkbox"/> 38 Alerts			<input type="checkbox"/> 12 Warnings			<b>Validation Errors</b>		Count : 0	<b>Validation Alerts</b>		Count : 38	<b>Validation Warnings</b>
<b>Validation Type</b>		Context-Free																																																	
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<input type="checkbox"/> 38 Alerts																																																			
<input type="checkbox"/> 12 Warnings																																																			
<b>Validation Errors</b>		Count : 0																																																	
<b>Validation Alerts</b>		Count : 38																																																	
<b>Validation Warnings</b>		Count : 12																																																	



Inpatient

## A) Child Patient 1

<b>Validation Type</b>		Context-Free
<b>Testing Tool</b>	Name	NIST Validation Tool
	Validation Version	1.2.2
<b>Profile</b>	Name	Unsolicited Immunization Update
	Organization	NIST
	Type	Constrainable
	Profile Version	1.9.11
	Profile Date	20200902
Standard	2.5.1	
<b>Message</b>		
MSH ^~& EVOLUTION^2.16.840.1.113883.3.72.5.40.1^ISO EVOLUTION^2.16.840.1.113883.3.72.5.40.2^ISO PRIIR^2.16.840.1.113883.3.72.5.40.3^ISO PRIIR^2.16.840.1.113883.3.72.5.40.4^ISO 2023- PID 1  T990039020^M^PI&1.2.826.0.1.3680043.8.369.1.2&ISO^MR-555205020^MAA^SS  BROADWAY^ASHLEY^JENNIFER^L- BROADWAY^ELLEN^M^M201506160000 F  2054-5^Black of / x		
<b>Failures interpretation</b> <span style="float: right;">View</span>		
<b>Summary</b>		
<input type="checkbox"/> 0 Errors		
<input type="checkbox"/> 31 Alerts		
<input type="checkbox"/> 2 Warnings		
<b>Validation Errors</b>		Count : 0
<b>Validation Alerts</b>		Count : 31
<b>Validation Warnings</b>		Count : 2

## B) Child Patient 2

<b>Validation Type</b>		Context-Free
<b>Testing Tool</b>	Name	NIST Validation Tool
	Validation Version	1.2.2
<b>Profile</b>	Name	Unsolicited Immunization Update
	Organization	NIST
	Type	Constrainable
	Profile Version	1.9.11
	Profile Date	20200902
Standard	2.5.1	
<b>Message</b>		
MSH ^~& EVOLUTION^2.16.840.1.113883.3.72.5.40.1^ISO EVOLUTION^2.16.840.1.113883.3.72.5.40.2^ISO PRIIR^2.16.840.1.113883.3.72.5.40.3^ISO PRIIR^2.16.840.1.113883.3.72.5.40.4^ISO 2023- PID 1  T990039018^M^PI&1.2.826.0.1.3680043.8.369.1.2&ISO^MR-586965320^MAA^SS  BENTON^KATHERINE^MACKENZIE^L- BENTON^KARI^MICHELLE^M^M200312210000 F  2106-3^W x		
<b>Failures interpretation</b> <span style="float: right;">View</span>		
<b>Summary</b>		
<input type="checkbox"/> 0 Errors		
<input type="checkbox"/> 32 Alerts		
<input type="checkbox"/> 2 Warnings		
<b>Validation Errors</b>		Count : 0
<b>Validation Alerts</b>		Count : 32
<b>Validation Warnings</b>		Count : 2



		<p>C) Adult Patient</p>
<p>170.315(f)(3) Transmission to public health agencies — reportable laboratory tests and value/results</p>	<p>Infomedika will partner with the same customers from both the inpatient and ambulatory centers to set up test patients, as well as lab result triggers to send lab results to the <a href="#">NIST Electronic Laboratory Reporting (ELR) Context-free Validator</a> to show that these capabilities are available in the customer's production environment and ready for use when the Health Department wants them.</p>	<p><b>Justification:</b></p> <ul style="list-style-type: none"> <li>• Infomedika is currently sending ALL CCDAs and Lab results and reports to the Health Department, rather than using the f3 selected triggered tests and results. The certified capability was initially designed to use just the triggered tests and results, but the Health Department pivoted to request everything.</li> <li>• As a result, the ELR triggers are not being used, but they are present and available for when the health department wants them.</li> </ul> <p><b>Expected outcomes:</b></p> <ul style="list-style-type: none"> <li>○ A qualifying laboratory result will trigger the creation of an ELR message when qualifying lab result are entered.</li> <li>○ A well-formed ELR message has been validated using the NIST ELR Context-free Validator.</li> </ul>

