

Free!
**Easy-access tool to test for
HL7 v2 conformance**

- ✓ EHR and IIS vendor self-testing
- ✓ AIRA Assessment Testing
- ✓ HIMSS/CNI/CDC EHR Certification Testing
- ✓ ONC HIT Certification Testing
- ✓ On-boarding

**Better data quality, faster interface development,
and reduced costs**

Issues and Need

- CDC developed and prescribes use of HL7 v2.5.1 Implementation Guide for Immunization Messaging R1.5 for
 - Submission of immunizations
 - Query and response of immunization records
- Implementers must apply Standard as specified for seamless data exchange

Description of NIST HL7 v2 Immunization Test Suite

- Testing checks for non-conformance to Standard
- NIST test tool includes both context-free testing and context-based testing
- Context-free testing provides a simple method for testing message structure and vocabulary
- Context-based testing provides
 - Additional testing capabilities through the means of directed test cases and example messages
 - A powerful mechanism to help implementers understand the intent of the implementation guide via typical real world scenarios

NIST Immunization Test Suite

<https://hl7v2-iz-r1.5-testing.nist.gov/>

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Advantages

- Implementations that conform to the standard are more likely to interoperate seamlessly upon installation, saving both time and money

**The NIST HL7 v2 testing tool is used by implementers for
self-testing, ONC EHR Certification, HIMSS EHR Certification,
and AIRA Assessment**

6/16/18

NIST Immunization Test Suite - HL7 v2 Message Testing

1 Select HL7 Context-free from the Menu Bar.

2 Select conformance Profile.

3 Load the message into the Message Content window.

4 Click the Validate button to initiate validation of the message.

5 View the validation results displayed in the Message Validation Result window.

6 Click on the Report button to view the Message Validation Report

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Test Execution

Profile Group Type: Public Profile Groups: Immunization 2.5.1 IG Release 1.5

Profiles: VXU-Z22, ACK-Z23, QBP-Z34, QBP-Z44, RSP-Z31, RSP-Z32, RSP-Z33, RSP-Z42

Validation Report Profile Viewer Value Sets

Message Tree

- MSH[1]:Message Header R[1,1]
- PID[1]:Patient Identification R[1,1]
- PD[1]:Patient Additional Demographic RE[0,1]
- NK[1]:Next of Kin / Associated Parties RE[0,*]
- ORC[1]:Common Order R[1,1]
- RXA[1]:Pharmacy/Treatment Administration R[1,1]
 - RXA[1]-1[1]:Give Sub-ID Counter R[1,1]
 - RXA[1]-2[1]:Administration Sub-ID Counter R[1,1]
 - RXA[1]-3[1]:Date/Time Start of Administration R[1,1]
 - RXA[1]-5[1]:Administered Code R[1,1]
 - RXA[1]-5[1].1:Identifier R
 - 33332-0010
 - RXA[1]-5[1].2:Text RE

Message Content

```
MSH|^~\&|Test EHR Application|X68||NIST Test Iz Reg|20120701082240-0500|
PID|1||D26376273^^^NIST MPI^MR||Snow^Madelynn^Ainsley^^^L|Lam^Morgan^^^
PD1|||||02^Reminder/Recall - any method^HL70215|||||A|20120701|201
NK1|1|Lam^Morgan^^^L|MTH^Mother^HL70063|32 Prescott Street Ave^^Marwic
ORC RE||IZ-783274^NDA|||||I-23432^Burden^Donna^A^^^NIST-AA-1^^^PRN|
6 RXA 0|1|20120814||33332-0010^Influenza, seasonal, injectable, preservati
7 RXR C28161^Intramuscular^NCIT|LD^Left Arm^HL70163
8 OBX 1 CE|64994-7^Vaccine funding program eligibility category^LN1|V05^V
9 OBX 2 CE|30956-7^Vaccine type^LN2|88^Influenza, unspecified formulation
10 OBX 3 TS|29768-9^Date vaccine information statement published^LN2|20120
11 OBX 4 TS|29769-7^Date vaccine information statement presented^LN2|20120
```

Message Validation Result

2 Errors 17 Warnings 21 Alerts

2 All 1 Value Set 1 Coded Element

Highlight All

Path	Description	Line#
RXA[1]-5[1].1	The value '33332-0010' at location Component RXA-5.1 (Identifier) is not a member of the value set NDC_Use or NDC_Sale	6
NK[1]-3[1].3	Invalid Code System: Expected: 'HL70063', Found: 'HL70064'	4

Message Validation Result Help Remove Duplicates Report