

Real World Testing Plan Report ID, Public Health Reporting: 20211203iat-4

Public Health Syndromic Surveillance

Version 1.6
CHPL Product #
15.05.05.2760.ISSR.01.00.0.180820

<https://new.iatric.com/real-world-testing>

Public Health Reportable Labs

Version 1.6
CHPL Product #
15.05.05.2760.ISRL.01.00.0.180918

<https://new.iatric.com/real-world-testing>

Public Health Immunizations

Version 1.6
CHPL Product #
15.05.05.2760.ISIR.01.00.0.181129

<https://new.iatric.com/real-world-testing>

Summary of Testing Method(s) and Key Findings

Measure 1: Testing Methodology: 170.315(f)(1) Transmission to Immunization Registries
 Measure 2: Testing Methodology: 170.315 (f)(2) Transmission to Public Health Agencies - Syndromic Surveillance
 Measure 3: Testing Methodology: 170. 315 (f)(3) Transmission to Public Health Agencies - Reportable Laboratory Tests and Values/Results

We used the existing customer's system to validate the successful creation of a message of identified laboratory tests and values/results for 170.315(f)(1), 170.315(f)(2), 170.315(f)(3)

Real World Testing of the Public Health reporting software validated the successful use of HL7 message transmission of Immunization, Syndromic Surveillance, and Laboratory clinical results. Our activity audit trail logging enabled easy review of analytical information of the messages, including timestamps, total messages sent, and status of message. Detailed logging enabled manual confirmation of message content.

During review, we determined that retention of statistical message information varies by site, with most customers purging their data at 30, 60, or 90 days. Learning this has enabled us to better prepare for 2023 real world testing.

Aside from purged analytics, no issues or oddities were encountered during the review.

Challenges Encountered

Our Real-World Testing plan did not anticipate the short purge parameters of the HL7 messages. Future RWT analysis would consider this.

Relied Upon Software

No required software.

Standards and Updates

NA

Care Setting (list each care setting that was tested)

Hospital Care Setting

Metrics and Outcomes

Data Review

	170.315(f)(1) Immunization/Vaccine	170.315(f)(2) Syndromic Surveillance	170.315(f)(3) Laboratory
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Identified patients with applicable results.	✓	✓	✓
Used the routines utilized by our customers and validated the messages that were created.	✓	✓	✓
Validated the content of the messages matches the data for the identified patient in their system.	✓	✓	✓

Message Delivery Review

Average monthly messages and downtime events

	170.315(f)(1) Immunization/Vaccine	170.315(f)(2) Syndromic Surveillance	170.315(f)(3) Laboratory	Incidents of downtime avg.
Site A	7	10364	1251	<1/month
Site B	10	12296	1360	<1/month
Site C	1	9522	326	X
Site D	X	X	1267	1/day

Expected Outcome

It was expected that the data transmitted would be identical to that of the data received and the data would be successfully processed by the receiving entity. Error rates were tracked and analyzed over time.

Actual Outcome

Due to various customer-defined purge parameters on message data, we approached the data analysis on a monthly average.

The data reviewed confirmed that messages were triggered appropriately and in the proper message format. Further, review of our alerting process was included:

1. Downtime events were reported
2. Downtime events were defined to correct themselves

In the samples of customer data obtained, 2 systems reported, on average, 0 downtime events. One sample showed that there was a system downtime every night at approximately 3:00 AM. This was generally related to scheduled downtimes or antivirus updates. Our logs indicate that our system properly restarted when resources were available.

KEY MILESTONES

Key Milestone	Care Setting	Date/Timeframe
Review of 170.315(f)(1) message and delivery	Hospital setting	March 2022 – September 2022

Review of 170.315(f)(2) message and delivery	Hospital setting	March 2022 – September 2022
Review of 170.315(f)(3) message and delivery	Hospital setting	March 2022 – September 2022
Review of alerting software	Hospital setting	March 2022 – September 2022

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