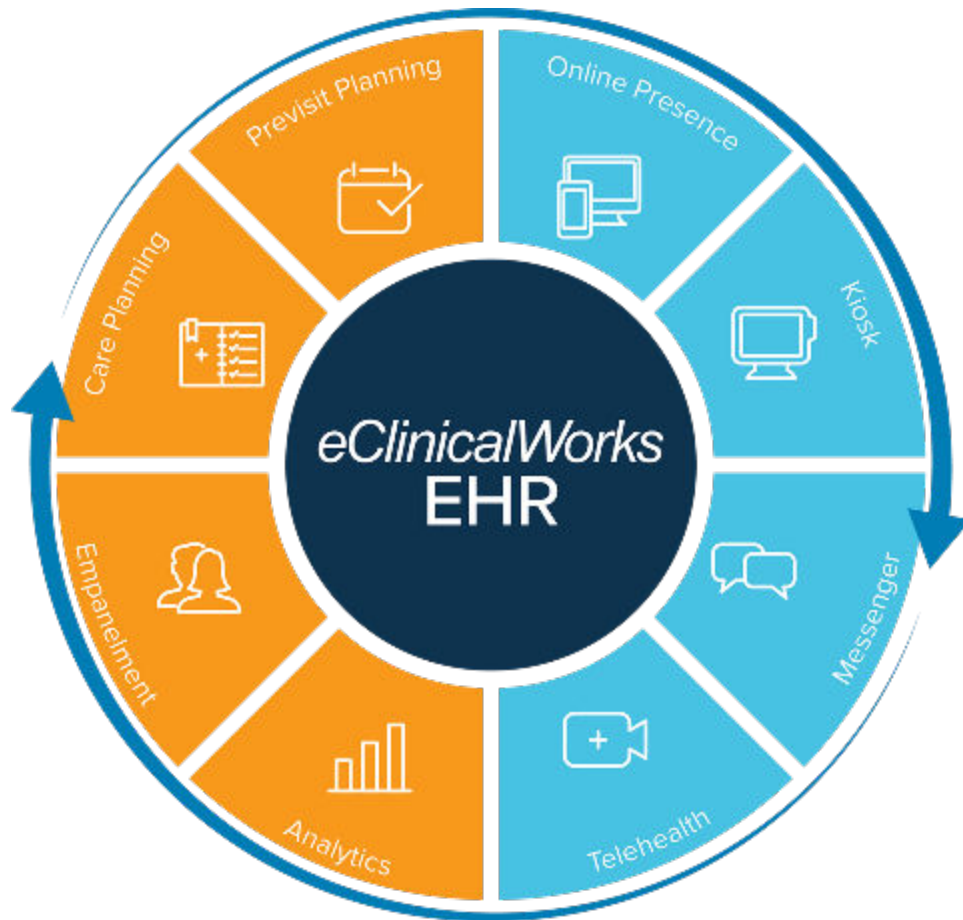


eClinicalWorks

REAL WORLD TESTING - 2022 RESULTS REPORT

Version 2.0—March 2023



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REAL WORLD TESTING - 2022 RESULTS REPORT

This document describes the results from eClinicalWorks® (eCW) *Real World Testing - 2022 Test Plan*.

1. Introduction

The 21st Century Cures Act Final Rule mandates that health IT developers of certified health IT test the real-world use of health IT for interoperability, as defined by the 2015 Edition Certification Criteria. The functionality and use cases included in this testing effort include all certification criteria under 45 C.F.R. § 170.315(b)(1)-(3), (b)(6), (c)(1)-(3), (e)(1), (f)(1)-(2), (f)(7), (g)(7)-(9), and (h)(1) to which eClinicalWorks is certified as of August 31, 2021, specifically:

- (b)(1) Transitions of Care
- (b)(2) Clinical Information Reconciliation and Incorporation
- (b)(3) Electronic Prescribing
- (b)(6) Data Export
- (c)(1) Clinical Quality Measures (CQMs) – Record and Export
- (c)(2) Clinical Quality Measures (CQMs) – Import and Calculate
- (c)(3) Clinical Quality Measures (CQMs) – Report
- (e)(1) View, Download, and Transmit to 3rd Party
- (f)(1) Transmission to Immunization Registries
- (f)(2) Transmission to Public Health Agencies – Syndromic Surveillance
- (f)(7) Transmission to Public Health Agencies – Health Care Surveys
- (g)(7) Application Access – Patient Selection

(g)(8) Application Access – Data Category Request

(g)(9) Application Access – All Data Request

(h)(1) Direct Project

This report describes the results of measuring the real world usage of these criteria as outlined in the *Real World Testing – 2022 Test Plan*.

The following list describes each component of the results report for each respective certification criterion:

- **Testing Methodology/Method** describes the approach (e.g., steps, conditions, etc.) a tester used to evaluate the functionality of the certification criteria.
- **Metric Definition** describes the measurement used to determine the usage of the criteria in a real world setting.
- **Care/Practice Settings** describes the type of settings in which the certification criteria were tested. eClinicalWorks is an ONC-certified product designed to be used in a variety of ambulatory care settings. eClinicalWorks customers serve patients in a variety of primary care and specialty care settings. For the purposes of real world testing, eClinicalWorks measured data from all settings in which the EHR was used.
- **Milestones** describes the timeline that eClinicalWorks used to evaluate the progress of its test plan.
- **Expected Outcome** describes the result of successfully completing the test case.
- **Summary of Testing Methods and Key Findings** provides a summary of the real world testing methods deployed to demonstrate real-world interoperability across eClinicalWorks.
- **Relied Upon Software** describes additional software that is independent of the core EHR, but is required to fulfill the functionality described in the certification criteria.

2. General Information

| | | |
|--------------------------------------|---|-----------------------------------|
| Developer Name | eClinicalWorks, LLC | |
| Product Name and Version Number | eClinicalWorks V11.52 | |
| Product List (CHPL) IDs | V11.52.153 | 15.04.04.2883.eCli.11.01.1.211228 |
| | V11.52.225 | 15.04.04.2883.eCli.11.02.1.220201 |
| | V11.52.241 | 15.04.04.2883.eCli.11.03.1.220201 |
| | V11.52.301 | 15.04.04.2883.eCli.11.04.1.220201 |
| | V11.52.305 | 15.04.04.2883.eCli.11.05.1.220411 |
| | V11.52.399 | 15.04.04.2883.eCli.11.06.1.220929 |
| Real World Testing Plans and Results | https://www.eclinicalworks.com/resources/certified-ehr-technology | |

3. Withdrawn Products

| | |
|---------------------------------|-----------------------------------|
| Developer Name | eClinicalWorks, LLC |
| Product Name and Version Number | eClinicalWorks V11 |
| Product List (CHPL) IDs | 15.04.04.2883.eCli.11.00.1.171228 |
| Date Withdrawn | June 3, 2022 |

| | |
|-------------------------------------|--|
| Inclusion of Data in Results Report | The withdrawal of V11 from CHPL does not affect the data in this results report because the change on CHPL reflects versioning within V11. The customers and EHR features under the V11 CHPL listing would be the same under the current listings on CHPL. The current listings on CHPL reflect sub-versions within the main V11 build and would not have an effect on data results. |
|-------------------------------------|--|

4. Milestones

The following table describes the eCW 2022 Real World Testing Milestones:

| Date/Timeline | Milestone |
|-------------------------------|--|
| November 2021 | 2022 Plan Submission: Submit the 2022 Real World Testing Plan. |
| January 2022 – January 2023 | Monthly Data Collection <ul style="list-style-type: none"> ▪ Consult with stakeholders from the Product Management and Engineering Teams on scripts and testing methods for collecting data ▪ Conduct data collection on a monthly basis for calendar year 2022 |
| October 2022 | 2023 Plan Submission Submit the 2023 Real World Testing Plan with updates to the milestone timeline, certification criteria, or standards for calendar year 2023. |
| November 2022 - February 2023 | Analysis and Results Reporting Collect data and compile report for the 2022 Test Plan. |
| February 2023 | Results Report Submission for Real World Testing 2022 to ONC-ACB |

5. Acronyms and Terms

The following table lists the acronyms and terms used in this document:

| Acronym/Term | Definition |
|---------------------|---|
| ACK | HL7 message type used in message acknowledgement between health IT systems |
| ADT | Admit-Discharge-Transfer; HL7 message type used to communicate patient demographics, visit information, and events (e.g., patient admit, patient discharge, patient transfer, etc.) |
| API | Application Programming Interface |
| APU | Auto-Practice Upgrade |
| C-CDA | Consolidated Clinical Document Architecture |
| CCDS | Common Clinical Data Set |
| CQM | Clinical Quality Measure |
| eClinicalWorks P2P® | eClinicalWorks Provider-to-Provider network |
| eCW | eClinicalWorks |
| EHR | Electronic Health Record |
| ePHI | Electronic Protected Health Information |
| FHIR® | Fast Healthcare Interoperability Resources |
| HIPAA | Health Insurance Portability and Accountability Act |
| NHCS | National Hospital Care Survey |
| ONC | Office of the National Coordinator for Health Information Technology |
| QBP | Query-Based Parameter; HL7 message type used for immunization queries |

| Acronym/Term | Definition |
|--------------|--|
| RSP | Segment Pattern Response: HL7 message type used for immunization responses between health IT systems and immunization information systems used by state registries |
| SQL | Structured Query Language |
| SVAP | Standards Version Advancement Process |
| USCDI | United States Core Data for Interoperability |
| VXU | HL7 message type used to transmit patient immunization information |

6. Changes to Original Plan

The original plan called for reaching out to a sample of customers, however early in our testing we decided to gather data from all customers as this would give a better picture of how the interoperability features within the EHR are being utilized in the real world. Refer to the specific criteria in section [9. Test Results](#) for further details.

7. Standards Updates

The Standards Version Advancement Process was not utilized for 2022. All criteria listed in the test plan and results report adhere to the standards referenced in the 2015 Edition. In 2022, eClinicalWorks updated its certified health IT to USCDI v1, C-CDA R2.1, and US Core 3.1.1, as required by the 2015 Edition Cures Update. These changes will be reflected in an updated real world testing plan for calendar year 2023.

8. Summary of Testing Methods and Key Findings

Refer to section [9. Test Results](#) for the summary of testing methods and key findings for each criterion tested in 2022.

9. Test Results

The following sections outline the results reporting for the certification criteria identified in section 1. Introduction.

(b)(1) Transitions of Care

The following table outlines the test plan and findings for the (b)(1) Transitions of Care criterion:

| | |
|---|---|
| Criterion Description | Enables a user to send and receive transition of care documents via edge protocol, validate and display C-CDAs, and create transition of care/referral summaries. |
| Testing Methodology/Method | <ul style="list-style-type: none">▪ The tester will identify customers who have sent a transition of care/referral summary to a different provider through the eClinicalWorks P2P network.▪ The tester will run a query to determine the number of times the user performed the (b)(1) workflow (transition of care/referral summary using P2P). |
| Metric Definition | All customers using P2P are able to create and send transition of care/referral summary documents (which includes referrals and patient records) through the eCW P2P workflow for: <ul style="list-style-type: none">▪ Number of transition of care documents sent▪ Number of transition of care documents received |
| Care/Practice Settings | eClinicalWorks is an ONC-certified product designed to be used in a variety of ambulatory care settings. eClinicalWorks customers serve patients in a variety of ambulatory care settings. For the purposes of real world testing, eClinicalWorks measures data from all settings in which the EHR was used. |
| Milestones | For a detailed milestone timeline, refer to section 4. Milestones . |
| Expected Outcome | Evidence of a transition of care/referral summary sent and received with all document sections visible to the user in a human readable format. |
| Summary of Testing Methods and Key Findings | During the validation, eClinicalWorks gathered monthly sample reports by running SQL scripts from production unique APU IDs and gathered the transactions for the total number of transition of care documents sent and received, which includes referrals and patient records. The following transaction data are the evidence of a transition of care/referral summary that has been sent and received. |

Relied Upon Software
(if applicable)

eClinicalWorks P2P module and eClinicalWorks C-CDA Adapter

Transaction Counts for (b)(1):

| Metric Definition | Jan 2022 | Feb 2022 | Mar 2022 | Apr 2022 | May 2022 | Jun 2022 | Jul 2022 | Aug 2022 | Sep 2022 | Oct 2022 | Nov 2022 | Dec 2022 |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Total number of transition of care messages sent | 106,950 | 111,069 | 141,507 | 128,084 | 125,952 | 126,102 | 115,253 | 141,557 | 135,377 | 137,927 | 132,091 | 114,784 |
| Total number of transition of care messages received | 419,704 | 322,419 | 358,158 | 403,848 | 441,555 | 416,358 | 405,353 | 453,382 | 454,772 | 480,124 | 490,969 | 422,839 |

(b)(2) Clinical Information Reconciliation and Incorporation

The following table outlines the test plan and findings for the (b)(2) Clinical Information Reconciliation and Incorporation criterion:

| | |
|---|---|
| Testing Methodology/Method | <p>The tester will identify customers that have received and incorporated a transition of care/referral summary document into the patient’s record.</p> <p>eClinicalWorks recognizes that not all customers use the full functionality of the certification criteria. If eClinicalWorks is unable to identify customers that use the (b)(2) criterion (or any criterion throughout this test plan) as defined in the regulation, then that will be reflected in the results report.</p> |
| Metric Definition | <p>All customers using P2P are able to reconcile and incorporate transition of care/referral summary documents (which includes referrals and patient records) through the eCW P2P workflow for:</p> <ul style="list-style-type: none"> ▪ Total number of C-CDA documents matched to a correct patient ▪ Total number of medications added/reconciled to the patient’s record ▪ Total number of allergies added/reconciled to the patient’s record ▪ Total number of problems added/reconciled to the patient’s record |
| Care/Practice Settings | <p>eClinicalWorks is an ONC-certified product designed to be used in a variety of ambulatory care settings. eClinicalWorks customers serve patients in a variety of ambulatory care settings. For the purposes of real world testing, eClinicalWorks will measure data from all settings in which the EHR is used.</p> |
| Milestones | <p>For a milestone timeline, refer to section 4. Milestones.</p> |
| Expected Outcome | <p>A transition of care/referral summary document can be received and incorporated into the customer's EHR and the reconciliation of data into the correct patient's record was verified.</p> |
| Summary of Testing Methods and Key Findings | <p>During the validation, eClinicalWorks gathered monthly sample reports by running SQL scripts from production unique APU IDs and gathered the transactions for the total number of C-CDA documents matched to a correct patient, the total number of medications added/reconciled to the patient’s record, the total number of allergies added/reconciled to the patient’s record and the total number of problems added/reconciled to the patient’s record.</p> |
| Relied Upon Software (if applicable) | <p>eClinicalWorks P2P module and eClinicalWorks C-CDA Adapter</p> |

Transaction Counts for (b)(2):

| Metric Definition | Jan 2022 | Feb 2022 | Mar 2022 | Apr 2022 | May 2022 | Jun 2022 |
|--|----------|----------|----------|----------|----------|----------|
| Total number of incoming requests matched to a correct patient | 712,610 | 584,496 | 656,213 | 666,510 | 671,956 | 656,518 |
| Total number of medications added/reconciled to the patient's record | 1,770 | 1,633 | 2,466 | 2,376 | 10,019 | 2,079 |
| Total number of allergies added/reconciled to the patient's record | 6,169 | 9,642 | 13,510 | 10,131 | 11,077 | 10,743 |
| Total number of problems added/reconciled to the patient's record | 1,788 | 2,313 | 2,684 | 2,507 | 157,530 | 7,316 |

| Metric Definition | Jul 2022 | Aug 2022 | Sep 2022 | Oct 2022 | Nov 2022 | Dec 2022 |
|--|----------|----------|----------|----------|----------|----------|
| Total number of incoming requests matched to a correct patient | 639,494 | 696,085 | 690,529 | 747,593 | 684,850 | 617,514 |
| Total number of medications added/reconciled to the patient's record | 1,673 | 1,569 | 2,335 | 2,175 | 2,020 | 1,362 |
| Total number of allergies added/reconciled to the patient's record | 5,858 | 6,283 | 6,411 | 6,580 | 6,773 | 5,282 |
| Total number of problems added/reconciled to the patient's record | 1,628 | 1,488 | 2,398 | 1,763 | 1,936 | 1,232 |

(b)(3) Electronic Prescribing

The following table outlines the test plan and findings for the (b)(3) Electronic Prescribing criterion:

| | |
|--|---|
| <p>Testing Methodology/Method</p> | <p>eClinicalWorks partners with Surescripts® to validate and transmit electronic prescription orders to pharmacies. For the (b)(3) criterion, the tester will identify the number of transactions for the following transaction types:</p> <ul style="list-style-type: none"> ▪ NewRx - New prescriptions ▪ RxChangeRequest and RxChangeResponse - Requests and responses to change prescriptions ▪ CancelRx and CancelRxResponse - Requests and responses to cancel prescriptions ▪ RxRenewalRequest and RxRenewalResponse - Requests and responses to renew prescriptions ▪ RxFill - Responses with fill status notifications ▪ RxHistoryRequest and RxHistoryResponse - Requests and responses to medication histories |
| <p>Metric Definition</p> | <p>For all customers using e-prescription, the number of transactions sent for each transaction type listed above.</p> |
| <p>Care/Practice Settings</p> | <p>eClinicalWorks is an ONC-certified product designed to be used in a variety of ambulatory care settings. eClinicalWorks customers serve patients in a variety of ambulatory care settings. For the purposes of real world testing, eClinicalWorks will measure data from all settings in which the EHR is used.</p> |
| <p>Milestones</p> | <p>For a milestone timeline, refer to section 4. Milestones.</p> |
| <p>Expected Outcome</p> | <p>All transactions performed by the customer’s EHR are accepted and validated by the Surescripts network.</p> |
| <p>Summary of Testing Methods and Key Findings</p> | <p>The original plan called for counting the number of transactions sent for each transaction type, along with the success rate for each transaction type, over a 90-day period. However, while executing the 2022 Test Plan, eClinicalWorks decided to report only on the transaction counts to keep the type of metrics being reported consistent across all criteria.</p> <p>During the validation, eClinicalWorks gathered monthly sample reports by running SQL scripts from production unique APU IDs and gathered the total number of transactions each month for the NewRx ,RxRenewalResponse (Refills), CancelRx, RxChangeResponse, RxHistoryRequest, RxRenewalRequest, (Refills), CancelRxResponse, RxChangeRequest, RxHistoryResponse and RxFill transaction types from the eClinicalWorks eRx.</p> |

Relied Upon Software
(if applicable)

eClinicalWorks e-prescription cloud and Surescripts

Transaction Counts for (b)(3) Sent:

| Metric Definition | Jan 2022 | Feb 2022 | Mar 2022 | Apr 2022 | May 2022 | Jun 2022 |
|-----------------------------|------------|------------|------------|------------|------------|------------|
| NewRx | 21,775,608 | 19,631,971 | 23,001,289 | 20,843,860 | 21,426,726 | 21,791,662 |
| RxRenewalResponse (Refills) | 6,627,228 | 5,942,837 | 6,699,496 | 6,192,618 | 6,488,291 | 6,485,786 |
| CancelRx | 156,962 | 154,715 | 188,291 | 176,900 | 184,414 | 195,427 |
| RxChangeResponse | 202,981 | 190,829 | 216,545 | 192,405 | 187,678 | 199,225 |
| RxHistoryRequest | 5,401,551 | 5,401,551 | 5,822,647 | 5,283,530 | 5,426,927 | 5,556,398 |

| Metric Definition | Jul 2022 | Aug 2022 | Sep 2022 | Oct 2022 | Nov 2022 | Dec 2022 |
|-----------------------------|------------|------------|------------|------------|------------|------------|
| NewRx | 19,641,323 | 22,439,702 | 21,412,955 | 22,210,507 | 22,838,609 | 21,745,637 |
| RxRenewalResponse (Refills) | 6,105,939 | 6,722,039 | 6,184,150 | 6,309,890 | 6,179,390 | 5,941,051 |
| CancelRx | 181,110 | 213,297 | 208,385 | 220,067 | 234,234 | 228,831 |
| RxChangeResponse | 179,933 | 201,555 | 182,920 | 174,185 | 176,264 | 176,041 |
| RxHistoryRequest | 5,180,059 | 6,083,278 | 6,582,607 | 7,807,750 | 7,517,648 | 7,012,776 |

Transaction Counts for (b)(3) Received:

| Metric Definition | Jan 2022 | Feb 2022 | Mar 2022 | Apr 2022 | May 2022 | Jun 2022 |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| RxRenewalResponse (Refills) | 7,908,965 | 7,133,936 | 8,041,695 | 7,536,858 | 7,862,274 | 7,887,302 |
| CancelRxResponse | 129,887 | 129,730 | 158,663 | 149,585 | 155,876 | 164,491 |
| RxChangeRequest | 311,101 | 314,818 | 354,441 | 333,805 | 338,846 | 352,020 |
| RxHistoryResponse | 5,389,315 | 5,389,315 | 5,816,417 | 5,277,657 | 5,423,139 | 5,550,853 |
| RxFill | 45,705 | 47,371 | 56,944 | 50,569 | 52,211 | 55,922 |

| Metric Definition | Jul 2022 | Aug 2022 | Sep 2022 | Oct 2022 | Nov 2022 | Dec 2022 |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| RxRenewalResponse (Refills) | 7,730,006 | 8,042,626 | 7,602,756 | 7,678,566 | 7,539,103 | 7,214,644 |
| CancelRxResponse | 152,879 | 181,822 | 178,114 | 188,108 | 202,694 | 198,119 |
| RxChangeRequest | 340,696 | 374,357 | 343,431 | 347,427 | 359,774 | 363,829 |
| RxHistoryResponse | 5,176,601 | 6,077,645 | 6,578,808 | 7,803,235 | 7,512,737 | 7,007,978 |
| RxFill | 53,811 | 61,487 | 58,572 | 58,920 | 62,899 | 57,896 |

(b)(6) Data Export

The following table outlines the test plan and findings for the (b)(6) Data Export criterion:

| | |
|---|--|
| Testing Methodology/Method | <p>The tester will identify customers who have utilized the Data Export functionality within the EHR. The tester will run a query to determine the number of times the user generated a C-CDA file using Data Export.</p> <p>eClinicalWorks recognizes that not all customers use the full functionality of the certification criteria made available in the EHR. If eClinicalWorks is unable to identify customers that use the (b)(6) criterion as defined in the regulation, then that will be reflected in the results report.</p> |
| Metric Definition | <ul style="list-style-type: none"> ▪ Number of C-CDA documents in all exports generated ▪ Number of export requests across all customers |
| Care/Practice Settings | <p>eClinicalWorks is an ONC-certified product designed to be used in a variety of ambulatory care settings. eClinicalWorks customers serve patients in a variety of ambulatory care settings. For the purposes of real world testing, eClinicalWorks will measure data from all settings in which the EHR is used.</p> |
| Milestones | <p>For a milestone timeline, refer to section 4. Milestones.</p> |
| Expected Outcome | <p>The data export file (C-CDA) was successfully generated for each of the scenarios listed in the testing method (real-time/on-demand and specific date range defined by the user).</p> |
| Summary of Testing Methods and Key Findings | <p>During the validation, eClinicalWorks gathered monthly sample reports by running SQL scripts from production unique APU IDs and gathered the transactions based on the total number of successful C-CDA documents in all exports generated, along with the total number of export requests across all customers of eClinicalWorks either on-demand or real time.</p> |
| Relied Upon Software (if applicable) | <p>eClinicalWorks C-CDA Adapter</p> |

Transaction Counts for (b)(6):

| Metric Definition | Jan 2022 | Feb 2022 | Mar 2022 | Apr 2022 | May 2022 | Jun 2022 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|
| Number of C-CDA documents in all exports generated | 5,482,660 | 4,123,102 | 4,064,399 | 4,867,464 | 5,166,160 | 2,728,393 |
| Number of export requests across all customers | 351 | 349 | 349 | 326 | 351 | 351 |

| Metric Definition | Jul 2022 | Aug 2022 | Sep 2022 | Oct 2022 | Nov 2022 | Dec 2022 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|
| Number of C-CDA documents in all exports generated | 2,484,430 | 9,311,736 | 6,745,539 | 3,877,811 | 4,060,450 | 4,898,177 |
| Number of export requests across all customers | 344 | 359 | 372 | 343 | 340 | 355 |

(c)(1) Clinical Quality Measures (CQMs) - Record and Export, (c)(2) Clinical Quality Measures (CQMs) - Import and Calculate, and (c)(3) Clinical Quality Measures (CQMs) - Report

The following table outlines the test plan and findings for the (c)(1) Clinical Quality Measures (CQMs) – Record and Export, (c)(2) Clinical Quality Measures (CQMs) – Import and Calculate, and (c)(3) Clinical Quality Measures (CQMs) – Report criteria:

| | |
|----------------------------|--|
| Testing Methodology/Method | <p>The tester will identify customers who have enabled the CQM functionality within the EHR and run a query to determine the number of files generated across all measures supported by the EHR.</p> <p>eClinicalWorks recognizes that not all customers use the full functionality of the certification criteria made available in the EHR. If eClinicalWorks is unable to identify customers that use the (c)(1)-(3) criteria as defined in the regulation, then that will be reflected in the results report.</p> |
| Metric Definition | <p>(c)(1) Clinical Quality Measures (CQMs) - Record and Export:</p> <ul style="list-style-type: none"> ▪ Number of customers that enabled this functionality ▪ Number of customers who made requests for a QRDA I export <p>(c)(2) Clinical Quality Measures (CQMs) - Import and Calculate:</p> <ul style="list-style-type: none"> ▪ Number of customers that enabled this functionality ▪ Number of customers who made requests for a QRDA I import <p>(c)(3) Clinical Quality Measures (CQMs) - Report:</p> <ul style="list-style-type: none"> ▪ Number of customers that enabled this functionality ▪ Number of customers who made requests for a QRDA III export |
| Care/Practice Settings | <p>eClinicalWorks is an ONC-certified product designed to be used in a variety of ambulatory care settings. eClinicalWorks customers serve patients in a variety of ambulatory care settings. For the purposes of real world testing, eClinicalWorks will measure data from all settings in which the EHR is used.</p> |
| Milestones | <p>For a milestone timeline, refer to section 4. Milestones.</p> |
| Expected Outcome | <p>Users are able to generate an export/import file for each clinical quality measure used by the customer.</p> |

| | |
|--|---|
| <p>Summary of Testing Methods and Key Findings</p> | <p>During the validation for (c)(1) criterion, eClinicalWorks gathered monthly sample reports by running SQL scripts from production unique APU IDs and gathered the number of practices which successfully enabled the QRDA I Export for the given year. Out of the customers who enabled the QRDA I export, eClinicalWorks gathered the customers who made a successful QRDA I Export each month for at least one export file created, which can consist of more than one measure. For (c)(2) criterion, eClinicalWorks gathered monthly sample reports by running SQL scripts from production unique APU IDs and gathered the number of practices which successfully enabled the QRDA I Import for the given year. Out of the customers who enabled the QRDA I Import, eClinicalWorks gathered the customers who made a successful QRDA I Import each month for at least one export file created, which can consist of more than one measure. For (c)(3) criterion eClinicalWorks followed a similar approach; eClinicalWorks gathered monthly sample reports by running SQL scripts from production unique APU IDs and gathered the number of practices which successfully enabled the QRDA III Export for the given year. Out of the customers who enabled the QRDA III Export, we gathered the customers who made a successful QRDA III Export each month for at least one export file created, which can consist of more than one measure.</p> |
| <p>Relied Upon Software (if applicable)</p> | <p>eClinicalWorks QRDA Functionality and eClinicalWorks APU Tool</p> |

Transaction Counts for (c)(1):

| Metric Definition | Jan 2022 | Feb 2022 | Mar 2022 | Apr 2022 | May 2022 | Jun 2022 | Jul 2022 | Aug 2022 | Sep 2022 | Oct 2022 | Nov 2022 | Dec 2022 |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Total number of customers that enabled the QRDA I export | 317 | 317 | 307 | 318 | 322 | 328 | 334 | 334 | 339 | 347 | 355 | 359 |
| Total number of requests made for a QRDA I export | 19 | 10 | 3 | 12 | 4 | 27 | 27 | 26 | 24 | 21 | 136 | 25 |

Transaction Counts for (c)(2):

| Metric Definition | Jan 2022 | Feb 2022 | Mar 2022 | Apr 2022 | May 2022 | Jun 2022 | Jul 2022 | Aug 2022 | Sep 2022 | Oct 2022 | Nov 2022 | Dec 2022 |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Total number of customers that enabled the QRDA I import | 299 | 299 | 288 | 299 | 304 | 309 | 296 | 296 | 297 | 305 | 315 | 319 |
| Total number of requests made for a QRDA I import | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 3 | 4 |

Transaction Counts for (c)(3):

| Metric Definition | Jan 2022 | Feb 2022 | Mar 2022 | Apr 2022 | May 2022 | Jun 2022 | Jul 2022 | Aug 2022 | Sep 2022 | Oct 2022 | Nov 2022 | Dec 2022 |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Total number of customers that enabled the QRDA III export | 471 | 471 | 455 | 471 | 469 | 480 | 487 | 482 | 491 | 498 | 507 | 511 |
| Total number of requests made for a QRDA III export | 126 | 93 | 12 | 0 | 3 | 3 | 5 | 1 | 2 | 4 | 5 | 12 |

(e)(1) View, Download, and Transmit to 3rd Party

The following table outlines the test plan and findings for the (e)(1) View, Download, and Transmit to 3rd Party criterion:

| | |
|---|---|
| Testing Methodology/Method | The tester will identify customers who have granted eClinicalWorks Patient Portal™ access to their patients. The tester will run a query to determine the number of patients who accessed the Patient Portal and were able to view, download, or transmit their health information. |
| Metric Definition | <ul style="list-style-type: none"> ▪ Total number of times patients viewed their health information through the Visit Summary ▪ Total number of times patients downloaded their health information ▪ Total number of times patients transmitted their health information to a third party using the Direct or email method |
| Care/Practice Settings | eClinicalWorks is an ONC-certified product designed to be used in a variety of ambulatory care settings. eClinicalWorks customers serve patients in a variety of ambulatory care settings. For the purposes of real world testing, eClinicalWorks will measure data from all settings in which the EHR is used. |
| Milestones | For a milestone timeline, refer to section 4. Milestones . |
| Expected Outcome | Patients are able to view, download, or transmit their health information using the Patient Portal. |
| Summary of Testing Methods and Key Findings | During the validation, eClinicalWorks gathered monthly sample reports by running SQL scripts from production unique APU IDs and gathered the total number of times patients viewed their health information through Visit Summary, the total number of times patients downloaded their health information, and the total number of times patients transmitted their health information to a third party using Direct/Email. |
| Relied Upon Software (if applicable) | eClinicalWorks Patient Portal and eClinicalWorks C-CDA Adapter |

Transaction Counts for (e)(1):

| Metric Definition | Jan 2022 | Feb 2022 | Mar 2022 | Apr 2022 | May 2022 | Jun 2022 |
|---|----------|----------|----------|----------|----------|----------|
| Total number of times patients viewed their health information through the Visit Summary | 808,497 | 667,137 | 751,339 | 660,073 | 619,233 | 514,862 |
| Total number of times patients downloaded their health information | 182,456 | 154,331 | 174,494 | 146,669 | 132,517 | 113,855 |
| Total number of times patients transmitted their health information to a third-party using Direct/email | 9,046 | 7,088 | 8,116 | 6,949 | 6,795 | 6,111 |

| Metric Definition | Jul 2022 | Aug 2022 | Sep 2022 | Oct 2022 | Nov 2022 | Dec 2022 |
|---|----------|----------|----------|----------|----------|----------|
| Total number of times patients viewed their health information through the Visit Summary | 629,828 | 727,436 | 656,782 | 735,756 | 703,096 | 662,368 |
| Total number of times patients downloaded their health information | 146,350 | 171,284 | 152,332 | 162,020 | 157,738 | 157,715 |
| Total number of times patients transmitted their health information to a third-party using Direct/email | 7,278 | 9,164 | 7,616 | 7,561 | 7,240 | 6,295 |

(f)(1) Transmission to Immunization Registries

The following table outlines the test plan and findings for the (f)(1) Transmission to Immunization Registries criterion:

| | |
|---|---|
| Testing Methodology/Method | The tester will identify customers who have implemented an immunization interface with a state registry. The tester will run a query to determine the number of VXU and QBP messages sent to an immunization registry. |
| Metric Definition | <ul style="list-style-type: none"> ▪ Number of practices with a live immunization interface (either unidirectional (VXU) or bidirectional (QBP/RSP) interface) ▪ Number of VXU messages sent ▪ Number of QBP messages sent |
| Care/Practice Settings | eClinicalWorks is an ONC-certified product designed to be used in a variety of ambulatory care settings. eClinicalWorks customers serve patients in a variety of ambulatory care settings. For the purposes of real world testing, eClinicalWorks will measure data from all settings in which the EHR is used. |
| Milestones | For a detailed milestone timeline, refer to section 4. Milestones . |
| Expected Outcome | Users are able to document immunizations and receive a response from the registry acknowledging that the VXU or QBP message was successfully received. |
| Summary of Testing Methods and Key Findings | During the validation, eClinicalWorks gathered monthly sample reports by running SQL scripts from production unique APU IDs and gathered the multiple practices who are live with the immunization registry interface and in real time utilizes the interface to send the VXU and QBP messages outbound to the registry. During implementation of the interface, eClinicalWorks worked with registries on what value set data needs to be available in the message. Also, eClinicalWorks gathered the total number of monthly transactions of immunizations documented and immunization queries sent, instead of the percentage of immunizations documented and immunization queries sent as described in the original test plan. |
| | Note: There is no data available for Jan 2022 since QBP message logs are purged every 30 days. |
| Relied Upon Software (if applicable) | eClinicalWorks Immunization Hub |

Transaction Counts for (f)(1):

| Metric Definition | Jan 2022 | Feb 2022 | Mar 2022 | Apr 2022 | May 2022 | Jun 2022 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|
| Number of practices with a live Immunization Interface | 5,454 | 5,446 | 5,461 | 5,482 | 5,520 | 5,562 |
| Number of VXU messages sent | 1,465,050 | 2,368,491 | 2,245,869 | 1,792,317 | 1,733,242 | 1,737,375 |
| Number of QBP messages sent | 0 | 2,674,502 | 2,855,347 | 2,623,809 | 2,252,921 | 2,171,468 |

| Metric Definition | Jul 2022 | Aug 2022 | Sep 2022 | Oct 2022 | Nov 2022 | Dec 2022 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|
| Number of practices with a live Immunization Interface | 5,583 | 5,597 | 5,609 | 5,649 | 5,674 | 5,690 |
| Number of VXU messages sent | 1,633,610 | 2,365,720 | 2,860,287 | 3,746,064 | 3,073,363 | 2,274,762 |
| Number of QBP messages sent | 2,065,752 | 2,193,538 | 2,927,569 | 3,248,592 | 3,613,400 | 3,522,358 |

(f)(2) Transmission to Public Health Agencies - Syndromic Surveillance

The following table outlines the test plan and findings for the (f)(2) Transmission to Public Health Agencies – Syndromic Surveillance criterion:

| | |
|---|--|
| Testing Methodology/Method | The tester will identify customers who have implemented a syndromic surveillance interface with a public health department. The tester will run a query to determine the number of ADT syndromic surveillance messages sent to a registry. |
| Metric Definition | <ul style="list-style-type: none"> ▪ Number of practices with a live syndromic surveillance interface ▪ Number of ADT syndromic surveillance messages sent |
| Care/Practice Settings | eClinicalWorks is an ONC-certified product designed to be used in a variety of ambulatory care settings. eClinicalWorks customers serve patients in a variety of ambulatory care settings. For the purposes of real world testing, eClinicalWorks will measure data from all settings in which the EHR is used. |
| Milestones | For a detailed milestone timeline, refer to section 4. Milestones . |
| Expected Outcome | As defined by the Metric Definition, syndromic surveillance messages transmitted to a registry are successfully received and acknowledged by a state registry. |
| Summary of Testing Methods and Key Findings | During the validation, eClinicalWorks gathered monthly sample reports by running SQL scripts from production unique APU IDs every 30 days instead of capturing percentage of messages sent out by a single practice every 90 days, which was mentioned in the original test plan. eClinicalWorks gathered the transactions from all practices with an active syndromic surveillance interface. |
| Relied Upon Software (if applicable) | eClinicalWorks Syndromic Surveillance Hub |

Transaction Counts for (f)(2):

| Metric Definition | Jan 2022 | Feb 2022 | Mar 2022 | Apr 2022 | May 2022 | Jun 2022 |
|--|----------|----------|----------|----------|----------|----------|
| Number of ADT syndromic surveillance messages sent | 366,609 | 295,021 | 127,306 | 69,726 | 619,141 | 321,352 |
| Number of practices with a live syndromic surveillance Interface | 70 | 66 | 65 | 62 | 59 | 61 |

| Metric Definition | Jul 2022 | Aug 2022 | Sep 2022 | Oct 2022 | Nov 2022 | Dec 2022 |
|--|----------|----------|----------|----------|----------|----------|
| Number of ADT syndromic surveillance messages sent | 335,193 | 394,568 | 387,103 | 402,376 | 366,759 | 340,905 |
| Number of practices with a live syndromic surveillance Interface | 60 | 61 | 61 | 60 | 65 | 61 |

(f)(7) Transmission to Public Health Agencies - Health Care Surveys

The following table outlines the test plan and findings for the (f)(7) Transmission to Public Health Agencies – Health Care Surveys criterion:

| | |
|---|--|
| Testing Methodology/Method | eClinicalWorks does not support a live interface for the submission of health care surveys. eCW users generate the health care survey XML document from the EHR and manually submit it to the CDC's NHCS Secure Data Transfer portal. To test (f)(7), the tester will identify customers who have enabled the health care survey functionality within the EHR. The tester will run a query to determine the number of healthcare surveys generated on a monthly basis. |
| Metric Definition | Number of health care surveys generated. |
| Care/Practice Settings | eClinicalWorks is an ONC-certified product designed to be used in a variety of ambulatory care settings. eClinicalWorks customers serve patients in a variety of ambulatory care settings. For the purposes of real world testing, eClinicalWorks will measure data from all settings in which the EHR is used. |
| Milestones | For a detailed milestone timeline, refer to section 4. Milestones . |
| Expected Outcome | Users can generate health care surveys that can be successfully submitted to the CDC's NHCS Secure Data Transfer portal. |
| Summary of Testing Methods and Key Findings | Our initial approach was to validate a single customer on the number of health care surveys generated by the customer, but during the validation, eClinicalWorks gathered from a larger sample of reports by running SQL scripts from production unique APU IDs and gathered the transactions of successful total number of health care surveys generated. |
| Relied Upon Software (if applicable) | eClinicalWorks C-CDA Adapter |

Transaction Counts for (f)(7):

| Metric Definition | Jan 2022 | Feb 2022 | Mar 2022 | Apr 2022 | May 2022 | Jun 2022 | Jul 2022 | Aug 2022 | Sep 2022 | Oct 2022 | Nov 2022 | Dec 2022 |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Total number of APUs that generated a health care survey | 11 | 9 | 8 | 10 | 6 | 6 | 5 | 3 | 1 | 4 | 3 | 3 |

(g)(7) Application Access - Patient Selection

The following table outlines the test plan and findings for the (g)(7) Application Access – Patient Selection criterion:

| | |
|---|---|
| Testing Methodology/Method | The tester will identify customers who have activated third-party API access for their EHR. The tester will run a query to determine the number of API calls that requested a patient ID according to the (g)(7) criterion. |
| Metric Definition | Number of API requests for a patient ID |
| Care/Practice Settings | eClinicalWorks is an ONC-certified product designed to be used in a variety of ambulatory care settings. eClinicalWorks customers serve patients in a variety of ambulatory care settings. For the purposes of real world testing, eClinicalWorks will measure data from all settings in which the EHR is used. |
| Milestones | For a detailed milestone timeline, refer to section 4. Milestones . |
| Expected Outcome | Retrieval of patient IDs, which will be used in subsequent testing for (g)(8) and (g)(9). |
| Summary of Testing Methods and Key Findings | During the validation, eClinicalWorks gathered monthly sample reports by running SQL scripts from production unique APU IDs and gathered the number of practices who have activated third-party API access for their EHR and requested a patient ID through an API. |
| Relied Upon Software (if applicable) | eClinicalWorks Patient Portal, healow®, and eClinicalWorks FHIR API module |

Transaction Counts for (g)(7):

| Metric Definition | Jan 2022 | Feb 2022 | Mar 2022 | Apr 2022 | May 2022 | Jun 2022 | Jul 2022 | Aug 2022 | Sep 2022 | Oct 2022 | Nov 2022 | Dec 2022 |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Total number of API requests for all patient IDs | 461 | 453 | 384 | 332 | 533 | 435 | 523 | 435 | 664 | 752 | 593 | 840 |

(g)(8) Application Access - Data Category Request

The following table outlines the test plan and findings for the (g)(8) Application Access - Data Category Request criterion:

| | |
|----------------------------|--|
| Testing Methodology/Method | The tester will identify customers who have activated third-party API access for their EHR. The tester will run a query to determine the number of API calls that requested a data category from the Common Clinical Data Set (CCDS). |
| Metric Definition | <p>Number of times a request was made for the following data categories in the CCDS:</p> <ul style="list-style-type: none"> ▪ Demographics ▪ Smoking status ▪ Problems ▪ Medications ▪ Medication allergies ▪ Laboratory tests ▪ Laboratory values/results ▪ Vital signs ▪ Procedures ▪ Care team members ▪ Immunizations ▪ Unique device identifiers for a patient's implantable device ▪ Assessment and treatment plan ▪ Goals |

| | |
|---|---|
| | <ul style="list-style-type: none"> Health concerns |
| Care/Practice Settings | eClinicalWorks is an ONC-certified product designed to be used in a variety of ambulatory care settings. eClinicalWorks customers serve patients in a variety of ambulatory care settings. For the purposes of real world testing, eClinicalWorks will measure data from all settings in which the EHR is used. |
| Milestones | For a detailed milestone timeline, refer to section 4. Milestones . |
| Expected Outcome | Retrieval of patient data from each data category request for each customer queried. |
| Summary of Testing Methods and Key Findings | During the validation, eClinicalWorks gathered monthly sample reports by running SQL scripts from production unique APU IDs and gathered the number of API calls that requested a data category from the Common Clinical Data Set (CCDS). |
| Relied Upon Software (if applicable) | eClinicalWorks C-CDA Adapter |

Transaction Counts for (g)(8):

| Metric Definition | Jan 2022 | Feb 2022 | Mar 2022 | Apr 2022 | May 2022 | Jun 2022 | Jul 2022 | Aug 2022 | Sep 2022 | Oct 2022 | Nov 2022 | Dec 2022 |
|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Demographics | 461 | 453 | 384 | 332 | 533 | 435 | 523 | 435 | 664 | 752 | 593 | 840 |
| Smoking status | 183 | 155 | 171 | 187 | 241 | 215 | 186 | 115 | 441 | 462 | 432 | 430 |
| Problems | 206 | 94 | 156 | 217 | 314 | 141 | 154 | 95 | 411 | 415 | 414 | 423 |
| Medications | 688 | 535 | 631 | 21,436 | 34,236 | 8,076 | 7,785 | 3,281 | 1,577 | 1,725 | 2,600 | 1,834 |
| Medication allergies | 217 | 170 | 185 | 295 | 356 | 231 | 240 | 126 | 446 | 479 | 448 | 452 |
| Laboratory tests | 110 | 27 | 70 | 93 | 194 | 31 | 51 | 33 | 8 | 22 | 23 | 9 |
| Laboratory values/results | 977 | 471 | 241 | 3,318 | 4,142 | 1,380 | 4,464 | 1,237 | 1,630 | 2,225 | 891 | 2,697 |
| Vitals signs | 185 | 177 | 198 | 260 | 354 | 227 | 223 | 122 | 447 | 472 | 445 | 439 |

| Metric Definition | Jan 2022 | Feb 2022 | Mar 2022 | Apr 2022 | May 2022 | Jun 2022 | Jul 2022 | Aug 2022 | Sep 2022 | Oct 2022 | Nov 2022 | Dec 2022 |
|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Procedures | 195 | 168 | 183 | 290 | 355 | 226 | 222 | 123 | 446 | 507 | 465 | 440 |
| Care team members | 63 | 72 | 60 | 88 | 112 | 87 | 78 | 42 | 20 | 57 | 34 | 9 |
| Immunizations | 187 | 172 | 195 | 293 | 351 | 228 | 245 | 123 | 446 | 483 | 449 | 439 |
| Unique device identifiers for a patient's implantable devices | 74 | 82 | 80 | 180 | 202 | 176 | 129 | 97 | 438 | 457 | 431 | 432 |
| Assessment and treatment plan | 58 | 9 | 43 | 49 | 41 | 6 | 11 | 27 | 0 | 3 | 1 | 0 |
| Goals | 145 | 146 | 144 | 211 | 205 | 188 | 162 | 84 | 423 | 469 | 433 | 421 |
| Health concerns | 134 | 82 | 124 | 219 | 288 | 144 | 145 | 95 | 411 | 408 | 410 | 421 |

(g)(9) Application Access - All Data Request

The following table outlines the test plan and findings for the (g)(9) Application Access - All Data Request criterion:

| | |
|----------------------------|---|
| Testing Methodology/Method | The tester will identify customers who have activated third-party API access for their EHR. The tester will run a query to determine the number of API calls that requested all data categories from the Common Clinical Data Set (CCDS). |
| Metric Definition | Number of API requests for a patient's full set of CCDS data. |
| Care/Practice Settings | eClinicalWorks is an ONC-certified product designed to be used in a variety of ambulatory care settings. eClinicalWorks customers serve patients in a variety of ambulatory care settings. For the purposes of real world testing, eClinicalWorks will measure data from all settings in which the EHR is used. |
| Milestones | For a milestone timeline, refer to section 4. Milestones . |

| | |
|---|--|
| Expected Outcome | Retrieval of patient data from all data categories of the CCDS. |
| Summary of Testing Methods and Key Findings | During the validation, eClinicalWorks gathered monthly sample reports by running SQL scripts from production unique APU IDs and gathered the number of API requests for a patient's full set of CCDS data. |
| Relied Upon Software (if applicable) | eClinicalWorks Patient Portal, healow, eClinicalWorks FHIR API module, and eClinicalWorks C-CDA Adapter |

Transaction Counts for (g)(9):

| Metric Definition | Jan 2022 | Feb 2022 | Mar 2022 | Apr 2022 | May 2022 | Jun 2022 | Jul 2022 | Aug 2022 | Sept 2022 | Oct 2022 | Nov 2022 | Dec 2022 |
|--|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|
| Total number of API requests for a patient's full set of CCDS data | 63 | 20 | 66 | 70 | 102 | 17 | 35 | 32 | 16 | 22 | 13 | 15 |

(h)(1) Direct Project

The following table outlines the test plan and findings for the (h)(1) Direct Project criterion:

| | |
|----------------------------|---|
| Testing Methodology/Method | The tester will identify customers who have activated Direct Messaging within the EHR. The tester will run a query to determine the number of direct messages sent and received. |
| Metric Definition | <ul style="list-style-type: none"> Number of messages sent Number of messages received |
| Care/Practice Settings | eClinicalWorks is an ONC-certified product designed to be used in a variety of ambulatory care settings. eClinicalWorks customers serve patients in a variety of ambulatory care settings. For the purposes of real world testing, eClinicalWorks will measure data from all settings in which the EHR is used. |
| Milestones | For a detailed milestone timeline, refer to section 4. Milestones . |
| Expected Outcome | Message successfully received with evidence of a successful round trip of a direct message. |

| | |
|---|--|
| Summary of Testing Methods and Key Findings | To successfully process an inbound or outbound message, the vendor HISP Trust Anchor must be bound to the domains supported by eClinicalWorks HISP. For outbound messages, a valid clinical summary document conforming to C-CDA format must be attached to the message. During the validation, eClinicalWorks gathered monthly sample reports by running SQL scripts from production unique APU IDs and gathered the transactions of the total number of messages sent and the total number of messages received. Our initial approach was to capture the 90-day transaction count of the messages sent and received but during the validation process, we changed it to 30-day intervals (i.e., monthly) of messages sent (for the entire calendar year) including the messages sent with the attachments from the eClinicalWorks HISP database. |
| Relied Upon Software (if applicable) | eClinicalWorks HISP |

Transaction Counts for (h)(1):

| Metric Definition | Jan 2022 | Feb 2022 | Mar 2022 | Apr 2022 | May 2022 | Jun 2022 | Jul 2022 | Aug 2022 | Sept 2022 | Oct 2022 | Nov 2022 | Dec 2022 |
|-----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|
| Number of messages sent | 76,591 | 84,477 | 106,622 | 94,525 | 94,351 | 96,148 | 87,265 | 108,911 | 113,667 | 112,341 | 101,287 | 89,156 |
| Number of messages received | 819,946 | 575,866 | 602,102 | 733,508 | 801,209 | 795,355 | 796,038 | 843,247 | 821,173 | 903,294 | 880,864 | 830,288 |

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