

MOSAIQ Real World Testing Results 2024

General Information

Performance Year: 2024

Plan Report ID Number: For DRUMMOND use

Developer Name: Elekta

Product Name(s): MOSAIQ

Version Number(s): 2.86

Certified Health IT Product List (CHPL) Product Number(s):

MOSAIQ 2.86	15.04.04.1420.MOSA.02.05.1.221220
MOSAIQ 3.2.2	15.04.04.1420.MOSA.03.06.1.240531
MOSAIQ 3.2.3	15.04.04.1420.MOSA.03.07.1.250221

Developer Real World Testing Page URL: <u>https://www.elekta.com/products/oncology-informatics/mosaig-real-world-testing/</u>

Changes to Original Plan

None of note

Summary of Testing Methods and Key Findings

To conduct real world testing, Elekta utilized multiple mechanisms, including the following:

- 1. **Running Existing Reports in MOSAIQ**: *Elekta asked participating sites to run an existing report, "Promoting Interoperability Report", on their local version of MOSAIQ for all clinic providers.*
- 2. **SQL Queries**: Elekta asked participating clinics for access to their SQL servers to run multiple queries for various data extracts.
- 3. Visual Inspection: Elekta imported CCDA's with privacy flags and visually checked those users with privacy viewing capabilities were able to view a CCDA, and those without privacy viewing capabilities were not.
- 4. **Interface logs:** *Elekta inspected numerous interface logs to analyze the rate of use for various certified functionalities.*

Elekta worked with participating sites to collect the appropriate data. Elekta selected a three- month time-frame, October 1st to December 31st, 2023 for data analysis. The SQL queries, Reports, and Interface logs analyzed this three- month time-frame only to avoid any data outliers.

Care Settings(s)

Elekta conducted four sessions of real- world testing. All sessions were conducted with practices in radiation oncology and medical oncology settings. Elekta successfully tested the following versions of MOSAIQ v2.86

Metrics and Outcomes

Criterion: §170.315(h)(1) Receive health summary using DIRECT

Relied Upon Software	Secure Exchange Solutions SES Direct
Measurement/ Metric	Log files were used to track the frequency of DIRECT to receive health information
Expected Outcome(s)	Demonstrates real-world use of DIRECT messaging to receive clinical summaries sent by referring providers.
Outcomes	The average number of received clinical summaries via DIRECT Messaging was ~215 messages. This number represents the average number of clinical summaries received for all participating sites during the period of October 1st-December 31st of 2024. Elekta believes the DIRECT Messaging functionality demonstrated fully compliant real- world use.

Criterion: §170.315(b)(2) Create a single reconciled list of medications, medication allergies, or problems from received summary and active patient record

Measurement/	Reports were used to calculate the number of times that medications,
Metric	problems, and allergies were incorporated into a medical record compared
	to the number of referrals into a clinic.

Expected Outcome	It is expected that a high percentage of new patients and incoming referrals with clinical summaries are incorporated into the new patient records. The test will report the frequency of use of MOSAIQ to receive, reconcile, and incorporate clinical summaries.
Outcomes	On average, providers had reconciled lists of medications, medication allergies, or problems from received summary and active patient records zero times. Because we did not have any active users of this functionality, we validated this functionality internally using three test patients in Elekta's test environment. All three tests were successful with no errors.
Challenges Encountered (if applicable)	Elekta utilized the Promoting Interoperability measure report within MOSAIQ. Providers were not asked during which 90- day period they collected their Promoting Interoperability data. Elekta assumes the 90- day period selected for all providers to run the report, October 1 st – December 31st, was not the same period providers used in submission of their PI data to CMS. Alternatively, the providers surveyed may typically not use MOSAIQ for their referral workflow and may instead lean on additional software. Given this, Elekta believes the lack of data or reconciliation efforts is not representative of the reliability of the functionality but instead the use level.

Criterion: §170.315(e)(1) View, download and transmit to a third party

Relied Upon Software	Medfusion by Medfusion, Inc.
Measurement/ Metric	SQL Queries were used to track the frequency of patient views, downloads, and transmissions to third parties
Expected Outcome	Number of patient views, downloads, and transmissions
Outcomes	 Elekta calculated the average rates, given the available sites, for view, download, and transmit to a third party during the period of October 1st to December 31st. The averages for the participating sites were as follows View: ~ 523 Download: ~ 620 Transmit: ~ 6

Criterion: §170.315(b)(3) Electronic Prescribing

Relied Upon	First DataBank Medknowledge Framework 4.2
Software	Surescripts ePrescribing
	Dr. First EPCS Gold
Measurement/	Reports were used to determine the frequency of ePrescribing messages and
Metric	the number of errors during transmission.
Expected	Clinicians will be able to manage outpatient prescriptions with local
Outcome	pharmacies with few errors. Less than 1% of errors are expected.
Outcomes	The e-prescription rate of success for transmission was 100%. On average providers transmitted ~1923 e-prescriptions, for which there were no errors. Therefore, the rate of failure of transmission was 0.

Criterion: §170.315(f)(1) Transmission to Immunization Registries

Measurement/ Metric	SQL queries were used to determine the use of the immunization interface message transmissions.
Expected Outcome	It is expected that clinics can transmit their immunization information successfully. Error rates will be tracked.

Outcomes	Providers on average did not utilize the immunization interface. The average number of immunizations sent was 0.
Challenges	Elekta believes that the immunization interface is not being used because
Encountered (if applicable)	Elekta users are predominantly focused on oncology care and do not typically send immunizations. Elekta validated successfully this functionality to send immunization for five different patients in a test environment. This test was validated once as part of Elekta's formal validation process during release. There were no errors reported. No additional validation tests were executed. Elekta believes the lack of data is not representative of the reliability of the functionality but instead the use level.

Criterion: §170.315(g)(7) Application Access- Patient Selection

Measurement/	Interface logs were reviewed to determine the number of API applications
Metric	registered and the number of patient selection API transactions over time.
Expected	API applications will be able to receive properly-authorized patient ID's.
Outcome	
Outcomes	Currently, there are no applications utilizing Elekta's available FHIR API.
	Therefore, there have been no applications able to receive properly authorized patient ID's.
Challenges	While Elekta's FHIR API is available for use to any vendor, there has been little
Encountered (if	interest from application developers. Elekta believes this to be because Elekta
applicable)	is an oncology specific EHR and does not have a large margin of market share. To date, no applications have progressed beyond Elekta's sandbox
	environment. However, Elekta verified this functionality as part of internal
	testing against one sample API application. This test was validated once as part
	of Elekta's formal validation process during release. There were no errors
	reported. No additional validation tests were executed. Elekta believes that
	while the API is not being used, it is still functioning compliantly.

Criterion: §170.315(g)(10) Standardized API for patient and population services

Relied Upon	Firely
Software	
Measurement/	Interface logs were reviewed to measure the volume of patient laboratory
Metric	results retrievals. Metric to be used is Lab Requests / Lab Sends
Expected	The patient lab results will be retrieved in full and without error.
Outcome	

Outcomes	No patient lab results were retrieved. Currently there are no applications utilizing our available API. Therefore, there have been no data calls to Elekta's API. Test data was used 15 requests / 15 sends.
Challenges Encountered (if applicable)	As mentioned above, there are currently no applications making use of Elekta's FHIR API. Elekta believes this is because Elekta is an oncology specific EHR and does not have a large margin of market share. Elekta believes that while the API is not being used, it is still functioning compliantly. Test data was used to verify functionality 15 requests / 15 sends.

Criterion: §170.315(h)(1) Send health summary using DIRECT

Relied Upon Software	Secure Exchange Solutions SES Direct
Measurement/ Metric	Log files were used to track the frequency of DIRECT to send health information.
Expected Outcome	It is expected that health care providers will receive clinical summaries using the DIRECT protocol.
Outcomes	The average number of clinical summaries sent via DIRECT Messaging was 11 messages. This number represents the average number of clinical summaries sent for all participating sites during the period of October 1st-December 31st of 2023. Elekta believes health care providers are compliantly receiving clinical
	summaries using the DIRECT protocol.

Criterion: §170.315(b)(1) Transitions of Care

Measurement/ Metric	SQL queries were used to determine the number of clinical summaries sent to providers.
Expected Outcome	It is expected that a high percentage of oncology treatment results in clinical summaries sent to referring providers.
Outcomes	Elekta utilized a SQL query and looked at data from October 1 st – December 31st. During this three- month period, an average of 223 CCDAs were sent to a direct mail address. Elekta believes MOSAIQ is functioning compliantly given the general use of the functionality.

Relied Upon Software	Firely
Measurement/ Metric	Logs were used to measure the volume of all data requests
Expected	API applications will be able to request and receive patient's properly
Outcome	authorized clinical summary data. Error rates will be tracked.
Outcomes	Currently, Elekta has no applications utilizing the available API. Therefore, no API applications were able to request and receive patient's properly authorized clinical summary data.
Challenges Encountered (if applicable)	As mentioned above, there are currently no applications making use of Elekta's API. Elekta believes this is because Elekta is an oncology specific EHR and does not have a large margin of market share. Elekta validated this functionality for three patients as part of internal testing. This test was validated once as part of Elekta's formal validation process during release. There were no errors reported. No additional validation tests were executed. Elekta believes that while the API is not being used, it is still functioning compliantly.

Criterion: §170.315(g)(9) Application Access- all data request

Criterion: §170.315(b)(10) Electronic Health Information export

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Measurement/	Interface logs were used to generate use metrics for EHI export; Exports sent at		
Metric	tested sites (numerator) / Total exports		
Expected	EHI export data will be displayed concurrent with real world use.		
Outcome			
Outcomes	For all participating sites, there was not a use of patient exported EHI.		
	For this reason, test data was used in a real-world environment to verify		
	functionality. Combined totals of sends were 15 sends out of / 15 EHI		
	requests		
Outcomes	Test data in a real word environment showed the ability to export EHI		
	without issue.		
Challenges			
Encountered (if			
applicable)			
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Key Milestones

Key Milestone	Care Setting	Date/ Timeframe
Finalization of SQL Queries for Real World Testing		June 1, 2024
Real World Testing Conducted with Site #1	Radiation Oncology and Medical Oncology	January 1, 2025
Real World Testing Conducted with Site #2	Radiation Oncology and Medical Oncology	January 3, 2025
Real World Testing Conducted with Site #3	Radiation Oncology and Medical Oncology	January 6, 2025
Real World Testing Conducted with Site #4	Radiation Oncology and Medical Oncology	Jan 30, 2025
Final Results collected and aggregated		February 1, 2025

Attestation

The Real World Testing Results above are complete with all required elements. All information included in these results is up to date and fully addresses the health IT developer's Real World Testing requirements.

Authorized Representative: Ken Hotz

Authorized Representative Email: <u>ken.hotz@elekta.com</u>

Authorized Representative Signature: Ken Hotz

Date: January 30, 2025