Plan Report ID Number: FOR Drummond Use

Developer Name	Elekta Inc.
Product Name	MOSAIQ
Version Numbers	2.86, 3.2.2
Certified Health IT	
Product list (CHPL) IDs	
FIGURE IIST (CHFE) IDS	
MOSAIQ 2.86	15.04.04.1420.MOSA.02.05.1.221220
MOSAIQ 3.2.2 MOSIQ	15.04.04.1420.MOSA.03.06.1.240531

Developer Real World

Testing page: https://www.elekta.com/products/oncology-informatics/mosaiq-real-world-testing/

Justification for Real World Testing Approach

MOSAIQ is a certified health information system that manages the treatment of cancer patients in both the medical oncology and radiation oncology healthcare setting. While managing cancer treatment, patient documentation is coordinated between healthcare providers, patients, and ancillary services within and outside the healthcare organization. The shared documentation includes transition of care documents, electronic prescriptions, healthcare summaries, immunization records and information provided to patients through a portal.

This test plan is designed to test the functionality certified by the ONC Health IT Certification program as it is used in the real world. The following criteria is included in this test plan:

§ 170.315(b)(1) Transitions of care
§ 170.315(b)(2) Clinical information reconciliation and incorporation
§ 170.315(b)(3) Electronic prescribing
§ 170.315(b)(10) Electronic Health Information export
§ 170.315(e)(1) View, download, and transmit to 3rd party
§ 170.315(f)(1) Transmission to immunization registries

§ 170.315(g)(7) Application access—patient selection

- § 170.315(g)(9) Application access—all data request
- § 170.315(g)(10) Standardized API for patient and population services
- § 170.315(h)(1) Direct Project

Overall Approach

The test plan consists of 4 user stories that reflect the general workflow of MOSAIQ users as it pertains to the certified criteria and standard data. Within each user story there are one or more certification criteria that are used to share data among providers, patients and services that will be tested and measured for use and success.

Several measurements will be taken for each user story which demonstrate the real-world use of the criteria.

The user stories include:

- 1. Patient consultation visit
- 2. Patient treatment
- 3. Treatment complete
- 4. Patient Electronic Health Information (EHI) export

The goal of this approach is to demonstrate how the interoperability and conformance capabilities of MOSAIQ meet the needs of clinicians and patients in use in the real world.

Testing grid

Criteria	User story	Care settings	Versions
§ 170.315(b)(1) Transitions of care	#3	Radiation Oncology Medical Oncology	MOSAIQ 2.86 MOSAIQ 3.2.2
§ 170.315(b)(2) Clinical information reconciliation and incorporation	#1	Radiation Oncology Medical Oncology	MOSAIQ 2.86 MOSAIQ 3.2.2
§ 170.315(b)(3) Electronic prescribing	#2	Radiation Oncology Medical Oncology	MOSAIQ 2.86 MOSAIQ 3.2.2
§ 170.315(b)(10) Electronic Health Information export	#4	Radiation Oncology	MOSAIQ 2.86 MOSAIQ 3.2.2

§ 170.315(e)(1) View, download, and transmit to 3rd party	#1	Radiation Oncology Medical Oncology	MOSAIQ 2.86 MOSAIQ 3.2.2
§ 170.315(f)(1) Transmission to immunization registries	#2	Radiation Oncology Medical Oncology	MOSAIQ 2.86 MOSAIQ 3.2.2
§ 170.315(g)(7) Application access— patient selection	#2	Radiation Oncology Medical Oncology	MOSAIQ 2.86 MOSAIQ 3.2.2
§ 170.315(g)(9) Application access— all data request	#3	Radiation Oncology Medical Oncology	MOSAIQ 2.86 MOSAIQ 3.2.2
§ 170.315(g)(10) Standardized API for patient and population services	#2	Radiation Oncology Medical Oncology	MOSAIQ 2.86 MOSAIQ 3.2.2
§ 170.315(h)(1) Direct Project	#1 #3	Radiation Oncology Medical Oncology	MOSAIQ 2.86 MOSAIQ 3.2.2

Care Settings

Elekta markets its products in the Radiation Oncology and Medical Oncology care settings. Each user story in the test plan is applicable to both care settings.

Milestones

Milestone	Care Setting	Timeframe
Development of candidate list of providers to	Radiation Oncology	February, 2025
assist with Real World Testing	Medical Oncology	
Development of software and/or SQL queries to	Radiation Oncology	March, 2025
be used for data analysis	Medical Oncology	
Confirm participation of providers to assist with	Radiation Oncology	April, 2025
Real World Testing	Medical Oncology	
Begin collection of information as laid out by	Radiation Oncology	June, 2025
plan	Medical Oncology	
Completion of collection of information	Radiation Oncology	January 2026
	Medical Oncology	
Analysis and report creation	Radiation Oncology	January-February, 2026
	Medical Oncology	
Submit Real World Testing report to ACB per	Radiation Oncology	February 15, 2026
instructions	Medical Oncology	

User Story #1. Patient consultation visit

A patient arrives for a consultation visit where a decision to treat is made by the healthcare staff and patient. A patient summary is received and incorporated from the referring provider, patient information is collected from the patient and diagnostic services and orders are entered to collect additional diagnostics and prepare for treatment, either chemotherapy and/or radiation. The patient establishes a portal account and views their clinical summary on the patient portal.

User story 1a Privacy indicator

This is a variation of user story 1 where the patient is designated as a private/VIP patient by the referring provider restricting the user's ability to see the clinical summary.

Justification for Real World Testing Approach

This user story is a typical workflow for the incorporation of a new patient, designating a specific cancer diagnosis and arrival at a decision between the physician and patient to commence treatment. Within this workflow there are several criteria that can demonstrate real-world use simultaneously, namely \$170.315(h)(1) Direct Project to receive the clinical summary, \$170.315(b)(2) Clinical information reconciliation and incorporation to incorporate the received information, \$170.315 \$170.315(e)(1)

Standards and Updates

Version	CHPL ID	Standards
MOSAIQ 2.86	15.04.04.1420.MOSA.02.05.1.221220	All standards versions are those specified in
		the United States Core Data for
MOSAIQ 3.2.2	15.04.04.1420.MOSA.03.06.1.240531	Interoperability (USCDI)
		Interoperability Standards Advisory (ISA)
		(healthit.gov)

Overall Expected outcomes

Real World Testing will show that MOSAIQ is interoperable as specified by §170.315(h)(1) using DIRECT to receive health care summaries.

Real World Testing will show that MOSAIQ can be used to receive, reconcile, and incorporate health care summaries as specified by §170.315(b)(2).

Real World testing will show that a patient can view, download, and transmit their clinical summary through their portal as specified by §170.315(e)(1).

Measures User Story #1

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§170.315(h)(1)	Receive health summary using DIRECT
Methodology	Log files will be used to track the frequency of DIRECT to receive health information.
Justification	Demonstrates real-world use of DIRECT messaging to receive clinical summaries sent by referring providers
Expected outcome(s)	It is expected that health care providers will receive clinical summaries using the DIRECT protocol.

§170.315(b)(2)	Create a single reconciled list of medications, medication allergies, or problems from received summary and active patient record
Methodology	Reports will be used to calculate the number of times that medications, problems and allergies are incorporated into a medical record compared to the number of referrals to a clinic.
Justification	Demonstrates real-world use of DIRECT messaging to receive, incorporate, and reconcile clinical summaries sent by referring providers
Expected outcome(s)	It is expected that a high percentage of new patients and incoming referrals with clinical summaries will be incorporated into the new patient records. The test will report the frequency of use of MOSAIQ to receive, reconcile, and incorporate clinical summaries.

§170.315(e)(1)	View, download and transmit to a third party
Methodology	SQL queries will be run to track the frequency of patient views, downloads and transmissions to third parties
Justification	Demonstrates real-world patient use and frequency of the patient portal to view, download and/or transmit their health information.
Expected outcome(s)	Numbers of patient views, downloads, and transmissions will demonstrate functionality.

User Story #2. Patient treatment

The patient arrives for radiation simulation and setup (radiation care setting) and receives an immunization shot. Out-patient medications are ePrescribed to mitigate possible treatment side effects and appointments are scheduled for multiple instances of treatment and in-treatment consultations. Patient is an oncology patient and has a competing diagnosis of silicosis. On treatment days, vital signs, lab tests and other information are captured, and treatment is delivered. During treatment, the patient views their current lab tests via an API application. Prior to physician-patient visits during treatment, the physician views lab results via an API application.

Justification for Real World Testing Approach

This user story is a typical workflow for the setup and process for ongoing cancer treatment. In this use case the patient is administered an immunization in one visit which is transmitted to public health demonstrating \$170.315(f)(1) Transmission to immunization registries and an order is sent to a local pharmacy demonstrating \$170.315(b)(3) Electronic prescribing. Additionally, a patient uses an API application to retrieve their clinical data using \$170.315(g)(7) Application access-patient selection and \$170.315(g)(10) Standardized API for patient and population services. The test metrics describe the real-world use of these interoperability capabilities.

Standards and Updates

Version	CHPL ID	Standards
MOSAIQ 2.86	15.04.04.1420.MOSA.02.05.1.221220	All standards versions are those specified
		in the United States Core Data for
MOSAIQ 3.2.2	15.04.04.1420.MOSA.03.06.1.240531	Interoperability (USCDI) Interoperability
		<u>Standards</u>
		Advisory (ISA) (healthit.gov)

Overall Expected outcomes

Real World testing will show that MOSAIQ will successfully transmit electronic prescriptions as specified in §170.315(b)(3). Real World testing will show that MOSAIQ will successfully collect immunization information and transmit the data to immunization registries as specified in §170.315(f)(1). Real World testing will show that the MOSAIQ Patient Access API can receive search parameters and identify a patient ID from an API application as specified in

§170.315(g)(7) and can receive search parameters for a specific category of patient data and return the data as specified in §170.315(g)(8).

Measures – User Story #2

§170.315(b)(3)	Electronic prescribing
Methodology	SQL queries will be run to determine the frequency of ePrescribing messages and the number of errors during transmission
Justification	Demonstrates the real-world use of ePrescribing to manage patient prescriptions with outpatient pharmacies.
Expected outcome(s)	Clinicians will be able to manage outpatient prescriptions with local pharmacies with few errors. Less than 1% of errors are expected.

§170.315(f)(1)	Transmission to immunization registries
Methodology	Interface logs will be scanned and de-identified to determine the use of the immunization interface message transmissions.
Justification	The test will illustrate the real-world use of immunization data
	transmission to public health registries.
Expected outcome(s)	It is expected that clinics are able to transmit their immunization information successfully. Error rates will be tracked. Any instances of usage will be supplemented with internal synthetic testing.

§170.315(g)(7)	Application access— patient selection
Methodology	Reports will be reviewed to determine the number of API applications Registered, and API calls received.
Justification	This test will demonstrate the real-world use of API applications to retrieve clinical information.
Expected outcome(s)	API applications are registered and able to retrieve clinical information. There has been no usage of the FHIR connection by any external sites; Any instances of usage will be supplemented with synthetic testing.

§170.315(g)(10)	Standardized API for patient and population services
Methodology	Interface logs will be reviewed to measure the volume of patient and provider laboratory results retrievals.
Justification	This will test the use of an API application to access patient data for a patient residing in a real-world database.
Expected outcome(s)	The total number of API calls received across the API will be reviewed. There has been no use of the API connection. Any instances of usage will be supplemented with internal synthetic testing.

User Story #3. Treatment complete

After the final treatment, the physician documents a treatment summary and sends the summary via DIRECT to the referring physician. The referring physician reviews and incorporates the clinical summary.

User Story 3a Privacy indicator

This is a variation of user story 3 where the clinical summary is designated as restricted to users with high privacy user rights.

Justification for Real World Testing Approach

This user story is a typical workflow for the completion of a cancer treatment episode. The clinician summarizes the treatment episode and a clinical summary is sent to the original referring provider demonstrating \$170.315(b)(1) Transitions of care and \$170.315(h)(1) Send health summary using DIRECT. In a variation of that clinical summary, the document is sent with a privacy indicator demonstrating \$170.315(g)(9) Application access all data request.

Standards and Updates

Version	CHPL ID	Standards
MOSAIQ 2.86	15.04.04.1420.MOSA.02.05.1.221220	All standards versions are those
		specified in the <u>United</u> <u>States Core</u>
MOSAIQ 3.2.2	15.04.04.1420.MOSA.03.06.1.240531	Data for Interoperability (USCDI)
		Interoperability Standards Advisory (ISA)
		(healthit.gov)

Overall Expected outcomes

Real-world interoperability is displayed using DIRECT to send the results of healthcare treatment to a referring provider as specified by §170.315(b)(1) Transitions of care.

Real World testing will show that the MOSAIQ Patient Access API can receive a request for a patient clinical summary and provide a complete summary as specified by §170.315(g)(9) Application access all data request.

Measures – User Story #3

§170.315(h)(1)	Send health summary using DIRECT
Methodology	Log files will be used to track the frequency of DIRECT to send health information.
Justification	Demonstrates real-world use of DIRECT messaging to send clinical summaries to referring providers
Expected outcome(s)	It is expected that health care providers will receive clinical summaries using the DIRECT protocol.

§170.315(b)(1)	Transitions of care
Methodology	SQL queries will be used to determine the number of clinical summaries sent to providers.
Justification	Demonstrates the real-world use of DIRECT interoperability to send health information upon completion of oncology treatment.
Expected outcome(s)	It is expected that a high percentage of oncology treatments result in clinical summaries sent to referring providers.

§170.315(g)(9)	Application access— all data request
Methodology	Logs will be used to measure the volume of All Data Requests
Justification	Demonstrates the real-world frequency of this particular API data request
Expected outcome(s)	API applications will be able to request and receive patient's authorized clinical summary data.

User Story #4 Patient EHI Export

An external system is brought online with need to populate MOSAIQ patients with EHI. The external system is provided with EHI for all MOSAIQ patients. A request for a patient's EHI is received. A user performs the EHI export, collects the data and makes it available to the requester.

Justification for Real World Testing Approach

This user story is an imagined need to make use of a multiple patient clinical summary export as described in §170.315(b)(10) Electronic Health Information export.

Standards and Updates

Version	CHPL ID	Standards
MOSAIQ 2.86	15.04.04.1420.MOSA.02.05.1.221220	All standards versions are those specified
		in the United States Core Data for
MOSAIQ 3.2.2	15.04.04.1420.MOSA.03.06.1.240531	Interoperability (USCDI) Interoperability
		<u>Standards</u>
		Advisory (ISA) (healthit.gov)

Overall Expected outcomes

Real World Testing will show that MOSAIQ is interoperable as specified by §170.315(b)(10) Electronic Health Information export.

Measures – User Story 4

§170.315(b)(10)	EHI Export
Methodology	Interface logs will be used to measure the number of Patient EHI Export
	instances.
Justification	Demonstrates the real world use of the EHI Export function.
Expected outcome(s)	Users will be able to export patient EHI for use by external systems.

Attestation

This Real World Testing plan is complete with all required elements, including measures that address all certification criteria and care settings. All information in the plan is up to date and fully addresses the health IT developer's Real World Testing requirements.

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