

REAL WORLD TESTING PLAN

GENERAL INFORMATION

Plan Report ID Number: [For ONC-Authorized Certification Body use only]

Developer Name: WestCare Foundation, Inc.

Product Name(s): Clinical Data System

Version Number(s): 1

Certified Health IT Product List (CHPL) ID(s): 15.04.04.2649.Clin.01.00.0.191230

Developer Real World Testing Plan Page URL: <https://westcare.com/electronic-health-record/>

Certification Criteria Addressed: 170.315 (b) (10) Electronic Health Information export

JUSTIFICATION FOR REAL WORLD TESTING APPROACH

1. Objectives

- Primary Objective: Validate that the health IT system can accurately, securely, and completely export electronic health information (EHI) in accordance with the ONC criteria 170.315(b)(10).
- Secondary Objectives:
 - Ensure the system performs EHI export for individual and population-level exports.
 - Test for real-world use cases, including various patient populations, data types, and export sizes.
 - Confirm that exported data is structured in a way that complies with the applicable standards for EHI.

2. Test Participants

- Roles:
 - System Admin: Sets up the testing environment and manages permissions.
 - Health IT Developer: Assists with technical configurations and code fixes.
 - Healthcare Providers/Users: Perform data export to ensure the process aligns with real-world clinical workflows.
 - Patients: May participate by requesting data exports for their personal records.

3. Test Environment Setup

- Health IT System: Configure the production system or a clone of the system that mirrors the live environment.
- Test Data: Use de-identified patient records that reflect a range of scenarios, such as patients with chronic conditions, those using multiple services, and varying levels of interaction with the system.
- External Systems: Set up testing systems to simulate external third-party software or systems that will receive exported EHI data (e.g., another EHR system or personal health record system).

4. Scenarios for Testing

Individual Patient Export

- Test Case 1: Export the EHI for a single patient and confirm that the exported data includes all required elements (e.g., case notes, assessments, treatment plans).
- Test Case 2: Export data for a patient with complex clinical records (e.g., multiple visits, several treatments).
 - Expected Result: All relevant EHI is exported in the correct format and without data loss.

Population-Level Export

- Test Case 3: Export EHI for a population of patients over a defined period (e.g., all patients seen within the last year).

Data Integrity Testing

- Test Case 4: After export, validate the integrity of the data by comparing it against the source EHR data.
 - Expected Result: Exported data should match exactly with the source data, with no missing or altered information.

Security and Compliance

- Test Case 5: Simulate a patient request for their EHI export and ensure proper authentication and authorization processes are followed before allowing the export.
 - Expected Result: Data is only exported after proper patient consent or authorization has been verified.

5. Data Validation

- Format Validation: Validate the exported data's format against the provided XML schema.

6. Success Criteria

- Data Export: Successful completion of all test cases without errors, including the ability to export individual and population-level data.
- Performance Metrics: Ensure the system can handle both small and large exports within acceptable time limits, with no significant impact on system performance.
- Data Integrity: No discrepancies between the original EHR data and the exported data.
- Security: All exports follow strict security protocols for authentication and patient consent.

7. Reporting

- Issue Tracking: Log and categorize any issues encountered during testing (e.g., data mismatches, performance problems, or security concerns).
- Test Results Summary: Provide a detailed report of the testing outcomes, including test case pass/fail statuses, performance benchmarks, and any noted deficiencies.

ATTESTATION

The Real World Testing plan must include the following attestation signed by the health IT developer authorized representative. Note: The plan must be approved by a health IT developer authorized representative capable of binding the health IT developer for execution of the plan and include the representative's contact information. This Real World Testing plan is complete with all required elements, including measures that address all certification criteria and care settings. All information in this plan is up to date and fully addresses the health IT developer's Real World Testing requirements.

Authorized Representative Name: Diane Ludens

Authorized Representative Email: diane.ludens@westcare.com

Authorized Representative Phone: 702-385-2090

Authorized Representative Signature: *Diane Ludens*

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