Real-World Testing (RWT) Plan for CY2025

- **Developer Name**: Mobile MediClaim, Inc.
- **Developer UID**: 10358
- **Product Name and Version**: Mobile MediClaim 3.5
- **CHPL ID**: 15.07.09.3088.MO03.03.01.1.230120
- **RWT Page URL**: https://mobilemediclaim.com/licenses-certifications/

Justification for Overall Real-World Testing Approach

The Real-World Testing approach for ConnectEHR v2025 ensures the software performs effectively in ambulatory care settings and complies with ONC certification requirements for criterion (b)(10) - EHI Export. By conducting tests within this environment, the plan simulates real-world healthcare workflows, such as single-patient and bulk data exports, validating ConnectEHR's ability to perform critical data management tasks accurately and securely. This method aligns with ConnectEHR's primary function in ambulatory care, focusing on EHI export functionality for healthcare providers and administrators who regularly manage patient data exports.

This testing approach reflects the standards and requirements of the ONC Health IT Certification Program, ensuring ConnectEHR operates in compliance with regulatory requirements while providing a reliable, secure, and usable system for end-users.

Standards Updates

Mobile MediClaim has not leveraged the SVAP flexibility during CY2024.

Care Settings

Care Settings for Testing

Real-World Testing will be conducted in the following care setting:

- **Ambulatory Care Setting**

Justification for Selection

Ambulatory care settings were selected as they represent a high volume of patient interactions and the most relevant environment for testing EHI export functionalities (criterion (b)(10)). In this setting, patient data is frequently exported in bulk and as individual patient records, making it an ideal environment for assessing the product's performance in real-world scenarios.

Real-World Testing for 170.315(b)(10): EHI Export

Care Setting for Testing

- **Ambulatory Care Setting**: Testing will be conducted with healthcare providers and administrative staff responsible for managing patient data exports in ambulatory environments.

Relied Upon Software

- **FHIR R4 API**: Supports creating single-patient FHIR resource DocumentReference and bulk export of patient populations.
- **HL7 C-CDA 2.1**: Used for XML-based export of patient data.
- **ConnectEHR UI**: Facilitates the scheduling and execution of data exports in C-CDA format.

Testing Methodology

Scenario 1: Single-Patient Data Export Testing

- **Methodology**: Use the ConnectEHR UI to perform a single-patient data export in C-CDA 2.1 XML format. The exported data will then be validated to ensure that it meets predefined standards for data accuracy and completeness.
- **Expected Outcome**: The single-patient export operation should complete successfully, generating a C-CDA file that accurately reflects the patient's data and adheres to structural and format requirements.

Scenario 2: Bulk Data Export Testing

- **Methodology**: Use the ConnectEHR UI to perform a bulk data export for a specified patient population in FHIR R4 format. The test will evaluate the system's ability to handle large data volumes while maintaining the integrity and completeness of each exported file.
- **Expected Outcome**: The bulk export should execute efficiently without performance issues, producing accurate and complete patient data in FHIR R4 format, compliant with the expected data integrity standards.

Justification for Selected Metrics

- **Scenario 1**: Exporting data for a single patient in C-CDA 2.1 format to verify accuracy and completeness.
    - This scenario tests routine, individual patient data exports to ensure the system functions as expected for day-to-day operations.
- **Scenario 2**: Bulk export of patient data for a population in FHIR R4 format to assess system performance under higher workloads.
    - Bulk data export is essential for larger-scale operations such as data transfers between healthcare providers and health information exchanges.

These metrics are designed to evaluate the product's efficiency, scalability, and reliability in real-world clinical settings.

Key Milestones

Milestone 1: Initial Setup and Configuration

- **Care Setting**: Ambulatory Care
- **Date/Timeframe**: January 2025
- **Description**: Set up the testing environment and configure the system for data exports in FHIR R4 and C-CDA 2.1 formats.

Milestone 2: Single-Patient Data Export Testing

- **Care Setting**: Ambulatory Care
- **Date/Timeframe**: March 2025
- **Description**: Test single-patient export functionality to ensure accurate and secure data transfer.

Milestone 3: Bulk Data Export Testing

- **Care Setting**: Ambulatory Care
- **Date/Timeframe**: June 2025
- **Description**: Conduct bulk data export tests for patient populations in FHIR R4 format to verify performance under high workloads.

Milestone 4: Final Review and Documentation

- **Care Setting**: Ambulatory Care
- **Date/Timeframe**: August 2025
- **Description**: Complete the final review of all testing outcomes and prepare documentation for submission.

Attestation

I, Mohit Kaushik, attest that the Real-World Testing Plan for Mobile MediClaim's product is complete, accurate, and has been reviewed for submission in accordance with the ONC's requirements.

- **Name**: Mohit Kaushik
- **Title**: Developer 1
- **Email**: base.knowledgesoft@gmail.com
- **Phone**: +91 9971546692
- **Signature**: Mohit Kaushik
- **Date**: November 14, 2024