#### **General Information**

**Developer Name:** PCIS GOLD **Product Name:** PCIS GOLD EHR **Version Number:** Version 2.6

**Certified Health IT:** 

**Product CHPL Listing ID:** 15.04.04.2126.PCIS.26.02.1.221222

Developer Real World Testing Page URL: www.pcisgold.com/real-world-testing

#### JUSTIFICATION FOR REAL WORLD TESTING APPROACH

Real World Testing has been defined as a "process by which Health IT Developers demonstrate interoperability and functionality of their Certified Health IT in real world settings and scenarios, rather than in a controlled test environment with an ONC-Authorized Testing Lab (ONC-ATL)." In this document, PCIS outlines our approach to meet the criteria of Real World Testing.

We at PCIS have developed a testing plan to demonstrate the interoperability and functionality of our certified electronic health record (EHR) in the ambulatory setting in the Real World. The following strategy ensures functional transparency and accuracy:

- Our EHR is deployed in a client server-based environment.
- All testing events occur with actual clinical customers in their native environments.
- Users include medical providers, clinical employees, and clerical staff members

#### **STANDARDS UPDATES**

Standard (and version).	USCDI Version 1
Updated certification criteria and associated	Not applicable
product.	
Method used for standard update.	Not applicable
Date of ONC ACB notification.	Not applicable
Date of customer notification (SVAP only).	Not applicable
Conformance measure.	Not applicable
USCDI updated certification criteria (and	USCDI Version 1
USCDI version).	

# **Care Settings**

Care Setting	Care Setting Justification
Ambulatory Clinics	Outpatient ambulatory setting – The target market of the PCISGOLD EHR is both
	single and multi-specialty outpatient ambulatory clinics. All testing for the
	associated certified criteria will be conducted at client sites in a real world
	environment.

# **Relied Upon Software**

The certified criteria listed below will utilize the trusted business partner(s) as relied upon software to accomplish the functionality as required for compliance purposes:

Product	Criteria / Relied Upon Software
PCISGOLD EHR	170.315(b)(1) - Transitions of care / The PCISGOLD EHR relies upon Updox
Version 2.6	Direct.
	170.315(b)(3) – Electronic Prescribing / The PCISGOLD EHR electronic
	prescribing application is powered by NewCrop RX.

#### **MEASURES USED IN OVERALL APPROACH**

#### **Description of the Measurement**

The following document outlines the measures that best demonstrate conformance to the certification criteria.

#### Care Coordination

## §170.315(b)(1) – Transitions of care

- Users will send and receive the CCDA to and from outside certified EHR systems.
- Users will send and receive transition of care summaries using the Direct protocols.
- Users may limit the data displayed for each CCDA received as required for certification.
- The CCDA will conform to the required standards of the 2015 Cures Update and include all required elements.
- The referring provider contact information is included in the CCDA.
- The reason for the referral is included in the CCDA.
- The CCDA will have pertinent patient identification for appropriate patient matching.
- The transmission logs will be checked for accuracy.

### §170.315(b)(2) – Clinical information reconciliation and incorporation

- Users incorporate and reconcile the CCDA.
- The CCDA is received and matched to the correct patient.
- Users are able to view the data in the PCIS EHR. This includes the reconciliation of the CCDA, including the medication, allergy and problem lists.
- Users are able to create a CCDA that includes the reconciled data

### §170.315(b)(3) – Electronic prescribing

- The PCIS EHR allows the user to create new RX (NEWRX).
- The PCIS EHR allows the user to change prescriptions (RXCHG, CHGRES).
- The system allows the associated diagnosis/reason coded as an ICD-10 code to be sent and received.
- Oral medications are submitted in metric units.
- Leading zeros are present before the decimal. No trailing zeros are present.
- Users can request and receive a patient's medication history.

#### §170.315(b)(10) – Electronic Health Information Report

- Users can timely create and export EHI data files for a single patient.
- Users can timely create and export EHI data files for patient population.
- The export files that are created are in an electronic and computable format.
- The export files include the publicly accessible hyperlink to the data file format.

## **Clinical Quality Measures**

#### §170.315(c)(1) – Record and export

- Users will select CQMs and export the QRDA 1
- For each CQM that providers will attest, the system will have the ability to record all of the data required to calculate results.
- Users can export a data file on demand for one or multiple patients.

• The exported data file is formatted in accordance with the HL7 QRDA Category I specifications.

#### $\S170.315(c)(2)$ – Import and calculate

- Users import the QRDA received from an external system and calculate the measure.
- Users can import a data file formatted in accordance with HL7 QRDA Category I Release 3 for one or multiple patients.

# §170.315(c)(3) – Report

- Users will export QRDA 3 files for all measures that undergo reporting.
- Users can create a data file for the transmission of CQM data in QRDA Category 1 and Category 3 formats.
- The Category 1 and Category 3 reports will successfully pass the Cypress test tool validation for CMS submission.

#### Patient Engagement

§170.315(e)(1) – View, download, and transmit to 3<sup>rd</sup> party

- CCDAs are available on the PCIS Patient Portal for patients or an authorized representative to view, download, and transmit to a 3<sup>rd</sup> party.
- Patients and their authorized representatives are able to view the following:
  - a) Health Record data as defined by the Common Clinical Data Set.
  - b) The provider's name and office contact information.
  - c) Laboratory test report(s).
- C-CDA files must successfully validate with the C-CDA message validator.

#### Public Health

§170.315(f)(1) – Transmission to immunization registries

- Users will send immunization records electronically, as supported, to a state registry.
- The immunization information will be formatted in HL7 2.5.1 standard, using CVX codes for historical vaccines and NDC codes for newly administered vaccines.
- Users will request a patient's immunization history and forecast from the immunization registry.

§170.315(f)(2) – Transmission to public health agencies – syndromic surveillance

- Users will record syndromic surveillance content and generate the HL7 message.
- The message will conform to the HL7 v2.5.1 PHIN Messaging Guide and support ICD-10 and SNOMED CT.

#### §170.315(f)(4) – Transmission to cancer registries

- A PCIS user will record cancer information and generate a cancer case document.
- The cancer case document will be generated according to the HL7 message specification and support SNOMED CT and LOINC codes for cancer case information.

### **Application Programming Interfaces**

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

• The PCIS EHR API will receive a request with enough information to uniquely identify a patient. This will return an ID that can be used to subsequently execute requests for that patient's data.

§170.315(g)(9) – Application access – all data request

- The PCIS EHR API will respond to requests for all CCDA patient summary records that include all the data categories specified in the Common Clinical Data Set.
- The requests may include a date range.

§170.315(g)(10) – Standardized API for Patient and Population Services

• The PCIS EHR API supports client application registration and uses standardized operations. API instruction and documentation is available for application developers.

### **Requirements and Test Plan**

#### **Care Coordination -**

# 170.315(b)(1) Transitions of Care

Product	PCISGOLD EHR Version 2.6
Care Setting	Ambulatory Outpatient Multi-Specialty Clinic
Testing Period	2025 – Over a 90-day consecutive period

#### **Requirement / Test Plan:**

<u> </u>	
Send transition of	<ol> <li>Find the patient to send an Outbound TOC CCDA.</li> </ol>
care/referral summaries	2. Open the Health record, and navigate to the TOC section.
	<ol><li>Select the visit marked as TOC outbound.</li></ol>
	4. Send via direct.
Receive transmission of	User will open the inbound TOC task in eTask.
care/referral summaries	2. If patient was not automatically matched, then user will
	search for patient and attach the inbound CCDA to the
	selected patient.

#### **Justification:**

The PCIS EHR has the ability to send and receive TOC CCDA referral summaries via direct protocols.

The goal of this test procedure is to ensure that the expected results are obtained and consistent with the standards set forth in 170.315(b)(1). We will exchange messages with an external system to conduct this test and verify the results.

Sent and received messages will be logged and counted. All errors will also be recorded.

<b>Expected Outcome / Metric</b>	Transition of care/referral summaries are sent and received to and
	from external sources with an error rate of less than five percent.

# 170.315(b)(2) Clinical Information Reconciliation and Incorporation

Product	PCISGOLD EHR Version 2.6
Care Setting	Ambulatory Outpatient Multi-Specialty Clinic
Testing Period	2025 – Over a 90-day consecutive period

# **Requirement / Test Plan:**

Complete the Clinical	<ol> <li>User will open the inbound TOC task and perform the clinical</li> </ol>
information reconciliation	reconciliation for Medication Lists, Allergy Lists and Problems.
and incorporate the	2. User confirms that data is in a single reconciled list.
received TOC CCDA	

#### **Justification:**

The PCIS EHR has the ability to send and receive TOC CCDA Referral summaries via direct protocols.

The goal of this test procedure is to ensure that the expected results are obtained and consistent with the standards set forth in 170.315(b)(2).

We will exchange messages with an external system to conduct this test and verify the results. We will select a sample of inbound messages to confirm that they have been incorporated and reconciled.

<b>Expected Outcome / Metric</b>	Clinical information reconciliation is completed and the CCDA is
	incorporated for more than 90 percent of the received messages.

### 170.315(b)(3) Electronic Prescribing

Product	PCISGOLD EHR Version 2.6
Care Setting	Ambulatory Outpatient Multi-Specialty Clinic
Testing Period	2025 – Over a 90-day consecutive period

# **Requirement / Test Plan:**

<b>Electronic Prescription sent</b>	1. Find a patient to send an electronic prescription.
by a provider	<ol><li>Click on the <prescribe meds=""> button.</prescribe></li></ol>
	3. Search for the drug to eRx and enter sig and dose information.
	4. Select the pharmacy for the eRx and process the eRx.

#### Justification:

The PCIS EHR has the ability to send electronic prescriptions and request patient medication history. The PCIS EHR relies upon third party software, Newcrop to fulfill this requirement.

The goal of this test procedure is to ensure that the eRx is successfully sent to external pharmacies and that patient medication history can be requested consistent with the standards set forth in 170.315(b)(3). This test procedure verifies successful integration with relied upon third party software.

We will confirm that the pharmacy has received the eRX by checking the response status. We will then count the total sent messages and errors.

Expected Outcome / Metric	Providers can successfully send electronic prescriptions with a failure
	rate of less than one percent.

# 170.315(b)(10) Electronic Health Information Report

Product	PCISGOLD EHR Version 2.6
Care Setting	Ambulatory Outpatient Multi-Specialty Clinic
Testing Period	2025 – Over a 6 Month Period of Time

# **Requirement / Test Plan:**

1.	Select the <patient ehi="" export=""> function from the Tools Menu.</patient>
2.	Add the Description for the Export.
3.	Click <add patient="">.</add>
4.	Select one or more patients to Export.
5.	Press <start> and allow the Export to finish.</start>
6.	Click on <download file=""> to download the Export data file.</download>

### **Justification:**

The PCIS EHR has the ability to export single patient and patient population electronic health information.

The goal of this test procedure is to ensure that the export of a single patient and patient populations are successfully exported in an timely manner consistent with the standards set forth in 170.315(b)(10).

Each EHI data export logs the number of records that were created and exported and any errors encountered. A sample of these logs from the testing period will be reviewed.

<b>Expected Outcome / Metric</b>	Authorized users can create and export single and patient population
	EHI data files at any time. These files will be exported with a success
	rate of more than 95 percent.

### **Clinical Quality Measures –**

# 170.315(c)(1) Record and Export

Product	PCISGOLD EHR Version 2.6
Care Setting	Ambulatory Outpatient Multi-Specialty Clinic
Testing Period	2025 – Over a 90-day consecutive period

# **Requirement / Test Plan:**

Record and export the CQM	1. Record patient data necessary to calculate quality measures
QRDA 1 file for measures	by the PCIS EHR.
selected by the end user	2. Select CQM measures under the Tools menu.
	3. Select the export QRDA 1.
	4. Select one or all patients and export the files to the
	destination.

### **Justification:**

The PCIS EHR has the ability to record the data necessary to calculate quality measures through manual entry or import. Also, the PCIS EHR has the ability to export patient level eCQM data formatted to HL7 QRDA 1.

The goal of this test procedure is to ensure that the QRDA 1 is successfully exported and saved in the destination location and consistent with the standards set forth in 170.315(c)(1).

<b>Expected Outcome / Metric</b>	The information necessary to calculate quality measures can be
	manually recorded and exported in QRDA 1 format. The number of
	files in the destination will match the number of selected files.

# 170.315(c)(2) Import and Calculate

Product	PCISGOLD EHR Version 2.6
Care Setting	Ambulatory Outpatient Multi-Specialty Clinic
Testing Period	2025 – Over a 90-day consecutive period

# **Requirement / Test Plan:**

Import the CQM QRDA 1	1. Place the QRDA 1 files in the folder designated for imports.
file and calculate the results	2. Start a CQM run (manual/automated).
for measures selected by	3. Verify the quality measure results include the data from the
the end user	imported QRDA file.

#### Justification:

The PCIS EHR has the ability to import CQM QRDA 1 files and use that data for calculations.

The goal of this test procedure is to ensure that the QRDA 1 is successfully imported and included in the calculations and consistent with the standards set forth in 170.315(c)(2).

The imported data will be saved in the database so it can be reviewed for completeness.

<b>Expected Outcome / Metric</b>	Providers can successfully send electronic prescriptions with a failure
	rate of less than one percent.

# 170.315(c)(3) Report

Product	PCISGOLD EHR Version 2.6
Care Setting	Ambulatory Outpatient Multi-Specialty Clinic
Testing Period	2025 – Over a 90-day consecutive period

### **Requirement / Test Plan:**

Create the CQM QRDA 3	1. Select <quality measures=""> under the Tools menu.</quality>
results files for the	2. Select the provider or the facility tab.
measures selected by the	3. Select the checkbox beside each CQM measure to create a
end user	QRDA 3 file.
	4. Press <export> button and enter the user information and</export>
	export location.
	5. Press <ok> to create the file.</ok>

# **Justification:**

The PCIS EHR has the ability to create CQM QRDA 3 files for the patients and providers selected.

The goal of this test procedure is to ensure that the QRDA 3 file is successfully created and the calculations are consistent with the standards set forth in 170.315(c)(3).

The counts in the QRDA 3 file match the report.

Expected Outcome / Metric	The information necessary to calculate quality measures can be
	manually recorded and exported in QRDA 1 format. The number of
	files in the destination will match the number of selected files.

### **Patient Engagement -**

# 170.315(e)(1) View, Download, and Transmit to 3<sup>rd</sup> Party

Product	PCISGOLD EHR Version 2.6
Care Setting	Ambulatory Outpatient Multi-Specialty Clinic
Testing Period	2025 – Over a 90-day consecutive period

# **Requirement / Test Plan:**

requirement / restrian.	
Patient can view the visit summary on the patient	<ol> <li>Complete a visit in the EHR to make it available on the Patient Web Portal.</li> </ol>
web portal	2. Log in as that patient and navigate to the <medical tab="">.</medical>
	3. Select the <visit history=""> menu item.</visit>
	4. Select <view> under the document's dropdown.</view>
Patient can download the visit summary in the correct	<ol> <li>Complete a visit in the EHR to make it available on the Patient Web Portal.</li> </ol>
CCDA format	2- Log in as that patient and navigate to the <medical tab="">.</medical>
	3- Select the <visit history=""> menu item.</visit>
	4- Select <download> under the document's dropdown.</download>
Patient can transmit the CCDA to a 3 <sup>rd</sup> party	<ol> <li>Complete a visit in the EHR to make it available on the Patient Web Portal.</li> </ol>
. ,	2. Log in as that patient and navigate to the <medical tab="">.</medical>
	3. Select the <visit history=""> menu item.</visit>
	4. Select <transmit> under the document's dropdown.</transmit>
	5. Fill in the required information.
	6. Press <send>.</send>

### Justification:

The PCIS EHR has the ability to view, download, and transmit the summary of care CCDA file for selected patients.

The goal of this test procedure is to ensure that the CCDA is successfully created and accessible to the patient via the patient web portal. This is consistent with the standards set forth in 170.315(e)(1).

The system creates a log each time a patient views, downloads, or transmits the CCDA. The reported errors for these functions will be tracked.

<b>Expected Outcome / Metric</b>	Patients can do the following:
	1. view the visit summary on the patient web portal
	2. download the visit summary in the correct CCDA format
	3. transmit the CCDA to a 3rd party.
	The reported error rate will be less than 5 percent.

#### **Public Health -**

# 170.315(f)(1) Transmission to Immunization Registries

Product	PCISGOLD EHR Version 2.6
Care Setting	Ambulatory Outpatient Multi-Specialty Clinic
Testing Period	2025 – Over a 90-day consecutive period

# **Requirement / Test Plan:**

Generate HL7 VXU immunization messages to be sent to an immunization registry	Document the immunization details on the patient immunization screen. HL7 VXU message is automatically generated with immunization information and transmitted to immunization partner registry.
Receive and display historical immunization information	The PCIS system will automatically request immunization history for scheduled patients the morning of their appointment.  Immunization details provided from a partner registry will appear
	on the Patient Immunization screen.
Receive and display immunization forecast information	The PCIS system will automatically request an immunization history for scheduled patients the morning of their appointment.
	Click <forecast> to display the forecast details from the partner registry.</forecast>

### **Justification:**

The PCIS EHR has the ability to send and receive immunization details from a partner registry.

The goal of this test procedure is to ensure that the immunization information is successfully sent and received. This is consistent with the standards set forth in 170.315(f)(1).

A sample of the VXU sent messages will be compared to the partner registry to calculate a percentage of successful messages.

Expected Outcome / Metric	The PCIS GOLD EHR completes the following tasks:
	1. sends immunization information to the partner registry,
	2. receives and displays historical immunization information, and
	3. receives and displays immunization forecast information.
	More than 95 percent of the sample VXU messages will be successfully
	received by the partner registry.

# 170.315(f)(2) Transmission to Public Health Agencies – Syndromic Surveillance

Product	PCISGOLD EHR Version 2.6
Care Setting	Ambulatory Outpatient Multi-Specialty Clinic
Testing Period	2025 – Over a 90-day consecutive period

# **Requirement / Test Plan:**

Create syndromic	1. Open the Patient Visit Charting screen.
surveillance information for	2. Select the Urgent Care checkbox in the Transition of Care
electronic transmission	section.
	3. Fill in the appropriate information.
	Note: The correct HL7 message is generated for electronic transmission.

# **Justification:**

The PCIS EHR has the ability to generate syndromic surveillance information for submission to a public health agency.

The goal of this test procedure is to ensure that the syndromic information is successfully created for submission and consistent with the standards set forth in 170.315(f)(2).

The failure rate for the created messages will be tracked.

<b>Expected Outcome / Metric</b>	Users can create syndromic surveillance information for electronic
	transmission. This will be done with more than a 99 percent success
	rate.

# 170.315(f)(4) Transmission to Cancer Registries

Product	PCISGOLD EHR Version 2.6
Care Setting	Ambulatory Outpatient Multi-Specialty Clinic
Testing Period	2025 – Over a 90-day consecutive period

# **Requirement / Test Plan:**

Create cancer case	<ol> <li>Add a cancer diagnosis code to a patient visit.</li> </ol>
information for electronic	A task for the cancer case is created on the Visit Checkout
submission	screen.
	2. Fill in the appropriate details on the cancer case task.
	3. Press <send registry="" to=""> to create the HL7 message.</send>

### **Justification:**

The PCIS EHR has the ability to create cancer case information for submission to a public health agency.

The goal of this test procedure is to ensure that the cancer case document is successfully created for submission and consistent with the standards set forth in 170.315(f)(4).

The failure rate for the number of created messages will be tracked.

<b>Expected Outcome / Metric</b>	Users can create cancer case information for electronic submission
	with a success rate of more than 99 percent.

# **Application Programming Interfaces -**

# 170.315(g)(7) Application Access Patient Selection

Product	PCISGOLD EHR Version 2.6
Care Setting	Ambulatory Outpatient Multi-Specialty Clinic
Testing Period	Interactive live testing

# **Requirement / Test Plan:**

Receive a request for	1. An application developer registers their application with the	
information to identify a	API by following the API documentation instructions.	
patient and return an ID	2. The application performs standalone patient launch using	
that can be used for	user credentials that are associated with a patient.	
subsequent requests	3. The OAuth token exchange response body contains the	
	patient identifier.	

### **Justification:**

The PCIS EHR has the ability to return a patient id via the API when requested with enough information.

The goal of this test procedure is to ensure that the API will find a patient and return the unique Id. This is consistent with the requirements of 170.315(g)(7).

The failure rate for the test event will be recorded.

<b>Expected Outcome / Metric</b>	The API can receive a request for information to identify a patient. It	
	can also return an ID that can be used for subsequent requests with a	
	success rate of more than 95 percent.	

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

Product	PCISGOLD EHR Version 2.6
Care Setting	Ambulatory Outpatient Multi-Specialty Clinic
Testing Period	Interactive live testing

# **Requirement / Test Plan:**

The API will return properly	<ol> <li>A third-party developer follows instructions on the PCIS</li> </ol>	
formatted summary CCDAs	website for API documentation.	
when requested via the API	2. The third-party application calls the individual methods to	
	identify and return the CCDA summaries.	

#### **Justification:**

The PCIS EHR has the ability to return summary CCDAs via the API when requested with the correct patient identifier.

The goal of this test procedure is to ensure that the API will allow a third-party app to retrieve the CCDAs. This is consistent with the requirements of 170.315(g)(9).

The failure rate for calls that occur during the test event will be recorded.

Expected Outcome / Metric	The API will return properly formatted summary CCDAs when	
	requested via the API. This will be done with a success rate of more	
	than 95 percent.	

# 170.315(g)(10) Standardized API for Patient and Population Services

Product	PCISGOLD EHR Version 2.6
Care Setting	Ambulatory Outpatient Multi-Specialty Clinic
Testing Period	Interactive live testing

# **Requirement / Test Plan:**

The API supports client application registration	<ol> <li>Application developer follows documentation instructions to register their client application.</li> </ol>
	<ol><li>The client application uses standalone patient launch application flow to authorize with the API.</li></ol>
	<ol> <li>The client application makes several calls to obtain patient data.</li> </ol>

### **Justification:**

The PCIS EHR API supports application registration and uses standardized operations. Documentation is available for application developers.

The goal of this test is to ensure that client applications can register and use the API to access patient data, and that documentation is available.

Any errors encountered by the client application during the test event are recorded.

<b>Expected Outcome / Metric</b>	The API will return properly formatted summary CCDAs when	
	requested via the API. This will be done with a success rate of more	
	than 95 percent.	

# **Schedule of Key Milestones**

Key Milestone	Date/Timeframe
Design and develop the PCIS Real World Testing plans.	August - November 2024
Submit Real World Testing Scripts to the Drummond Group	November 2024
Real World Testing Plan to be published on the PCIS GOLD website.	December 2024
Begin collection of data as laid out by the PCIS Real World Testing	January 1st, 2025
Plan.	
Data collection and review	2025
End of Real World Testing period collection of all data for analysis.	End of 2025
Data analysis and report generation.	January 2026
Submit Real World Testing Report	February 2026

This Real World Testing plan is complete with all required elements, including measures that addresses 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.

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Authorized Representative Signature: \_\_\_

Date: 10/30/2024