# Test Criteria: 170.315.g.7 – Application Access – Patient Selection

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| **Testing Result** |  |
| Participant and Product-with-version |  |
| Setting (Ambulatory or Inpatient) |  |
| Test Proctor |  |
| Test Date |  |
| Test Result | Pass:  Fail:  No Attempt: |
| Error Description (if applicable) |  |
| Modifications to Product Under Test |  |
| Additional Software Used |  |
| Additional Proctor Notes |  |
| Test Client Used |  |

### Overview

In this document you will find:

* [Test Data and Test Tools](#_Test_Data_and)
* [Standards Support](#_Demonstrate_Standards_Support)
* [Drummond Test Report (Instructions, Expected Results, Points to Remember)](#_170.315(g)(7)(i)_Patient_Selection)
* [Test Procedures](#_170.315(g)(7)(i)_Patient_Selection)
* [Appendix A: Testing Guide](#_Appendix_A:_Testing)
* [Appendix B: ONC Criteria](#_Appendix_B:_ONC)

### Version of ONC Test Method

1.0

### Scope of Proctoring Sheet

The ONC test method associated with this criterion is the only approved test method for EHR Meaningful Use certification. This Proctoring Sheet is not a replacement test method but a test procedure document for performing the ONC test method and recording the results. Proctoring Sheet describe test data, test criteria and expected results. It is assumed the Health IT developer or Participant Under Test is familiar with the associated ONC test method.

# Robustness and Reliability Requirement

To satisfy the module criteria, it is expected that the Product-Under-Test is able to complete the testing requirements reliably, including repeat testing with the same result without error, and with a satisfactory level of robustness. This includes unexpected error messages produced through normal operation, multiple unintended restarts of the application or any other “buggy” facets of the product displayed while testing. These errors are record in the Additional Proctor Notes of the proctor sheet. Lack of reliability and robustness of design will result in failure of the module.

# Test Data and Tools

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| **Test Data Source:** | ONC-Supplied  DG-Supplied:  Developer-Supplied: |
| **Pre-Test Data Setup:**  Health IT developer pre-loads either:   * Developer-supplied test data; or * ONC test data specified for 170.315(g)(9) for the applicable setting. See Edge Test Tool [C-CDA R2.1 Validator](https://ttpedge.sitenv.org/ttp/#/validators) for data. | |
| **Test Data:**  Developer-supplied or ONC-supplied. | |
| **Test Tools:**  Health IT developer should supply its own API test client. Test Client Minimum Requirements:   * API Test Client should include all necessary functionality to demonstrate compliance with the criteria outlined in the Test Method for 170.315(g)(7) and the steps outlined in this Document. * Ability to show the API call being executed (including any messages being sent from the client to the API server) and the results returned from the API server to the API client in raw form (XML, JSON, or other computable format). * Authenticate to the API server using a valid login or other security credential and demonstrate the ability to use a validated security token for the API session for subsequent API calls until the session expires or time out. * Demonstrate the communication security layer being used between the API Client and the API Server. | |

# Demonstrate Standards Support

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| **Test Result:** | PASS:  FAIL:  No Attempt: |
| **Instructions:** There are no standards required for this criterion, however, ONC encourages the use of the Fast Healthcare Interoperability Resources (FHIR) specification. | |

# 170.315(g)(7) Patient Selection Function

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| **Test Result:** | PASS:  FAIL:  No Attempt: |
| **Optional Field Included?** | YES:  NO: |
| **Instructions:**   * User makes an API request for a patient with enough data to identify the patient (e.g Demographics, CCDS data). | |
| **Expected Test Result:**   * Health IT module can receive a request with sufficient information to uniquely identify a patient and return an ID or other token that can be used by an application to subsequently execute requests for that patient’s data. * API must include accompanying documentation that contains at a minimum: * API syntax, function names, required and optional parameters and their data types, return variables and their types/structures, exceptions and exception handling methods and their returns. * The software components and configurations that would be necessary for an application to implement in order to be able to successfully interact with the API and process its response(s). * Terms of use. The terms of use for the API must be provided, including, at a minimum, any associated developer policies and required developer agreements. * Documentation must be available via publicly accessible hyperlink. | |
| **Points to Remember:**   * Applications should not be required to pre-register (or be approved in advance) with the provider or their Health IT Module developer before being allowed to access the API. * P&S certification framework for the API criteria requires that a Health IT Module certified to this criterion be capable of ensuring that: valid user credentials such as a username and password are presented (that match the credentials on file at the provider for that user); the provider can authorize the user to view the patient’s data; the application connects through a trusted connection; and the access is audited. * The HIT developed can determine the method and the amount of data by which the health IT uniquely identifies a patient. * Health IT Developer should maintain a copy of the API test client used during testing for auditing or surveillance activities. * All of the documentation must be accessible to the public via a hyperlink without additional access requirements, including, without limitation, any form of registration, account creation, “click-through” agreements, or requirement to provide contact details or other information prior to accessing the documentation. | |

**Test Procedures**

**1.1 Developer-Supplied Test Client**

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|  | Using the developer-supplied API test client, Proctor will verify the following minimum requirements during the test event:   * Verify the API call being executed (including any messages being sent from the client to the API server) and the results returned from the API server to the API client in raw form (XML, JSON, or other computable format). * Authenticate to the API server using a valid login or other security credential and demonstrate the ability to use a validated security token for the API session for subsequent API calls until the session expires or time out. * Demonstrate the communication security layer being used between the API Client and the API Server. |

<INSERT SCREEN SHOTS>

**1.2 Application Access Patient Selection**

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|  | Visual inspection of Test client making API call to get patients match Health IT developer supplied parameter(s). |
|  | Visual inspection of API return. Test confirms that:   * API correctly matches patient based on query parameters; and * API returns a specific patient ID(s) or other token that can be used by an application to subsequently execute requests for that patient’s data. |

<INSERT SCREEN SHOTS>

**1.3 API Documentation**

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|  | Health IT developer provides documentation describing the API, with the intended audience of developers, and includes at a minimum:   * API syntax; * function names; * required and optional parameters and their data types; * return variables and their types/structures; and * exceptions and exception handling methods and their returns * API implementation requirements including the software components and configurations that would be necessary for an application to implement in order to be able to successfully interact with the API and process its response(s). |
|  | Health IT developer supplies the API’s Terms of Use, which needs to include, at a minimum, any associated developer policies and required developer agreements. |
|  | Documentation supplied for this section must be available via a publicly accessible hyperlink. |
|  | Proctor reviews submitted documentation and verifies:   * Health IT module’s API definition is accurate and without omission and that it matches the version of the software release; * Health IT Module’s API interface requirements (including both the software components and the configuration) is accurate and without omission and that it matches the version of the software release; * The supplied documentation contains Terms of Use and that it matches the version of the software release; and * The supplied documentation is publicly accessible by hyperlink. |

<INSERT LINK TO API DOCUMENTATION and PUBLIC URL>

# Appendix A: Testing Guide

*This appendix contains more details and background on the testing requirements, including explanation on underlying standards, notable issues and best practice suggestions.*

Rev 01-Mar-2016 Additions

* <NONE>

# Appendix B: ONC Criteria and Standards

*This appendix contains copy of the relevant ONC criteria and standards for this proctor sheet as a reference. In the event of a discrepancy with the ONC Final Rule, the ONC Final Rule takes precedence.*

**§170.315(g)(7) Application Access – Patient Selection**

The following technical outcomes and conditions must be met through the demonstration of an application programming interface (API).

(i) Functional Requirement. The technology must be able to receive a request with sufficient information to uniquely identify a patient and return an ID or other token that can be used by and application to subsequently execute requests for that patient’s data.

(ii) Documentation.

1. The API must include accompanying documentation that contains, at a minimum:
   1. API syntax, function names, required and optional parameters and their data types, return variables and their types/structures, exceptions and exception handling methods and their returns.
   2. The software components and configurations that would be necessary for an application to implement in order to be able to successfully interact with the API and process its response(s).
   3. Terms of use. The terms of use for the API must be provided, including, at a minimum, any associated developer policies and required developer agreements.
   4. The documentation used to meet paragraph (g)(7)(ii)(A) of this section must be available via a publicly accessible hyperlink
2. The documentation used to meet paragraph (g)(7)(ii)(A) of this section must be available via a publicly accessible hyperlink

# Change Log

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| --- | --- |
| Revision | Change Description |
| 15-Sept-2017 | Added clarification that documentation must be available to the public via a hyperlink without any additional access requirements. |
| 01-Oct-2016 | Updated hyperlink for ONC-hosted ETT. |
| 01-May-2016 | Added test client requirement to be supplied by health IT developer under “Test Data and Tools” section. Added section for verification of Test Client Requirements during test event. |
| 01-Mar-2016 | Initial Release. |
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**About Drummond Group LLC**

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