Cypress™

Cypress Tech Talk

January 29, 2020

MITRE

The Office of the National Coordinator for
Health Information Technology

CMS
CENTERS FOR MEDICARE & MEDICAID SERVICES

Agenda

- Software Updates
  - Cypress 5.2.0 Patch Release
    - 2020 CMS QRDA I Implementation Guide Updates
    - Editable C1 Record Sample Test Attributes
- Recent Issues
  - CYPRESS-1868
  - Known Issues Dashboard
- Cypress Versions
- Announcements
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- Contact Information

Software Updates
Cypress 5.2.0 Release

- **A 5.2.0 patch release for Cypress was released on December 19, 2019**

- **Cypress Features**
  - Addresses changes made in the December 2019 update to the 2020 CMS QRDA I Implementation Guide.
  - Ability to edit attributes used for C1 Record Sample tests.
  - Bundle Update 2019.1.1: Removed four retired measures
    - Removed CMS52v8, CMS82v7, CMS132v8, CMS160v8

- **Cypress Bugs Addressed**
  - Address calculation discrepancies for CMS165v8 due to ordering of Physical Exams (CYPRESS-1868)

Software Updates
2020 CMS QRDA I Implementation Guide Updates

- **https://ecqi.healthit.gov/sites/default/files/QRDA-HQR-2020-CMS-IG-v1.1-508.pdf**

- **Negated entries MUST negate a valueset or direct reference code**

- **Previously, Cypress allowed single code negation. This update enforces a warning or error when a valueset should be used.**
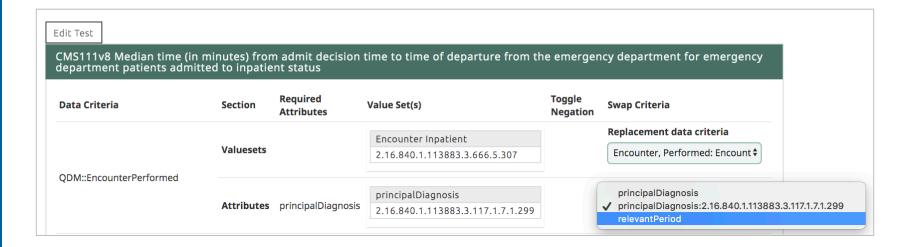
5.2.3.1 "Not Done" with a Reason

To report a QDM data element that is not done (when `negationInd`="true") with a reason, such as "Medication Not Administered" with negation rationale attribute indicating it is due to patient reason, the following steps must be followed:

1. Must set the attribute `negataionInd`="true"

2. If QDM in eCQM specification is defined using a value set, for example, ["Medication, Not Ordered": "Warfarin"]:

- Must provide `code/[@nullFlavor="NA"]`
- Must provide the value set OID instead of a specific code from the value set. Set the code attribute `code/sdtc:valueset="[VSAC value set OID]"`
  - Use `code/originalText` for the text description of the concept in the pattern `"None of value set: [value set name]"`

Software Updates

Editable C1 Record Sample Test Attributes

- **Select "Edit Test" for a C1 Record Sample Test**
- **Cypress will allow the user to swap the attribute (in addition to the criteria swap option)**
- **Attributes are shown with valueset oid if the attribute has an associated valueset**

Recent Issue
Cypress 5.1.0 Known Issue

- [CYPRESS-1868](#)
- CMS165v8
  - https://ecqi.healthit.gov/ecqm/ep/2020/cms165v8
  - CQL includes "$" sort of Blood Pressure exam
- Cypress calculates differently based on the order of entries
  - Issue in the calculation engine
  - Engine does not sort entries properly in order to find the most recent
- Current workaround is to re-order entries

CQL:

```
Last("Blood Pressure Days" BPDays
                sort by $this
)
```

Affects measured blood pressure entries:

```
▼<entry>
 ▼<observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.59" extension="2017-08-01"/>
    <templateId root="2.16.840.1.113883.10.20.22.4.13" extension="2014-06-09"/>
    <id root="c48d899d-7201-4d1a-94ae-e8a333f8d641"
    extension="CMS165v8_5dcd6fe7636239035cc7bd98/5dcd6fda636239035cc7b2e1"/>
    <code code="8462-4" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
    displayName="Diastolic blood pressure"/>
    <statusCode code="completed"/>
  ▼<effectiveTime>
      <low value="20181221170500"/>
      <high value="20181221170500"/>
    </effectiveTime>
    <value xsi:type="PQ" value="60.00" unit="mm[Hg]"/>
  ▼<author>
      <templateId root="2.16.840.1.113883.10.20.24.3.155" extension="2017-08-01"/>
      <time value="20181221170500"/>
    ▼<assignedAuthor>
        <id nullFlavor="NA"/>
      </assignedAuthor>
    </author>
  </observation>
</entry>
```
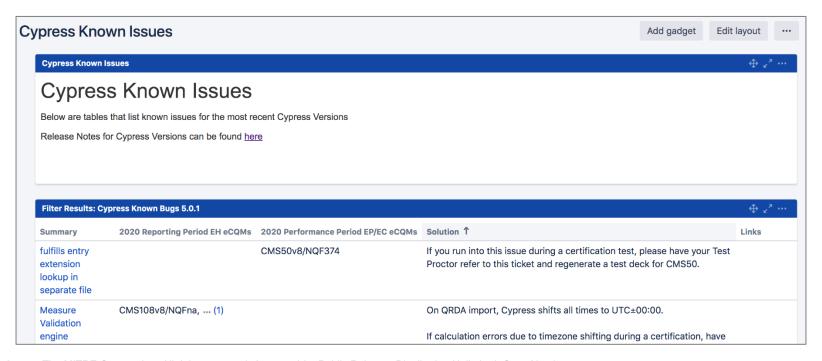
Recent Issue
Cypress Known Issues Dashboard

- https://oncprojectracking.healthit.gov/support/secure/Dashboard.jspa?selectPageId=18000

- The Dashboard collects all labeled known issues in one place, sorted by Cypress version

- Easily navigate to the dashboard from the Cypress summary page

Cypress Versions

Version	Dates	Measures Supported
V4.0.4	October 3, 2019	Latest version supporting eCQMs for the 2019 Reporting/Performance Period and CQL. Fixes QRDA and other 4.0.3 bugs.
V5.1.0	November 7, 2019	Support for QRDA Category I R5.1 errata
V5.2.0	December 19, 2019	Latest version supporting eCQMs for the 2020 Reporting/Performance Period and CQL. Contains feature improvements and fixes for bugs found in Cypress v5.1.0

Bundle Version	Dates	Features
2018.1.0	October 11, 2018	**Cypress v4 only** CQL-based measures released in 2018 for the 2019 reporting year eCQM Value Sets as of 9/17/2018.
2019.1.0	November 7, 2019	**Cypress v5 only** Precalculated results Updates to Z6 VTE, Z13 N VTE, B GP Peds and 1 BH Infant
2019.1.1	December 19, 2019	**Cypress v5 only** CQL-based measures released in 2019 for the 2020 reporting year. Removed retired measures as announced on November 19, 2019.

Announcements

- **Now Available: New Modules on the CMS Measure Collaboration Workspace**
  - The Centers for Medicare & Medicaid Services (CMS) is excited to announce the availability of the Measure Collaboration (MC) Workspace. The December 2019 release includes three new modules to the MC Workspace: eCQM Concepts, New eCQM Clinical Workflow, and eCQM Test Results. The MC Workspace is made up of four modules to support measure collaboration:
    - eCQM Concepts allows users to search existing measure inventories and submit new measure concepts for consideration
    - New eCQM Clinical Workflow allows users to review sample clinical workflows associated with new eCQMs and an opportunity to provide feedback on anticipated challenges
    - The eCQM Data Element Repository provides data definitions to aid in measure implementation and data mapping
    - eCQM Test Results provides transparency into how measures are tested and allow users to express interest in participating in eCQM testing activities

For additional information, visit the Frequently Asked Questions at https://ecqi.healthit.gov/mcw-faqs. CMS encourages users to explore the Measure Collaboration (MC) Workspace and provide feedback at ecqi-resource-center@hhs.gov.

OPEN DISCUSSION

Next Cypress Tech Talk

- Wednesday, February 11, 2020 at 1pm ET
- To join online, visit: https://global.gotomeeting.com/join/529898157
- To join via phone, dial: 1-646-749-3122
- Meeting Number: 529 898 157
- Meeting link, as well as a calendar event file, available at:
  - https://www.healthit.gov/cypress/techtalks.html

Notes

- **Completed Webinars will be posted on the Cypress website on the Tech Talks tab**
  - https://www.healthit.gov/cypress/techtalks.html

- **Send questions and feedback to the Cypress Talk List at**
  - project-cypress-talk@googlegroups.com

- **Report bugs and issues to the Cypress JIRA at**
  - https://oncprojectracking.healthit.gov/support/browse/CYPRESS