Agenda

- Software Updates
  - Bugs to be addressed in 4.0.2 patch release
- Cypress Versions
- Open Discussion
- Contact Information
Software Updates

Bugs addressed in 4.0.2 patch release

- An “Assessment, Performed” Result should not be reported in a nested Result Template. ([CYPRESS-1498], [CYPRESS-1544])
- ‘Randomized’ patient birthdate can cause calculation errors. ([CYPRESS-1503])
- Confusing display of Direct Reference Codes in “C4 Filter Tests.” ([CYPRESS-1533])
- Use updated ‘Related To’ template instead of ‘Fulfills’ for C1 Record Sample test. ([CYPRESS-1537])
- Strictly enforce the existence of a code-negation pair within the same entry for C1 Record Sample verification. ([CYPRESS-1538])
- Do not export patients using the ‘Other’ code 2131-1. ([CYPRESS-1539])
- An id not required in the Encounter Performed Act template in QRDA Category I R5. ([CYPRESS-1541])
Software Updates

Bugs addressed in 4.0.2 patch release

Cypress v4.0.2

The Cypress 4.0.2 patch is scheduled for release on 1/31/18. Changelog for the release is below.

Cypress Bugs Addressed
- An "Assessment, Performed" Result should not be reported in a nested Result Template. (CYPRESS-1498, CYPRESS-1544)
- 'Randomized' patient birthdate can cause calculation errors. (CYPRESS-1503)
- Confusing display of Direct Reference Codes in "C4 Filter Tests." (CYPRESS-1533)
- Use updated 'Related To' template instead of 'Fulfills' for C1 Record Sample test. (CYPRESS-1537)
- Strictly enforce the existence of a code-negation pair within the same entry for C1 Record Sample verification. (CYPRESS-1538)
- Do not export patients using the 'Other' code 2131-1. (CYPRESS-1539)
- An id not required in the Encounter Performed Act template in QRDA Category I BE. (CYPRESS-1541)

C4 Filter does not display correct code or value set for Problems

Type: Bug/Issue
Priority: Moderate
Status: IN PROGRESS
Resolution: Unresolved
Labels: KnownBug4.0.1

Description:
We are going through certification in just a few hours and are seeing the following filter criteria for C4:

Problems SNOMEDCT codes in Congenital absence of cervix (disorder) (code: drc-2ee0184782bef2989f2805dcd74e47c73f590a1ce12a00cedb235f1e691e47e)

My assumption is that this is happening because the code is not contained in a value set but rather as a cqf "code" element as follows:

code "Congenital absence of cervix (disorder)": '37687000' from "SNOMEDCT:2017-09"

File failed import error for 2019 eCQMs

Type: Bug/Issue
Priority: Moderate
Status: IN PROGRESS
Resolution: Unresolved
Labels: KnownBug4.0.1, QRDA-I

Description:
Multiple QRDA files for an...
Software Updates

CYPRESS-1498/CYPRESS-1544: Result Value embedded in Observation

- **Precondition**
  - A Cypress 4.0.1 instance
  - Measures with an Assessment, Performed with a “Result”
    - Ex: CMS149v7, CMS56v7, CMS66v7

- **Issue**
  - Cypress exports patients for these measures that contain Assessment, Performed elements with a “Result” value
  - The result is embedded in an Observation
  - QRDA Category I R5 expects the Result in the top level Assessment element

- **Changes:**
  - Changes to both export and read patient files according to the correct template format
  - Note: Changed from previous format in QRDA I R4

Example XML:

```
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <!-- Assessment Performed -->
    <templateId root="2.16.840.1.113883.10.20.24.3.144" extension="2017-08-01" />

    <!-- Changes to both export and read patient files according to the correct template format -->
    <templateId root="2.16.840.1.113883.10.20.22.4.2" extension="2015-08-01"/>

    <value xsi:type="PQ" value="35.3" unit="%" />
  </observation>
</entry>
```

Should be:

```
<value xsi:type="PQ" value="35.3" unit="%" />
```
Software Updates

CYPRESS-1503: Differing birthdates for duplicated patients in Cypress

- **Precondition**
  - A Cypress 4.0.1 instance
  - The following measures
    - CMS82v6, Maternal Depression Screening
    - CMS52v7, HIV/AIDS PCP Prophylaxis
    - Measures where age is calculated with sub-year precision (Month, Week, Day)

- **Issue**
  - When duplicating patients, Cypress can (but does not always) change the birthdate
  - Normally, this doesn’t affect measure calculation
  - However, occasionally the “duplicated” patient’s birthdate will change measure results for the patient

- **Changes**
  - Cypress will now check for measure calculation changes as a result of birthdate changes and will not provide patient files with birthdates that cause this problem

---

**Turns 6 Months of Age During Measurement Period**

```
"Patient Characteristic Birthdate"] BirthDate
        where "CalendarAgeInMonthsAt"(BirthDate.birthDatetime, start of "Measurement Period") < 6
        and "CalendarAgeInMonthsAt"(BirthDate.birthDatetime, end of "Measurement Period") >= 6
```
Software Updates

CYPRESS-1525: Patient Characteristic Sex in Record Sample

- **Precondition**
  - A Cypress 4.0.1 instance
  - Editing Record Sample Test

- **Issue**
  - When editing a Record Sample Test Data Criteria list, there are a number of options for replacement data criteria
  - If the user selects Patient Characteristic Sex, and saves the test, they receive a Server Error message.

- **Workaround:**
  - Vendors and ATLs should not swap Patient Characteristic Sex in, should use any other criteria
Software Updates

CYPRESS-1533: Display of Direct Reference Codes

- **Precondition**
  - A Cypress 4.0.1 instance
  - Filtering Criteria or Record
  - Sample Criteria

- **Issue**
  - Cypress displays direct reference code (drc) information with an underlying UID rather than human readable format

- **Changes**
  - Cypress has made changes to the user interface to display a readable drc that can be input into EHR systems
Software Updates

CYPRESS-1537: “relatedTo” attribute in Record Sample

- **Precondition**
  - A Cypress 4.0.1 instance
  - Measures with “Communication: From Provider To Provider”
    - Uses “relatedTo” attribute
    - Ex: CMS50v7
  - “Communication: From Provider To Provider” is randomly selected for test

- **Issue**
  - Cypress expecting retired “fulfills” template id for the “Communication: From Provider To Provider” attribute “relatedTo”
  - “relatedTo” id should be accepted instead

- **Changes:**
  - Cypress now expects the appropriate “Related To” template id (2.16.840.1.113883.10.20.24.3.150)
Software Updates
CYPRESS-1538: Non-strict Code Correlation for Record Sample

§ Precondition
– A Cypress 4.0.1 instance
– Record Sample Test
– Criteria with corresponding attribute
– File with both correct codes in separate file locations

§ Issue
– Cypress checks for the appropriate attributes in correlation with a sample data criteria input
– In some cases, the attribute code may be in a different location in the file than the corresponding data criteria
– Cypress still passes these files as correct even though code was not put in under the correct data criteria

§ Changes
– Cypress will only pass a file as containing the correct data criteria if the corresponding attribute is associated with that data criteria
– Otherwise will display appropriate error

Both codes in file but in separate entries
Software Updates

CYPRESS-1539: Export of Patients with ‘Other Race’ Codes

- **Precondition**
  - Cypress includes test patients that use the ‘Other’ Race code 2131-1.

- **Issue**
  - When following the Electronic Clinical Quality Measure Logic and Implementation Guidance “Other Race 2131-1 should not be used because missing patient race information should be described using null values (described in the following paragraphs). “

- **Changes**
  - Cypress test decks will only include patients with the following race codes:
    - 1002-5 American Indian or Alaska Native
    - 2028-9 Asian
    - 2054-5 Black or African American
    - 2076-8 Native Hawaiian or Other Pacific Islander
    - 2106-3 White

<table>
<thead>
<tr>
<th>Patient Details</th>
<th>DOB</th>
<th>August 27, 1956</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gender</td>
<td>Male</td>
<td></td>
</tr>
<tr>
<td>Race</td>
<td>Other Race</td>
<td></td>
</tr>
<tr>
<td>Ethnicity</td>
<td>Not Hispanic or Latino</td>
<td></td>
</tr>
</tbody>
</table>
Software Updates

CYPRESS-1541: ID Requirement in “Encounter, Performed” template act element

- **Precondition**
  - A Cypress 4.0.1 instance
  - Patient with Encounter, Performed

- **Issue**
  - Cypress is incorrectly requires an id element in the Encounter Performed Act template instead of the “Encounter, Performed” template.

- **Changes**
  - Cypress has been updated to import the id from the Encounter, Performed template.
## Cypress Versions

<table>
<thead>
<tr>
<th>Version</th>
<th>Dates</th>
<th>Measures Supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>V 3.2.3</td>
<td>December 14, 2017</td>
<td>Support for the eCQMs for the 2018 Reporting/Performance Period&lt;br&gt;<em>will be supported alongside Cypress v4</em></td>
</tr>
<tr>
<td>V4.0.1</td>
<td>October 11, 2018</td>
<td>Support for the eCQMs for the 2019 Reporting/Performance Period&lt;br&gt;Support for Clinical Quality Language (CQL) calculation</td>
</tr>
<tr>
<td>V4.0.2</td>
<td>January 31, 2019</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bundle Version</th>
<th>Dates</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017.0.3</td>
<td>April 24, 2018</td>
<td>Cypress v3 only&lt;br&gt;“Z1 BH Adult” updated for CMS128v6</td>
</tr>
<tr>
<td>2017.0.4</td>
<td>September 25, 2018</td>
<td>Cypress v3 only&lt;br&gt;Errata update to fix ‘Download All Patients’ feature when 2017.0.3 and 2017.0.2 are installed simultaneously</td>
</tr>
<tr>
<td>2018.1.0</td>
<td>October 11, 2018</td>
<td>Cypress v4 only&lt;br&gt;CQL-based measures released in 2018 for the 2019 reporting year&lt;br&gt;eCQM Value Sets as of 9/17/2018.</td>
</tr>
</tbody>
</table>
OPEN DISCUSSION
Next Cypress Tech Talk

- Tuesday, January 29, 2019 at 1pm ET
- To join online, visit: https://meetings.cms.gov/orion/joinmeeting.do?MTID=98271705d4bc4ad148cf1e39d5c7408
- To join via phone, dial: 1-877-267-1577
- Meeting Number: 998 084 717
- 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 Timeline Tab
  - [https://www.healthit.gov/cypress/techtalks.html](https://www.healthit.gov/cypress/techtalks.html)

- Send questions and feedback to the Cypress Talk List at
  - [project-cypress-talk@googlegroups.com](mailto:project-cypress-talk@googlegroups.com)

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