Cypress™

Cypress Tech Talk

November 6, 2018
Agenda

- Software Updates
  - Submission Readiness Check (preliminary name)
- Recent Issues
  - CYPRESS-1498: Result Value embedded in Observation
  - CYPRESS-1503: Differing birthdates for duplicated patients in Cypress
- Cypress Versions
- Open Discussion
- Contact Information
Software Updates

Introducing, Submission Readiness Check

- Cypress v5 will include a new feature named the Submission Readiness Check
- This feature seeks to address the vendor concern that the ‘certification process does not mirror a production scenario for electronic Clinical Quality Measure (eCQM) reporting’
  - Certification uses a constrained set of test patients
  - Certification does not enforce reporting program requirements (i.e., CMS Implementation Guide)
- The Submission Readiness Check will supplement the existing certification program
  - Use of the Submission Readiness Check is not currently a requirement of the program
Software Updates
Submission Readiness Check – Features

- **Enhanced verification of a Health IT system’s eCQM calculations**
  - Using a combination of Cypress defined patients, and “bring your own” patients
  - Calculation for multiple eCQMs at once

- **Verification of a Health IT system’s ability to be configured (by a provider) to report to CMS programs**
  - Submission Readiness Check will test conformance with program specific requirements in the CMS QRDA Implementation Guides
Software Updates
Submission Readiness Check – Seeking Input

- Cypress plans to begin development of the Submission Readiness Check this fall for preliminary release in Spring 2019
  - Final release in Summer 2019 with Cypress v5
- Seeking input for features to be included with the Submission Readiness Check
- Will discuss further at the next Tech Talk
  - November 20, 2018
Software Updates

Bugs addressed in 4.0.1 patch release

The Cypress 4.0.1 patch is scheduled for release on 10/11/18. Changelog for the release is below

Cypress Features
- Cypress bundle for the 2019 Reporting/Performance period (eCQM value sets as of September, 2018).

Cypress Bugs Addressed
- Misrepresentation of ongoing events in HTML. (CYPRESS-1450)
- Calculation of patient Z21 GP Adult for CMS249 does not account for race. (CYPRESS-1461)
- Cypress's relative positioning of the "Negation Reason" in the Device, Order template impacts patient import. (CYPRESS-1443)
- C4 Problem filter not properly excluding patients without required diagnosis. (CYPRESS-1480)
- Duplicate Patients have significantly different date of birth, impacting calculation depending on which date of birth is selected. (CYPRESS-1483)
- Master Patient List download does not contain patient files.
- "Race Condition" in C2 setup may cause the Expected Results to be calculated with a subset of patient records. (CYPRESS-1486)

CMS 68v8 patient w/duplicate episodes counting individually

In Cypress 4.0.0, I found a specific patient (Z9 N BH Adult) appears to have duplicate episodes. But, upon closer inspection, two of the episodes have the same CPT codes. The only difference I see between the two is the inclusion of a modifier in one but not the other. Since there is no diagnosis requirement for this modifier or duplicate to appear, continuedduplicate & issue.

Device Order Element structure
- Key: CYPRESS-1477
- Summary: Device Order Element structure
- Status: CLOSED
- Created: 09/24/18
- Assignee: David Czulada

Z21 GP Adult race code mismatch, possible miscalculation
- Key: CYPRESS-1461
- Summary: Z21 GP Adult race code mismatch, possible miscalculation
- Status: IN PROGRESS
- Created: 09/09/18
- Assignee: David Czulada

CMS 68v8 patient w/duplicate episodes counting individually
- Key: CYPRESS-1453
- Summary: CMS 68v8 patient w/duplicate episodes counting individually
- Status: IN PROGRESS
- Created: 08/23/18
- Assignee: David Czulada

Device, Order negation author/time is missing and seems to be causing an issue
- Key: CYPRESS-1443
- Summary: Device, Order negation author/time is missing and seems to be causing an issue
- Status: IN PROGRESS
- Created: 07/23/18
- Assignee: David Czulada
**Recent Issue**

**CYPRESS-1498: 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

### Workaround:
- Read the result value from the Observation element
- Same location as QRDA I R4

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Recent Issue
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

- **Workaround: use the birthdate as shown in “View Patients”**
  - This is the “correct” birthdate for measure calculation purposes
  - If need be, reach out to the test proctor to acquire this information

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

```
{"Patient Characteristic Birthdate":"BirthDate"
where "CalendarAgeInMonthsAt"(BirthDate.birthDatetimetime, start of "Measurement Period")< 6
and "CalendarAgeInMonthsAt"(BirthDate.birthDatetimetime, end of "Measurement Period")>= 6
```
# Cypress Versions

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<thead>
<tr>
<th>Version</th>
<th>Dates</th>
<th>Measures Supported</th>
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<tbody>
<tr>
<td>V 3.2.3</td>
<td>December 14, 2017</td>
<td>Support for the eCQMs for the 2018 Reporting/Performance Period</td>
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<tr>
<td></td>
<td></td>
<td>*will be supported alongside Cypress v4</td>
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<tr>
<td>V4.0.1</td>
<td>October 11, 2018</td>
<td>Support for the eCQMs for the 2019 Reporting/Performance Period</td>
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<td>Support for Clinical Quality Language (CQL) calculation</td>
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<table>
<thead>
<tr>
<th>Bundle Version</th>
<th>Dates</th>
<th>Features</th>
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<tbody>
<tr>
<td>2017.0.3</td>
<td>April 24, 2018</td>
<td>Cypress v3 only</td>
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<tr>
<td></td>
<td></td>
<td>“Z1 BH Adult” updated for CMS128v6</td>
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<tr>
<td>2017.0.4</td>
<td>September 25, 2018</td>
<td>Cypress v3 only</td>
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<tr>
<td></td>
<td></td>
<td>Errata update to fix ‘Download All Patients’ feature when 2017.0.3 and 2017.0.2 are installed simultaneously</td>
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<tr>
<td>2018.0.1</td>
<td>July 26, 2018</td>
<td>Cypress v4 only</td>
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<tr>
<td>2018.1.0</td>
<td>October 11, 2018</td>
<td>Cypress v4 only</td>
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OPEN DISCUSSION
Next Cypress Tech Talk

- Tuesday, November 20, 2018 at 1pm ET

- See the Cypress website (below) for updated registration information

- 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

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