Cypress™

Cypress Tech Talk

December 18, 2018
Agenda

- Software Updates
  - Cypress Validation Utility + Calculation Check (CVU+)
  - Evolving Electronic Clinical Quality Measure (eCQM) Standards—Episode of Care and Proportion Measures
- Cypress Versions
- Open Discussion
- Contact Information
Software Updates

CVU + Calculation Check

- Cypress v5 will include a new feature named the Cypress Validation Utility + Calculation Check (CVU+)

- 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)

- CVU+ will supplement the existing certification program
  - Use of CVU+ is not currently a requirement of the program
Software Updates

CVU + Calculation Check – Features

- Enhanced verification of a Health Information Technology (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
  - CVU+ will test conformance with program specific requirements in the CMS Quality Reporting Document Architecture (QRDA) Implementation Guides
Software Updates

CVU + Calculation Check – Seeking Input

- Cypress plans to begin development of the CVU+ this fall for preliminary release in Spring 2019
  - Final release in Summer 2019 with Cypress v5
- Seeking input for features to be included with CVU+
- Continued discussion at future Tech Talks
Software Updates

Evolving eCQM Standards - Episode of Care and Proportion Measures (1 of 3)

- **Patient-based measures**
  - Evaluate the care of a patient and assign the patient to membership in one or more measure segments or populations. Most Eligible Professional/Eligible Clinician eCQMs are patient-based

- **Episode-of-care measures**
  - Evaluate the care during a patient-provider encounter and assign the episode of care to one or more measure population segments. All Eligible Hospital eCQMs and a few Eligible Professional/Eligible Clinician eCQMs are episode-of-care measures
**Software Updates**

**Evolving eCQM Standards - Episode of Care and Proportion Measures (2 of 3)**

- Previously, one needed to refer to the Electronic Clinical Quality Measure Logic and Implementation Guidance to determine whether a measure is a Patient-based or Episode-based.

<table>
<thead>
<tr>
<th>eCQM ID#</th>
<th>NQF #</th>
<th>Title</th>
<th>Type</th>
<th>Patient / Episode</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMS2v8</td>
<td>0418</td>
<td>Preventive Care and Screening: Screening for Depression and Follow-Up Plan</td>
<td>Proportion</td>
<td>Patient</td>
</tr>
<tr>
<td>CMS22v7</td>
<td>Not Applicable</td>
<td>Preventive Care and Screening: Screening for High Blood Pressure and Follow-Up Documented</td>
<td>Proportion</td>
<td>Patient</td>
</tr>
<tr>
<td>CMS50v7</td>
<td>Not Applicable</td>
<td>Closing the Referral Loop: Receipt of Specialist Report</td>
<td>Proportion</td>
<td>Patient</td>
</tr>
<tr>
<td>CMS52v7</td>
<td>0405</td>
<td>HIV/AIDS: Pneumocystis Jiroveci Pneumonia (PCP) Prophylaxis</td>
<td>Proportion</td>
<td>Patient</td>
</tr>
<tr>
<td>CMS56v7</td>
<td>Not Applicable</td>
<td>Functional Status Assessment for Total Hip Replacement</td>
<td>Proportion</td>
<td>Patient</td>
</tr>
<tr>
<td>CMS65v8</td>
<td>Not Applicable</td>
<td>Hypertension: Improvement in Blood Pressure</td>
<td>Proportion</td>
<td>Patient</td>
</tr>
<tr>
<td>CMS66v7</td>
<td>Not Applicable</td>
<td>Functional Status Assessment for Total Knee Replacement</td>
<td>Proportion</td>
<td>Patient</td>
</tr>
<tr>
<td>CMS68v8</td>
<td>0419</td>
<td>Documentation of Current Medications in the Medical Record</td>
<td>Proportion</td>
<td>Episode</td>
</tr>
</tbody>
</table>
In CQL logic based measures, one can also infer whether a measure is a Patient-based or Episode-based from the eCQM specification.

- **Patient-based measures**
  - Populations will always return a **true** or **false**

- **Episode-of-care measures**
  - Populations will always return an **array** of data elements that meet the population criteria.
Software Updates

Bugs addressed in 4.0.1 patch release

Cypress v4.0.1

The Cypress 4.0.1 patch is scheduled for released 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-1449)
- C4 problem filter not properly excluding patients without required diagnosis (CYPRESS-1480)
- Duplicate Patients have significantly different date of births, 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**

Details:
- Type: Bug/Issue
- Priority: Moderate
- Status: IN PROGRESS
- Resolution: Unresolved
- Labels: KnownBug4.0.0
- Contact Name: Judi Dorsey
- Contact Email: judid@medent.com

In Cypress v4.0.0, I find a specific patient (Z9 N BH Adult) appears to have had two 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 procedure date for part of the episode, not the other. Since there is no diagnosis requirement for this episode, I believe that the duplication is intended, and I would like to keep the original code set.
# 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 *will be supported alongside Cypress v4</td>
</tr>
<tr>
<td>V4.0.1</td>
<td>October 11, 2018</td>
<td>Support for the eCQMs for the 2019 Reporting/Performance Period Support for Clinical Quality Language (CQL) calculation</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 “Z1 BH Adult” updated for CMS128v6</td>
</tr>
<tr>
<td>2017.0.4</td>
<td>September 25, 2018</td>
<td>Cypress v3 only Errata update to fix ‘Download All Patients’ feature when 2017.0.3 and 2017.0.2 are installed simultaneously</td>
</tr>
</tbody>
</table>
OPEN DISCUSSION
Next Cypress Tech Talk

- Tuesday, January 15, 2019 at 1pm ET
- To join online, visit: https://meetings.cms.gov/orion/joinmeeting.do?MTID=98271705d4bcc4ad148cf1e39d5c7408
- 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

- 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