Agenda

- Software Updates
  - Cypress Validation Utility + Calculation Check (CVU+)
  - Cypress 5 Releases
  - CVU+ Demo
  - Recent Updates
- Recent Issues
- Cypress Versions
- Open Discussion
- Contact Information
Software Update

Cypress Validation Utility + Calculation Check (CVU+)

- Cypress v5 will include a new set of features called Cypress Validation Utility + Calculation Check (CVU+)
- CVU+ 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 the CVU+ is not currently a requirement of the program
**CVU+ Features**

Perform Tests using Developer-Generated test patients

- CVU+ supports developer-generated test patients, allowing vendors to supplement Cypress test patients with their own test patients to increase eCQM logic/code coverage.
  - Pre-certification tests will no longer be constrained to using Cypress generated tests patients
**CVU+ Features**

**Verify QRDA Export and eCQM Calculations**

- CVU+ performs and displays eCQM calculation for uploaded developer-generated test patients.
- eCQM calculations are displayed for all eCQMs where developer-generated test patients meet the IPP requirements.
**CVU+ Features**

**Analyze rigor of Developer-Generated test patients**

- CVU+ performs analysis on uploaded developer-generated test patients.

- **Statistics include:**
  - Measure Coverage
  - Logic Coverage
  - Valuesets used
  - Code Systems used
  - Data Element Types used

### Analysis of Patients

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td># Patients</td>
<td>7</td>
</tr>
<tr>
<td>Measure Coverage</td>
<td>37.3% (22 of 59)</td>
</tr>
<tr>
<td>Population Coverage</td>
<td>44.8% Missing Populations</td>
</tr>
<tr>
<td># Data Element Types</td>
<td>20</td>
</tr>
<tr>
<td># Valuesets Used</td>
<td>61</td>
</tr>
<tr>
<td>Valuesets Coverage</td>
<td>8.3%</td>
</tr>
<tr>
<td>Uncovered Valuesets</td>
<td>677 Uncovered Valuesets</td>
</tr>
<tr>
<td>Code System per Valueset Coverage</td>
<td>8.2%</td>
</tr>
<tr>
<td>Uncovered Code Systems in each Valueset</td>
<td>1076 Uncovered Code Systems</td>
</tr>
<tr>
<td>Average Percent Code Coverage per Valueset</td>
<td>3.0%</td>
</tr>
<tr>
<td>Logic Coverage</td>
<td>Logic Coverage Per Measure</td>
</tr>
<tr>
<td>Least Logic Coverage</td>
<td>CMS190v8 (9.4%)</td>
</tr>
<tr>
<td>Average Logic Coverage</td>
<td>44.2%</td>
</tr>
</tbody>
</table>
Software Update

Cypress 5 Releases

- Cypress v5 Alpha
  - Released May 23, 2019
  - Includes CVU+ features and Annual Update Measures posted May 13, 2019
    ▪ Posted on resource center: https://ecqi.healthit.gov/
    ▪ Available as a virtual machine (VM) download

- Cypress v5 Beta
  - June 20, 2019
  - Available as a VM download
  - Will be deployed to demo server: cypress.healthit.gov

- Cypress v5 Official Release
  - Late July 2019
Software Update
Future Releases

- [https://www.healthit.gov/cypress/futurerelease.html](https://www.healthit.gov/cypress/futurerelease.html)

Cypress v5 with CVU+

Currently under development, the CVU+ production release is scheduled for Summer 2019. An alpha release version is now available for [download](https://www.healthit.gov/cypress/futurerelease.html). Cypress v5 with CVU+ will include the following features:

**Cypress features**
- 51 Eligible Professional/Eligible Clinician eCOMs.
  - Including CMS771v1 (International Prostate Symptom Score (IPSS) or American Urological Association-Symptom Index (AUA-SI) Change 6-12 Months After Diagnosis of Benign Prostatic Hyperplasia)
- 8 Eligible Hospital/Critical Access Hospital eCOMs.

**CVU+ features**
- Testing against various Centers for Medicare & Medicaid Services (CMS) quality reporting programs
  - Support for implementation guides up to two years in advance of the reporting deadline
- Testing that better aligns with CMS quality reporting requirements
  - Ability to calculate across multiple measures at once
- Support for developer-generated (Bring Your Own) test patients
  - Evaluation of the rigor of a set of test patients

Software Update
CVU+ Demo
## Cypress Versions

### Version Table

<table>
<thead>
<tr>
<th>Version</th>
<th>Dates</th>
<th>Measures Supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>V4.0.3</td>
<td>May 2, 2019</td>
<td>Latest version supporting eCQMs for the 2019 Reporting/Performance Period and CQL. Fixes record sample and other 4.0.2 bugs.</td>
</tr>
<tr>
<td>V5.0.0-beta</td>
<td>June 20, 2019</td>
<td>Beta version supporting eCQMs for the 2020 Reporting/Performance Period and CQL.</td>
</tr>
</tbody>
</table>

### Bundle Version Table

<table>
<thead>
<tr>
<th>Bundle Version</th>
<th>Dates</th>
<th>Features</th>
</tr>
</thead>
</table>
| 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. |
| Cypress 5.0.0 Beta Bundle | June 20, 2019 | Cypress v5 only  
Beta version of CQL-based measures released in 2019 for the 2020 reporting year  
eCQM Value Sets as of 5/10/2019. |
OPEN DISCUSSION
Next Cypress Tech Talk

- Tuesday, July 30, 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 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://oncprojecttracking.healthit.gov/support/browse/CYPRESS