Agenda

- Software Updates
  - Cypress v5.4.0 Cures Patch Release
  - Cypress v6 Releases
  - Cypress 6 and Cures Features Demo
- Recent Issue
  - Cypress Known Issues Dashboard
- Cypress Versions
- Open Discussion
- Contact Information

*See the Glossary at the back for definitions of terms*
Software Updates
Cypress v5.4.0 Cures Patch Release

- A Cypress v5.4.0 patch release was on May 14, 2020

Cures Features
- Live demo on today’s Cypress Tech Talk
- Updates for the 21st Century Cures Interoperability Rule
- CMS Implementation Guide (IG) used to validate QRDA structure, including v1.2
  - QRDA-I updates from 3/13/2020
  - QRDA-I C3 validation only for EH measures; QRDA-III C3 validation only for EP/EC

De-duplication Features
- De-duplication updated to add more realism
- Addresses are randomized, but the same address is used for duplicate patients
- Birthdate changes in duplicate patients are rare and limited to changes in the day of the month

CVU+ Tests
- Provide HL7-only tests for full coverage of previous CVU features
Software Updates
Cures Features

- ONC Interoperability Rule released on March 9, 2020 to support the 21st Century Cures Act
- Cypress updates for C3 certification and schematron validation
  - CMS IG is used for validation and shows errors for CMS IG validation issues
  - Uses latest CMS schematron, updated on March 13, 2020
  - QRDA-I C3 validation only required for EH measures
  - QRDA-III C3 validation only required for EP/EC measures
  - Example, EP/EC measure with C3 certification will have no QRDA-I tests:

![Test the EHR system's ability to submit (C3) measure based data.]

There are no additional tests for this criteria.
### Software Updates

#### De-duplication Features

- **Address Changes**
  - Previously, Cypress created all patients with the same address
  - Cypress update creates patients with different addresses, where addresses will not be changed when duplicating patients

- **Birthdate Changes**
  - Previously, birthdate was often changed in duplicate patients to a random date in a range from the original patient birthdate
  - Updates make birthdate changes less common
  - Birthdate changes only update the *day* while keeping the month and year the same
# Software Updates
## CVU+ HL7 Tests

- **HL7-only tests provided as CVU+ functionality**
  - Previously, the Cypress Validation Utility provided simple validation with the HL7 schematron
  - Users have expressed continued interest in HL7 validation
  - HL7 Cat I and HL7 Cat III tests are both provided as options in CVU+


<table>
<thead>
<tr>
<th>Test Name</th>
<th>Quick Upload</th>
<th>Last Updated</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIPS_GROUP Test</td>
<td>🔄 start upload</td>
<td>🕒 6 minutes ago</td>
</tr>
<tr>
<td>MIPS_INDIV Test</td>
<td>🔄 start upload</td>
<td>🕒 6 minutes ago</td>
</tr>
<tr>
<td>MIPS_VIRTUALGROUP Test</td>
<td>🔄 start upload</td>
<td>🕒 6 minutes ago</td>
</tr>
<tr>
<td>CPCPLUS Test</td>
<td>🔄 start upload</td>
<td>🕒 6 minutes ago</td>
</tr>
<tr>
<td><strong>HL7 Cat I Test</strong></td>
<td>🔄 retry upload</td>
<td>🕒 4 minutes ago</td>
</tr>
<tr>
<td><strong>HL7 Cat III Test</strong></td>
<td>🔄 start upload</td>
<td>🕒 6 minutes ago</td>
</tr>
</tbody>
</table>
Software Updates
Upcoming Cypress v6 Releases

- Cypress v6 Alpha release anticipated May 21, 2020
  - HL7 QRDA category 1 R5.2
  - 2021 CMS QRDA Implementation Guide for Hospital Quality Reporting
  - Initial support for 2021 reporting/performance period eCQMs
    - 9 EH/CAH eCQMs
    - 47 EP/EC eCQMs
    - 1 Hybrid eCQM (CMS529)

- Final Cypress v6 release anticipated late July 2020
Cypress 6 and Cures Features Demo

- Demo
Recent Issue
Cypress Known Issues Dashboard

- [https://oncprojecttracking.healthit.gov/support/secure/Dashboard.jspa?selectPageId=18000](https://oncprojecttracking.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

<table>
<thead>
<tr>
<th>Version</th>
<th>Dates</th>
<th>Measures Supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>V4.0.4*</td>
<td>October 3, 2019</td>
<td>Latest version supporting eCQMs for the 2019 Reporting/Performance Period and CQL. Fixes QRDA and other 4.0.3 bugs.</td>
</tr>
<tr>
<td>V5.3.0</td>
<td>March 12, 2020</td>
<td>Latest version supporting eCQMs for the 2020 Reporting/Performance Period and CQL. Contains feature improvements and fixes for bugs found in Cypress v5.2.0.</td>
</tr>
<tr>
<td>V5.4.0</td>
<td>May 14, 2020</td>
<td>Support for certification changes due to regulation updates in the Cures Interoperability Rule. Adds more de-duplication realism.</td>
</tr>
<tr>
<td>V6 Alpha</td>
<td>Anticipated May 21, 2020</td>
<td>Initial support for QRDA category 1 R5.2 and 2021 reporting/performance period eCQMs.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bundle Version</th>
<th>Dates</th>
<th>Features</th>
</tr>
</thead>
</table>

*Cypress v4 and the 2018 bundle are moving into retirement due to the end of the 2019 reporting period. Reporting end dates: April 30 for EP (source: [QPP](https://qpp.cms.gov)). May 1st for EH (source: [QualityNet](https://qualitynet.org)).
OPEN DISCUSSION
Next Cypress Tech Talk

- Tuesday, June 2, 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
Glossary

- CQL – Clinical Quality Language
- CVU – Cypress Validation Utility
- CVU+ – Cypress Validation Utility Plus Calculation Check
- EC – Eligible Clinician
- eCQM – Electronic Clinical Quality Measure
- EH – Eligible Hospital
- EP – Eligible Professional
- HL7 – Health Level Seven International
- IG – Implementation Guide
- QPP – Quality Payment Program
- QRDA – Quality Reporting Document Architecture