

# Cypress™

## Cypress Tech Talk

August 25, 2020



**MITRE**

The Office of the National Coordinator for  
Health Information Technology



**CMS**  
CENTERS FOR MEDICARE & MEDICAID SERVICES

# Agenda

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- Software Updates
  - Cypress v6 Release
    - Community Suggested Features and Bug Fixes
  - Bundle Updates
- Recent Issue
  - Cypress Known Issues Dashboard
- Cypress Versions
- Announcements
- Open Discussion
- Contact Information

\*See the Glossary at the back for definitions of terms

## *Software Updates*

# Cypress v6 Release

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- **Final Cypress v6 release July 23, 2020**
  - HL7 QRDA Category 1 R5.2
  - 2021 CMS QRDA I Implementation Guide for Hospital Quality Reporting
  - 2021 CMS QRDA III Implementation Guide for Eligible Clinicians and Eligible Professionals
  - Support for 2021 reporting/performance period eCQMs
    - 9 EH/CAH eCQMs
    - 47 EP/EC eCQMs
    - 1 Hybrid eCQM (CMS529)
  - Continued and improved support for CVU+ testing

## Software Updates

# Community Suggested Features and Bug Fixes

- Calculation and import updates:
  - [CYPRESS-1687](#): Bundle updates to avoid calculation discrepancies in contiguous US time zones
  - [CYPRESS-2058](#): Unit of Measure validation for nullFlavor result
  - [CYPRESS-2015](#): Warnings for improper QRDA-I file elements, especially time interval discrepancies
- User experience improvements:
  - [CYPRESS-1374](#): Include all warnings in report as opposed to just errors
  - [CYPRESS-1985](#): Fixed master patient filter so that it does not timeout
  - [CYPRESS-2040](#): Update test result dropdown to fix inaccurate times
- HTML improvements:
  - [CYPRESS-1958](#): Export all missing attributes in the HTML patient representation
  - [CYPRESS-2034](#): Match patient IDs between QRDA and HTML patient files
- CVU+ and/or vendor patient updates:
  - [CYPRESS-1961](#) and [CYPRESS-2037](#): Sorting quantities fixed to sort by value rather than sorting as a string
  - [CYPRESS-1980](#): Select All option for vendor patient page
  - [CYPRESS-2042](#): Clarify instructions for HL7 CVU+ tests
  - [CYPRESS-2051](#): Fix calculation issue for performance rates with denominator 0
- Features also included in latest v5:
  - ATL Request: Random address used for realistic test patient deduplication
  - Google Group Request: Record Sample tests show 'incomplete' instead of 'failing' status (also included in latest v5)
  - [CYPRESS-1907](#): Improved color contrast (also included in latest v5)

# Software Updates

## Bundle Updates

### ■ Bundle update to 2020.0.3

- Bundle deprecation can be used to replace originally published 2020.0.1 bundle with 2020.0.3
- New bundle is available to download from the demo server

### ■ Unit of Measure update

- Measure CMS9v8 previously expected unit “weeks”
- Now CMS9v9 uses “wk” – the appropriate UCUM unit
- Updates in units for 11 patients

`<value xsi:type="PQ" value="38.0" unit="weeks"/>` → `<value xsi:type="PQ" value="38.0" unit="wk"/>`

### ■ Timing issues update

- Patients: 3 N 1 STROKE, 3 N 2 STROKE
- High time before low time, changed to single effective time

`<effectiveTime><low value='20190421140000' /><high value='20190420140000' /></effectiveTime>`



`<effectiveTime value='20190421140000' />`

## Recent Issue

# Cypress Known Issues Dashboard

- <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 Known Issues			
<p>Cypress Known Issues</p> <p>Below are tables that list known issues for the most recent Cypress Versions</p> <p>Release Notes for Cypress Versions can be found <a href="#">here</a></p>			
Filter Results: Cypress Known Bugs 5.2.0			
Summary	2020 Performance Period EP/EC eCQMs	2020 Reporting Period EH eCQMs	Solution
CMS 145 Denominator Issue			...
QRDA III giving C3 Execution: An internal error occurred			
QRDA-I Validation Error			
1-3 of 3			

# Cypress Versions

Version	Dates	Measures Supported
<b>V5.4.1</b>	<b>June 4, 2020</b>	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. Support for 2015 Certification Edition OR 2015 Certification Cures Updated Edition.
<b>V6.0.0</b>	<b>July 23, 2020</b>	Support for QRDA Category 1 R5.2, Updated CMS IGs, and 2021 reporting/performance period eCQMs.

Bundle Version	Dates	Features
<b>2019.1.1</b>	<b>December 19, 2019</b>	<b>Cypress v5 only</b> CQL-based measures released in 2019 for the 2020 reporting year. Removed retired measures as announced on November 19, 2019.
<b>2020.0.1</b>	<b>July 23, 2020</b>	<b>Cypress v6 only</b> CQL-based measures released in 2020 for the 2021 reporting year.
<b>2020.0.3</b>	<b>August 6, 2020</b>	<b>Cypress v6 only</b> CQL-based measures released in 2020 for the 2021 reporting year. Updated patients to use correct 'wk' unit and updated two patient effective times.

\*Cypress v4 and the 2018 bundle have been retired due to the end of the 2019 reporting period.

Reporting end dates: April 30, 2020 for EP (source: [QPP](#)). May 1, 2020 for EH (source: [QualityNet](#)).

# Announcements

- **Expression Logical Model (ELM) Issue Impacting eCQMs for the 2020 Performance Period ([eCQI Announcement](#))**
  - Issue with how the ELM handles missing timing values during the evaluation of measure logic
- **Impacted Measures**
  - CMS128v8 Anti-depressant Medication Management
  - CMS146v8 Appropriate Testing for Children with Pharyngitis
  - CMS56v8 Functional Status Assessment for Total Hip Replacement
- **Cypress Update**
  - 2019 bundle update with updated ELM planned for September
  - Does not impact certification, but may impact CVU+ calculations



# OPEN DISCUSSION

# Next Cypress Tech Talk

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- Tuesday, September 8, 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

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- **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](mailto:project-cypress-talk@googlegroups.com)
- **Report bugs and issues to the Cypress JIRA at**
  - <https://oncprojecttracking.healthit.gov/support/browse/CYPRESS>

# Glossary

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- **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**