

Cypress™

Cypress Tech Talk

September 8, 2020



MITRE

The Office of the National Coordinator for
Health Information Technology



Agenda

- Software Updates
 - Cypress v6 Release
 - Community Suggested Features and Bug Fixes
 - Bundle Updates
 - ELM Updates
 - Telehealth Guidance
- 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

- **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' />`

Software Updates

ELM Updates

- **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
 - Targeting September 17, 2020 for 2019.2.0 release

Software Updates

Telehealth Guidance

- For CMS22v8, CMS69v8, and CMS157v8, telehealth encounters are not appropriate for the purpose of the measure
- Full guidance at: <https://ecqi.healthit.gov/sites/default/files/2020-eCQM-Telehealth-Guidance-Document.pdf>

TABLE 2. NOT ELIGIBLE FOR TELEHEALTH ENCOUNTER^{b,c} ELECTRONIC CLINICAL QUALITY MEASURES FOR ELIGIBLE PROFESSIONALS AND ELIGIBLE CLINICIANS: 2020 REPORTING

CMS eCQM ID	MIPS Quality ID	Measure Title	Reason Not Eligible for Telehealth
CMS22v8 ^b	317	Preventive Care and Screening: Screening for High Blood Pressure and Follow-Up Documented	Screening measure requires therapy, treatment, or assessment that cannot be conducted via telehealth
CMS69v8 ^b	128	Preventive Care and Screening: Body Mass Index (BMI) Screening and Follow-Up Plan	Screening measure requires therapy, treatment, or assessment that cannot be conducted via telehealth
CMS157v8 ^b	143	Oncology: Medical and Radiation - Pain Intensity Quantified	Measure guidance specifies face-to-face encounter is required
CMS129v9 ^c	102	Prostate Cancer: Avoidance of Overuse of Bone Scan for Staging Low Risk Prostate Cancer Patients	Measure does not contain telehealth-eligible codes and does not require an encounter during the measurement period
CMS133v8 ^c	191	Cataracts: 20/40 or Better Visual Acuity within 90 Days Following Cataract Surgery	Measure does not contain telehealth-eligible codes and does not require an encounter during the measurement period

Software Updates

Telehealth Modifiers

- Telehealth modifiers may be included in QRDA-I as “qualifier” elements
- These elements modify the existing telehealth-eligible codes
- For measures that aren’t eligible for telehealth modifiers may nullify existing encounters that otherwise have an appropriate code
- Modifier/Qualifier QRDA-I Example:

```

    <code code="99396" displayName="Periodic comprehensive preventive medicine
reevaluation and management of an individual including an age and gender appropriate
history examination, counseling/anticipatory guidance/risk factor reduction
interventions, and the ordering of laboratory/diagnostic procedures, established
patient; 40-64 years" codeSystem="2.16.840.1.113883.6.12" codeSystemName="CPT">
      <qualifier>
        <name code="VR" displayName="Virtual" codeSystem="2.16.840.1.113883.5.4"
codeSystemName="ActCode"/>
        <value code="95" displayName="Synchronous Telemedicine Service Rendered
Via a Real-Time Interactive Audio and Video Telecommunications System"
codeSystem="2.16.840.1.113883.6.12" codeSystemName="CPT"/>
      </qualifier>
    </code>

```


Software Updates

CVU+ Updates for Telehealth

- CVU+ removes any telehealth encounters for measures where telehealth is not applicable, thus nullifying the ineligible encounters
- Applicable only for HL7 CAT I Test
- CVU+ shows warning for telehealth encounters not used for calculation
- Targeting September 17, 2020 for Cypress v5.4.2 release
 - Corresponding v6 update will be made available this Fall

Results Most Recent - September 2, 2020 3:39pm (passing) Refresh View

✓ Passed

Test Date: September 2, 2020 11:40am
Files Uploaded: Archive.zip
Total Test Executions: 1

Warnings

34_Heather_Baldwin.xml 40_Jeanette_Morrison.xml

40_Jeanette_Morrison.xml

Measure Calculations

	IPOP	DENOM	NUMER	DENEX	DENEXCEP
CMS22v8 - PopulationSet 1	●	●	●	○	○
CMS68v9 - PopulationSet 1	2	2	○	○	○

Calculation
Change

Results Most Recent - September 2, 2020 3:40pm (passing) Refresh View

✓ Passed

Test Date: September 2, 2020 11:40am
Files Uploaded: Archive.zip
Total Test Executions: 2

Warnings

40_Jeanette_Morrison.xml - 1 warnings

34_Heather_Baldwin.xml

Measure Calculations

	IPOP	DENOM	NUMER	DENEX	DENEXCEP
CMS22v8 - PopulationSet 1	●	●	○	○	○
CMS68v9 - PopulationSet 1	2	2	○	○	○

View Uploaded XML with Errors

QRDA (0) Reporting (0) Submission (0) CMS Warnings (0) Other Warnings (1)

Warning message Go To in XML

Telehealth encounter 99213 with modifier 95 not used in calculation for eCQMs (CMS22v8) that are not eligible for telehealth. [jump to error](#)

Software Updates

CVU+ Updates for Telehealth

- Cypress warning in QRDA XML

```

< entry >
  < act classCode = "ACT" moodCode = "EVN" >
    <!--Encounter performed Act -->
    < templateId extension = "2017-08-01" root =
      "2.16.840.1.113883.10.20.24.3.133" />
    < code code = "ENC" codeSystem = "2.16.840.1.113883.5.6" codeSystemName = "Encounter" />
    < entryRelationship typeCode = "SUBJ" >
      < encounter classCode = "ENC" moodCode = "EVN" >
        <!-- Encounter activities template -->
        < templateId extension = "2015-08-01" root = "2.16.840.1.113883.10.20.24.3.133" />
        <!-- Encounter performed template -->
        < templateId extension = "2017-08-01" root = "2.16.840.1.113883.10.20.24.3.23" />
        < id extension = "5f451554c1c3884aa0bff8a7" root = "1.3.6.1.4.1.115" />
        <!-- QDM Attribute: Code -->
        < code code = "99213" codeSystem = "2.16.840.1.113883.6.12" codeSystemName =
          "CPT" >
          < qualifier >
            < name code = "VR" displayName = "Virtual" codeSystem =
              "2.16.840.1.113883.5.4" codeSystemName = "ActionCode" />
            < value code = "95" displayName = "Synchronous Telemedicine Service Rendered
              Via a Real-Time Interactive Audio and Video Telecommunications System"
              codeSystem = "2.16.840.1.113883.6.12" codeSystemName = "CPT" />
          </qualifier>
        </code>
      </encounter>
    </entryRelationship>
  </act>
</entry>

```

hide error (1)

Execution Error (1)

Telehealth encounter 99213 with modifier 95 not used in calculation for eQMs (CMS22v8) that are not eligible for telehealth.

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 here</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
V5.4.1	June 4, 2020	Contains feature improvements and fixes for bugs found in Cypress v5.2.0. Support for 2015 Certification Edition OR 2015 Certification Cures Updated Edition.
<i>V5.4.2</i>	<i>Anticipated September 17, 2020</i>	Latest version supporting eCQMs for the 2020 Reporting/Performance Period and CQL. Contains updates to support telehealth checking
V6.0.0	July 23, 2020	Support for QRDA Category 1 R5.2, Updated CMS IGs, and 2021 reporting/performance period eCQMs.

Bundle Version	Dates	Features
2019.1.1	December 19, 2019	Cypress v5 only CQL-based measures released in 2019 for the 2020 reporting year. Removed retired measures as announced on November 19, 2019.
<i>2019.2.0</i>	<i>Anticipated September 17, 2020</i>	Cypress v5 only CQL-based measures released in 2019 for the 2020 reporting year. Contains updates for ELM issues found in CMS128v8, CMS146v8, and CMS56v8.
2020.0.3	August 6, 2020	Cypress v6 only CQL-based measures released in 2020 for the 2021 reporting year. Updated patients to use correct 'wk' unit and updated two patient effective times.

Announcements

- **Clarification of requirement for new eCQM certification**
 - ONC FAQ, Q42: <https://www.healthit.gov/faq/42-question-06-13-042-1-0>
 - Question 1: *When new **versions** of CQM specifications are released by CMS, do EHR technology developers need to seek retesting/recertification of their certified Complete EHR or certified EHR Module in order to keep its certification valid?*
 - ONC/CMS Response: No. [...]
 - Question 2: *As an EHR technology developer, if my EHR technology “Product A” is, for example, already certified to the “December 2012” CQM specifications, can I update it to include CMS’s **updated** “June 2013” specifications without seeking retesting/recertification?*
 - ONC/CMS Response: Yes, unless Product A is relabeled. [...]
 - Clarification: For eCQMs that are new (rather than updated with a new version), an initial certification is required to list that eCQM as certified to

OPEN DISCUSSION

Next Cypress Tech Talk

- Tuesday, September 22, 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://oncprojecttracking.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**