

Cypress™

Cypress Tech Talk

October 17, 2023



MITRE

The Office of the National Coordinator for
Health Information Technology



Agenda

- Software Updates
 - Cypress 7.2.0
- 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 7.2.0

■ Cypress 7.2.0 patch was released on 9/14/23

- Supports the [updated](#) CMS Implementation Guides for Quality Reporting Document Architecture Category I - Implementation Guide for 2023 and 2024.
 - Removed CMS_0085 and CMS_0086.
 - CMS program name for hybrid measure/CCDE submissions must be HQR_IQR.
 - Files containing hybrid measure/CCDE submissions and eCQM cannot be submitted within the same batch.
 - Added back the previous CMS_0084.
 - QRDA files for hybrid measure/CCDE submissions must contain a HICN or MBI.
 - Added new validation rule CMS_0089
 - CMS program name for inpatient Hybrid measures/CCDE submissions must be HQR_IQR. CMS program name for inpatient eCQM submissions must be HQR_IQR, HQR_IQR_PI or HQR_PI. CMS program name for outpatient eCQM submissions must be HQR_OQR.
- CVU+ validations added for formatting of CMS EHR Certification IDs. ([CYPRESS-2571](#))
- Capped length of ids generated by Cypress to 32 characters. ([CYPRESS-2559](#))
- Fixed issue with C1 Record Sample tests with presentOnAdmissionIndicator attributes. ([CYPRESS-2563](#))

CVU+ validations added for formatting of CMS EHR Certification IDs. (CYPRESS-2571)

- **The CMS Implementation Guide enforces that**
 - CMS EHR Certification ID must be 15 alpha numeric characters in length.
 - The EHR system needs to be certified to 2015 Edition Cures Update for CY2024/PY2026. The CMS EHR Certification ID must contain “15C” in the third, fourth, and fifth places.
- These validations will be enforced for CVU+ program tests.

Errors and Warnings

0_Ann_Wilkins.xml - 2 errors and warnings

Measure Calculations

	IPOP	DENOM	NUMER	NUMEX	DENEX	DENEXCEP
CMS1028v2 - PopulationSet 1	1	1	1			
View Risk Variables						
CMS1028v2 - PopulationSet 1 Stratifica...	1	1	1			
View Risk Variables						

[View Uploaded XML with Errors](#)

Errors (2) Warnings (0)

Error message [Go To in XML](#)

The EHR system needs to be certified to 2015 Edition Cures Update for CY2024/PY2026. The CMS EHR Certification ID must contain “15C” in the third, fourth, and fifth places.

CMS EHR Certification ID must be 15 alpha numeric characters in length.

Cap length of Ids generated by Cypress (CYPRESS-2559)

- Ids generated to preserve uniqueness between duplicated patients could be exceedingly long (e.g., 108 characters)
- Ids will now be capped at 32 characters.

```

</entry>
<entry>
  <act classCode="ACT" moodCode="RQ0" negationInd="true">
    <!-- Conforms to C-CDA R2 Planned Act (V2) template -->
    <templateId root="2.16.840.1.113883.10.20.22.4.39" extension="2014-06-09"/>
    <!-- Intervention Order (V4) -->
    <templateId root="2.16.840.1.113883.10.20.24.3.31" extension="2021-08-01"/>
    <id root="1.3.6.1.4.1.115" extension="
363462313534313431643431633830333866333932323430322e31362e3834302e312e3131333838332e332e3630302e312e31353238"/>
    <code nullFlavor="NA" sdtc:setValue="2.16.840.1.113883.3.600.1.1528"/>
    <text>Follow Up for Above Normal BMI</text>
    <statusCode code="active"/>
    <!-- QDM Attribute: Author dateTime -->
    <author>
      <templateId root="2.16.840.1.113883.10.20.24.3.155" extension="2019-12-01"/>
      <time value="20230317083000"/>
      <assignedAuthor>
        <id nullFlavor="NA"/>
      </assignedAuthor>
    </author>
    <!-- QDM Attribute: Negation Rationale -->
    <entryRelationship typeCode="RSON">
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.24.3.88" extension="2017-08-01"/>
        <code code="77301-0" codeSystem="2.16.840.1.113883.6.1" displayName="reason" codeSystemName="LOINC"/>
        <value code="183932001" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMEDCT" xsi:type="CD"/>
      </observation>
    </entryRelationship>
  </act>
</entry>

```

C1 Record Sample tests with presentOnAdmissionIndicator attributes (CYPRESS-2563)

- C1 Record Sample tests where a user was expected to enter a present on admission indicator (e.g., for CMS1028) could not be passed.

CMS1028v2 Patients with severe obstetric complications which occur during the inpatient delivery hospitalization

Validated in QRDA	Data Criteria	Section	Required Attributes	Value Set(s)	Recorded Code/Attribute Value
	QDM::EncounterPerformed	Valuesets		Encounter Inpatient 2.16.840.1.113883.3.666.5.307	✓ Code 32485007
		Attributes	diagnoses	Present on Admission is No or Unable To Determine 2.16.840.1.113762.1.4.1029.370	✓ Attribute code N
	QDM::ProcedurePerformed	Valuesets		Severe Maternal Morbidity Procedures 2.16.840.1.113762.1.4.1029.256 Respiratory Support Procedures Related to COVID 19 2.16.840.1.113762.1.4.1029.379 Delivery Procedures 2.16.840.1.113762.1.4.1045.59 Blood Transfusion 2.16.840.1.113762.1.4.1029.213	✓ Code OB110F4
		Attributes	relevantDatetime		✓ Recorded result 9/18/2023
	QDM::PatientCharacteristicSex	Valuesets		ONC Administrative Sex 2.16.840.1.113762.1.4.1	✓ Code F
		Attributes			
	QDM::PatientCharacteristicPayer	Valuesets		Payer 2.16.840.1.114222.4.11.3591	✓ Code 1
		Attributes			

Save

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

Filter Results: Cypress Known Bugs 7.0.2			
Summary	2023 Performance Period EC eCQMs	2023 Reporting Period EH/CAH eCQMs	Solution
CQM129v11 - PSA score of 0 not qualifying for denominator			
"undefined method `collect' for nil:NilClass" Error when creating CVU+ product for CMS69v10	CMS69v11		see possible workaround below
Error of CMS_0084 encountered while testing Hybrid Measure	The error "CMS_0084 - QRDA files for hybrid measure/CCDE submissions must contain a HICN or MBI" should be treated as a Warning and not an Error.		
1-3 of 3			

Cypress Versions

Version	Dates	Release Note
V7.0.6	May 18, 2023	Relaxed telecom validation
V7.1.0	June 22, 2023	Support for the 2022, 2023, 2024 reporting/performance period
V7.1.1	July 27, 2023	Additional Support for the 2024 CMS Implementation Guides for QRDA Category III
V7.2.0	September 14, 2023	Support for the 2023/2024 CMS Implementation Guides for QRDA Category I released on 8/31/23

Bundle Version	Dates	Features
2022.1.1	October 20, 2022	Removed cross-walking codes impacting CMS334
2023.0.0	June 22, 2023	Measures and patients released in 2022 for the 2023 reporting year.

OPEN DISCUSSION

Next Cypress Tech Talk

- Tuesday, November 14, 2023 at 1pm ET
- To join online, visit: <https://mitre.zoomgov.com/j/1605680758>
- To join via phone, dial: 1-551-285-1373
- Meeting Number: 160 568 0758
- 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

- **API – Application Programming Interface**
- **CCDE – Core Clinical Data Elements**
- **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**
- **UMLS – Unified Medical Language System**