Cypress[™]

Cypress Tech Talk

May 31, 2022



















Agenda

- Software Updates
 - Cypress 7.0.0
 - eCQM Specifications for 2023 Reporting/Performance Period
 - Cypress 6.3.0
- 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 7.0.0 (2023 Annual Update)

Cypress 7.0.0

- For the 2023 Reporting and Performance Period
- Release will be 2022 and 2023 compatible
- 2022 bundle (for the 2023 reporting period) can be loaded alongside the the 2021 bundle (for the 2022 reporting period)

Release Schedule

- Release Candidate was made available as a VM (Virtual Machine) May 19, 2022
- Final Release will be available in all release formats June 23, 2022
 - Note: There will not be an upgrade path from Cypress v6 to Cypress v7

Software Updates

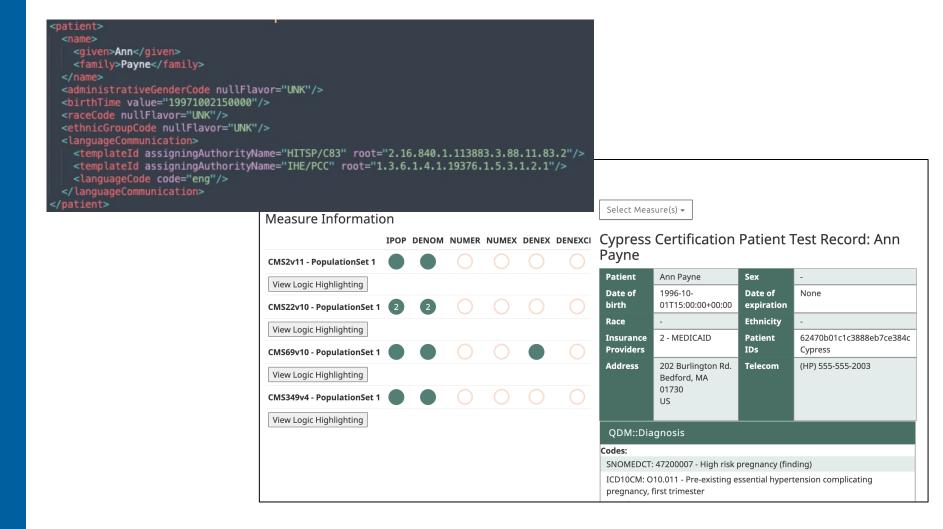
eCQM Specifications for 2023 Reporting/Performance Period

- On May 5, 2022, CMS posted the eCQM specifications for the 2023 reporting/performance period to the eCQI Resource Center.
 - 6 new eCQMs have been included
- 49 Eligible Clinician eCQMs
 - CMS951v1 (Kidney Health Evaluation)
- 11 Eligible Hospital / Critical Access Hospital eCQMs
- 4 Pre-rulemaking eCQMs
 - CMS334v4 (Cesarean Birth)
 - CMS819v1 (Global Malnutrition Composite Score)
 - CMS986v1 (Hospital Harm Opioid-Related Adverse Events)
 - CMS1028v1 (Severe Obstetric Complications)
- 2 Hybrid eCQMs
- 1 Outpatient Quality Reporting eCQMs
 - CMS996v3 (Appropriate Treatment for ST-Segment Elevation Myocardial Infarction (STEMI) Patients in the Emergency Department (ED))

Cypress 6.3.0

- Released on May 5th 2022.
- Supports testing with the 2021 Bundle for the 2022 Reporting Period
- Includes all feature improvements and bug fixes to be included in Cypress v7:
 - Allow for import of Vendor Patients without demographics specified (Cypress-2351)
 - Tailor CVU+ measure warnings to selected program (<u>Cypress-2348</u>)
 - Align Vendor Patient totals (<u>Cypress-2346</u>)
 - Support verification of multiple NPI/TIN combinations in CVU+ (Cypress-2345)
 - Improve calculations with negated valuesets (<u>Cypress-2342</u>)
 - Cypress API enhancements (<u>Cypress-2319</u>)
 - Display Core Clinical Data Elements for patients with multiple episodes of care (<u>Cypress-2301</u>)
 - Provide notification for CVU+/Vendor Patient uploads when QRDA files are missing in zip file
 - Provide sorting/pagination for user list
 - Provide indicator in Report when all tests are passing
 - Autofill Direct Reference Codes for C1 Record Sample Tests
- Note: will not support testing with the 2022 Bundle for the 2023 Reporting Period

Allow for import of Vendor Patients without demographics specified

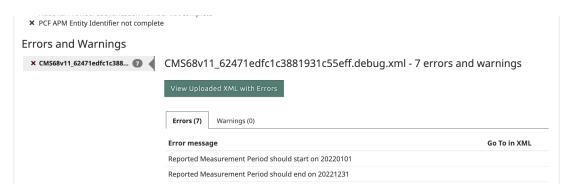


Tailor CVU+ measure warnings to selected program

HL7 QRDA III Test would warn that measure ids are missing for CMS111 and CMS66

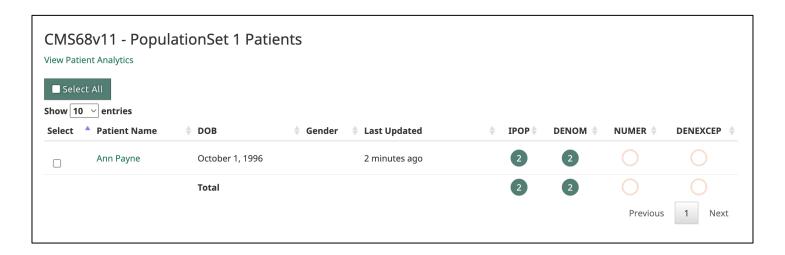


 Since CMS111 and CMS66 are not part of the PCF program, those warnings would not be reported for the CVU+ PCF test



Align Vendor Patient totals



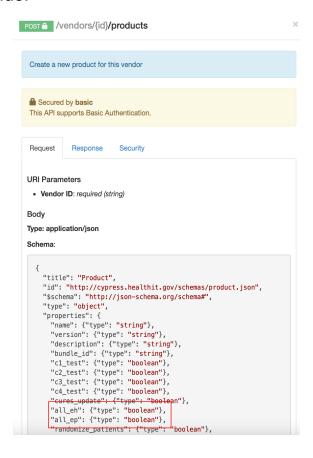


Support verification of multiple NPI/TIN combinations in CVU+

Validated in QRDA	Data Criteria	Description	CMS IG Conformance Statement Reference	Recorded Value in Health IT
	CMS EHR Certification ID	For PCF, all QRDA III files must include a CMS EHR Certification ID. Nulls will not be allowed.	(CONF:CMS_85)	
✓ (_62470cb1c1c3889374bdeb24.debug.xml)	Tax Identification Number	For PCF: it must contain at least one performer, each performer contains one TIN and one NPI	(CONF:3338-18190)	123456789,987654321
	National Provider Identification number	For PCF: it must contain at least one performer, each performer contains one TIN and one NPI	(CONF:3338-18247)	
	PCF APM Entity Identifier	This is the PCF APM Entity Identifier assigned to the PCF practice site.	(CONF:CMS_101)	
Save				

Cypress API enhancements

1) A user can specify "All EP" or "All EH" instead of providing an array of all the EP/EH measure ids when creating a new vendor



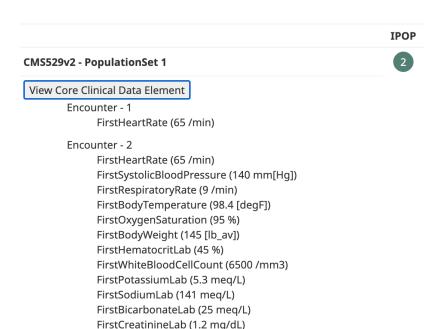
2) Product Test details now include the provider details for the specific test

```
<name>Functional Status Assessment for Total Hip Replacement/name>
 <cms id>CMS56v10</cms id>
 <measure_id>2C928085-75AD-6D20-0175-AE82F4DE02DB</measure_id>
 <type>measure</type>
 <state>readv</state>
 <created at>2022-03-28 16:50:15 UTC</created at>
▼<provider>
   <tin>032060001</tin>
   <npi>1842091252</npi>
   <ccn>273344</ccn>
   <name>Zachary Sutton</name>
 </provider>
 <link rel="self" href="/products/6241e747c1c3884ee8f0fdaa/product tests/6241e747c1c3884ee8f0fdab"/>
 <link rel="tasks" href="/product tests/6241e747c1c3884ee8f0fdab/tasks"/>
 <link rel="patients" href="/product tests/6241e747c1c3884ee8f0fdab/patients"/>
</measure test>
```

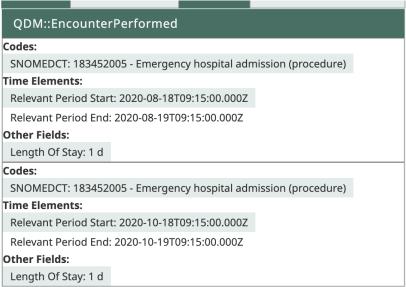
3) Product Details shows whether the test is for the 21st Century Cures Update

```
▼oduct>
  <name>Test Product</name>
  <version/>
  <description/>
  <cl test>true</cl test>
  <c2_test>true</c2_test>
  <c3_test>true</c3_test>
  <c4 test>false</c4 test>
  <cures update>true</cures update>
  <randomize_patients>true</randomize_patients>
  <duplicate_patients>true</duplicate_patients>
    <measure id>2C928085-75AD-6D20-0175-AE82F4DE02DB</measure id>
    <measure id>2C928084-7545-FE85-0175-56D4788E0834/measure id>
    <measure_id>2C928083-786E-690D-0178-7090965F028D</measure_id>
  <created at>2022-03-28 16:50:15 UTC</created at>
  <updated at>2022-03-28 16:51:47 UTC</updated at>
  <link rel="self" href="/vendors/6241e714c1c3884ee8f0fda7/products/6241e747c1c3884ee8f0fdaa"/>
  <link rel="product_tests" href="/products/624le747clc3884ee8f0fdaa/product_tests"/>
  <link rel="patients" href="/vendors/6241e714c1c3884ee8f0fda7/products/6241e747c1c3884ee8f0fdaa/patients"/>
 </product>
```

Display Core Clinical Data Elements for patients with multiple episodes of care

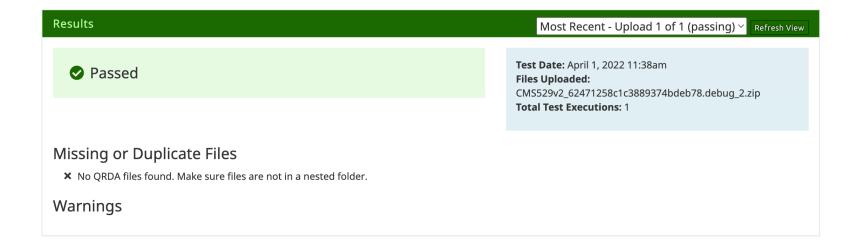


FirstGlucoseLab (135 mg/dL)

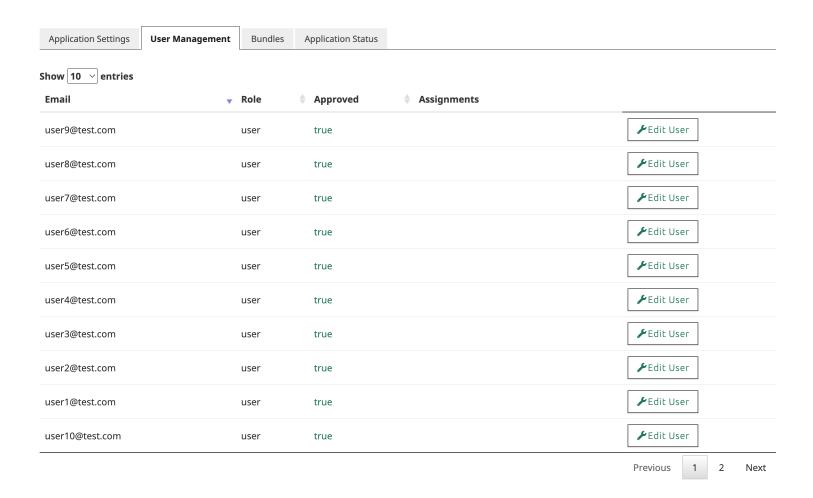


QDM::LaboratoryTestPerformed

Provide notification for CVU+/Vendor Patient 12 uploads when QRDA files are missing in zip file



Provide sorting/pagination for user list



Provide indicator in Report when all tests are passing



CMS133v10 Percentage of cataract surgeries for patients aged 18 and older with a diagnosis of uncomplicated cataract and no significant ocular conditions impacting the visual outcome of surgery and had best-corrected visual acuity of 20/40 or better (distance or near) achieved in the operative eye within 90 days following the cataract surgery

	Description	Attribute
✓	Physical Exam, Performed: BestCorrectedVisualAcuityExamUsingSnellenChart	result
✓	Procedure, Performed: CataractSurgery	relevantPeriod
✓	Patient Characteristic Sex: ONCAdministrativeSex	
✓	Patient Characteristic Birthdate: Birth date	birthDatetime

All C1 Measure Tests passing without errors or warnings

All C4 Filtering tests passing without errors or warnings

```
C2 - Import and Calculate

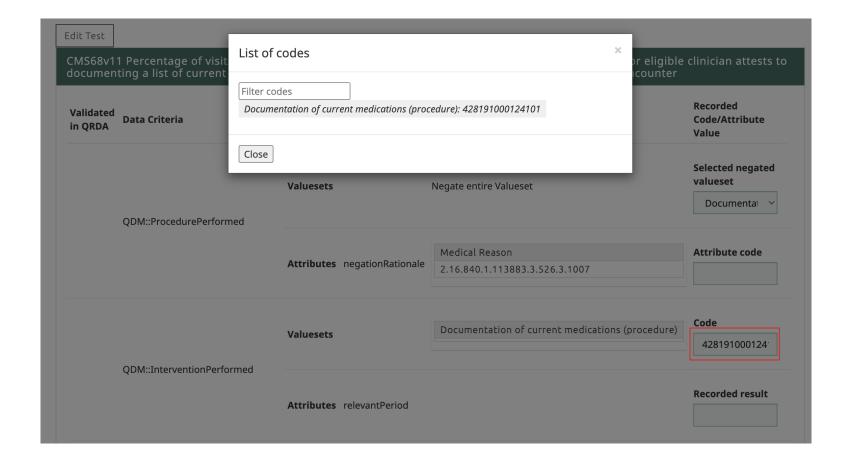
All C2 Measure Tests passing without errors or warnings

C3 - Submission

All C3 Measure Tests passing without errors or warnings

C4 - Filtering
```

Autofill Direct Reference Codes for C1 Record Sample Tests



Recent Issue

Cypress Known Issues Dashboard

- https://oncprojectracking.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

Summary	2022 Performance Period EP/EC eCQMs	2022 Reporting Period EH/CAH eCQMs	Solution
QDM::InterventionPerformed failing for Certification C1 Record Sample for some measures in 6.2.2			A Cypress 6.2.2.1 patch (https://www.healthit.gov/cypress/release.html#6.2.2.1) has been made available to address this issue. It can be applied to any version of Cypress v6.
Cypress 6.2.2 Introduces author templateld restrictions but provides malformed documents			A Cypress 6.2.2.1 patch (https://www.healthit.gov/cypress/release.html#6.2.2.1) has been made available to address this issue. It can be applied to any version of Cypress v6.
[Cypress 6.2.0] Full Test Deck Download Fails After Updating To 6.2.0			Re-running the update script should fix this issue. https://github.com/projectcypress/cypress/wiki/Cypress-6.x- Upgrade-Instructions

Cypress Versions

Version	Dates	Measures Supported
V6.2.2	September 23, 2021	Full support for the 2022 reporting/performance period eCQMs adding released CMS QRDA III IG. Strict enforcement of Author templateIds
V6.2.2.1	October 5, 2021	Patch to address Known Issues 2305 and 2307
V6.3.0	May 5, 2022	

Bundle Version	Dates	Features
2020.0.5	February 19, 2021	Cypress v6 only Calculations for Master Patient List updated to reflect updated guidance for Relevant dateTime/Relevant Period and addresses issues with time zone offsets.
2021.0.2	June 24, 2021	Cypress v6 only Measures and patients released in 2021 for the 2022 reporting year.

OPEN DISCUSSION

Next Cypress Tech Talk

- Tuesday, June 28, 2022 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
- Note: Cypress Tech Talks will now occur every 4 weeks

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

- 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