

# Cypress™

## Cypress Tech Talk

December 3, 2019



**MITRE**

The Office of the National Coordinator for  
Health Information Technology



# Agenda

---

- Software Updates
  - QRDA Cat I R5.1 errata publication
  - Cypress 5.1.0 Patch Release
    - QRDA Category I R5.1 errata updates
    - 2019.1.0 Bundle
- Recent Issues
  - 5.1.0 Upgrade
  - Known Issues Dashboard
  - CYPRESS-1868
- Cypress Versions
- Announcements
- Open Discussion
- Contact Information

## Software Updates

# QRDA Cat I R5.1 errata

- **On October 11, 2019 HL7 published an errata update to QRDA Category I R5.1**
  - It is available on the QRDA Category I product page  
[http://www.hl7.org/implement/standards/product\\_brief.cfm?product\\_id=35](http://www.hl7.org/implement/standards/product_brief.cfm?product_id=35).
  - Key updates in QRDA Category I – Introductory Material
    - 6.5.1 – Guidance for Ensuring Data Uniqueness
    - 6.5.2 - Guidance for Reason Template Placement When Specifying “Not Done” with a Reason

## *Software Updates*

# Cypress 5.1.0

---

- **A 5.1.0 patch for Cypress was released November 7, 2019**
- **The Cypress 5.1.0 patch makes the following changes:**
  - Address the changes made to the QRDA Category I R5.1 errata
  - Address open ‘Known Issues’
    - “Related To” entries split across files (CYPRESS-1716)
    - ‘View Patients’ page only shows results for a single measure/population set (CYPRESS-1799)
    - Calculation Error for CMS104v8 with patient Z4 N Stroke (CYPRESS-1794)
    - Loading bundle crashes Cypress (CYPRESS-1751)
      - With 2019.1.0 bundle

## Recent Issues

# Cypress 5.1.0 Upgrade

- Users performing a 5.1.0 upgrade of an existing Cypress instance reported still seeing the Calculation Error for CMS104v8.
- This was caused by the upgrade instructions only updating the Cypress Application and not the backend CQM Execution Service.
- If you have already performed the 5.1.0 upgrade please make sure to follow these steps to complete the process.
  - Any tests for CMS104 will need to be regenerated

Connect to your machine running cypress and run the following command:

```
sudo apt-get update
sudo apt-get install cypress
sudo apt-get install cqm-execution-service
sudo systemctl restart cypress
sudo systemctl restart cqm-execution-service
```

- <https://github.com/projectcypress/cypress/wiki/Cypress-5.x-Upgrade-Instructions>

## 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 Add gadget Edit layout ...

**Cypress Known Issues** + ↗ ...

Cypress Known Issues

Below are tables that list known issues for the most recent Cypress Versions

Release Notes for Cypress Versions can be found [here](#)

**Filter Results: Cypress Known Bugs 5.0.1** + ↗ ...

Summary	2020 Reporting Period EH eQMs	2020 Performance Period EP/EC eQMs	Solution ↑	Links
<a href="#">fulfills entry extension lookup in separate file</a>		CMS50v8/NQF374	If you run into this issue during a certification test, please have your Test Proctor refer to this ticket and regenerate a test deck for CMS50.	
<a href="#">Measure Validation engine</a>	CMS108v8/NQFna, ... (1)		On QRDA import, Cypress shifts all times to UTC±00:00.	
			If calculation errors due to timezone shifting during a certification, have	

## Recent Issue

# Cypress 5.1.0 Known Issue

- CYPRESS-1868
- CMS165v8
  - <https://ecqi.healthit.gov/ecqm/ep/2020/cms165v8>
  - CQL includes “\$” sort of Blood Pressure exam
- Cypress calculates differently based on the order of entries
  - Issue in the calculation engine
  - Engine does not sort entries properly in order to find the most recent
- Current workaround is to re-order entries

CQL:

```
Last( "Blood Pressure Days" BPDays
      sort by $this
    )
```

Affects measured blood pressure entries:

```
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.59" extension="2017-08-01"/>
    <templateId root="2.16.840.1.113883.10.20.22.4.13" extension="2014-06-09"/>
    <id root="c48d899d-7201-4d1a-94ae-e8a333f8d641"
      extension="CMS165v8_5dcd6fe7636239035cc7bd98/5dcd6fda636239035cc7b2e1"/>
    <code code="8462-4" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
      displayName="Diastolic blood pressure"/>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20181221170500"/>
      <high value="20181221170500"/>
    </effectiveTime>
    <value xsi:type="PQ" value="60.00" unit="mm[Hg]"/>
    <author>
      <templateId root="2.16.840.1.113883.10.20.24.3.155" extension="2017-08-01"/>
      <time value="20181221170500"/>
      <assignedAuthor>
        <id nullFlavor="NA"/>
      </assignedAuthor>
    </author>
  </observation>
</entry>
```

# Cypress Versions

Version	Dates	Measures Supported
<b>V4.0.3</b>	<b>May 2, 2019</b>	
<b>V4.0.4</b>	<b>October 3, 2019</b>	Latest version supporting eCQMs for the 2019 Reporting/Performance Period and CQL. Fixes QRDA and other 4.0.3 bugs.
<b>V5.0.1</b>	<b>August 29, 2019</b>	Latest version supporting eCQMs for the 2020 Reporting/Performance Period and CQL. Contains performance improvements and fixes for bugs found in Cypress v5.0.0
<b>V5.1.0</b>	<b>November 7, 2019</b>	Support for QRDA Category I R5.1 errata

Bundle Version	Dates	Features
<b>2018.1.0</b>	<b>October 11, 2018</b>	<b>Cypress v4 only</b> CQL-based measures released in 2018 for the 2019 reporting year eCQM Value Sets as of 9/17/2018.
<b>2019.0.1</b>	<b>July 25, 2019</b>	<b>Cypress v5 only</b> CQL-based measures released in 2019 for the 2020 reporting year eCQM Value Sets as of 5/10/2019.
<b>2019.1.0</b>	<b>November 7, 2019</b>	<b>Cypress v5 only</b> Precalculated results Updates to Z6 VTE, Z13 N VTE, B GP Peds and 1 BH Infant



# Announcements

## ■ HL7/CMS FHIR Connectathon

- January 7-8, 2020 @ CMS Headquarters in Baltimore, Maryland
- See the FHIR standard at work as Implementation Guides that impact US healthcare payers come to life
- Use cases such as Payer to Provider Data Exchange, Prior Authorization Support, Payer Alerts, and eCQM Reporting



- Register at: <https://www.hl7.org/events/cms/2020/01/index.cfm>

# Announcements

## ■ 2020 Performance Period EP/EC eCQM Updates

- <https://ecqi.healthit.gov/cms-updates-electronic-clinical-quality-measure-ecqm-resources-2020-performance-period-eligible-professionals-and-eligible-clinicians>
- Finalized in the Medicare Physician Fee Schedule [Final Rule](#)
- Measures Removed
  - CMS52v8: HIV/AIDS: Pneumocystis Jiroveci Pneumonia (PCP) Prophylaxis
  - CMS82v7: Maternal Depression Screening
  - CMS132v8: Cataracts: Complications within 30 Days Following Cataract Surgery Requiring Additional Surgical Procedures
  - CMS160v8: Depression Utilization of the PHQ-9 Tool
- Cypress will not include these measures in future versions

# OPEN DISCUSSION

# Next Cypress Tech Talk

---

- Tuesday, December 17, 2019 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](mailto:project-cypress-talk@googlegroups.com)
- **Report bugs and issues to the Cypress JIRA at**
  - <https://oncprojecttracking.healthit.gov/support/browse/CYPRESS>