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QRDA-I File Creation for CY 2016 eCQM Reporting

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> > > April 14, 2016

Purpose

This presentation is intended for hospital staff who would like higher level information about how EHRs create Quality Reporting Document Architecture (QRDA) files, the standards for file creation, and tools available to support mandatory eCQM reporting to the IQR and EHR Incentive Program in Calendar Year (CY) 2016.

Objectives

Participants will be able to:

- Identify how EHRs utilize Clinical Quality Measure (CQM) data within the system to create QRDA files for Hospital Quality Reporting (HQR) to the Centers for Medicare & Medicaid Services (CMS)
- Recognize the conformance requirements for QRDA file creation
- Explain the aspects which define an eMeasure/eCQM and how they are represented in an Extensible Markup Language (XML) file
- List resources to support mandatory eCQM reporting activities for CY 2016

How QRDA Files are Created from e-Specifications

- e-Specifications of CQMs describe the measure definitions, data elements, and logic that evaluate performance using patient data in QRDA-I documents.
- A QRDA-I document is created for each patient meeting the initial patient population (IPP) criteria of an e-Specification.
 - Within the QRDA-I, a reference to the measure for which the patient meets the initial population identifies associated criteria to populate the patient data in the document body.

www.CMS.gov

Clinical Scenario

- A 76 year old female presents to the Emergency Department (ED) with leftsided facial drooping and slurred speech that started the day prior. Her electrocardiogram (EKG) shows Atrial fibrillation (Afib) with heart rate of 120.
- A computerized tomography (CT) scan showed an ischemic stroke. She was initiated on metoprolol, aspirin, intravenous (IV) Heparin in the ED.
- She was transferred to telemetry and started on Plavix the following day.
- A discharge planning consult was completed and it was determined that the patient could return to home with her daughter.
- Upon discharge, the nurse provided the patient's daughter educational information on how to activate emergency medical services (EMS), stroke fact sheet listing risk factors as well as warning signs, and reviewed her discharge medications (which included Plavix).
- A follow-up appointment with her primary care physician (PCP) was scheduled for the following week and an appointment card was provided to her daughter.

What Parts of the Scenario Could Translate to Fields in Your EHR?

- <u>A 76 y/o female</u> presents to the <u>ED</u> with <u>left-sided facial drooping and</u> <u>slurred speech that started the day prior</u>. Her EKG shows Afib with heart rate of 120.
- <u>CT scan showed brain injury</u> patient was <u>diagnosed with an ischemic</u> <u>stroke</u>. She was initiated on <u>metoprolol, aspirin, IV Heparin</u> in the ED.
- She was transferred to telemetry and started on Plavix the following day.
- A <u>discharge planning consult</u> was completed and it was determined that the patient could return to home with her daughter.
- Upon discharge, the nurse provided the patient's daughter educational information on how to activate EMS, stroke fact sheet listing risk factors as well as warning signs, and reviewed her discharge medications (which included Plavix).
- A <u>f/u appointment with her PCP</u> was scheduled for next week and an <u>appointment card was provided to her daughter</u>.

eMeasures from the Scenario: ED and STK

- Initial Inpatient Population (IPP)
 - Included population: A patient with an Inpatient Admission less than or equal to 120 days
 - Data Elements: admission date, discharge date
- ED 1 (CMS55v4): Median Time from Emergency Department (ED) arrival to ED Departure for Admitted ED patients
 - Included population: Any patient from the facility's ED admitted into the hospital
 - Data elements: Arrival date, Arrival time, ED departure date, ED departure time, ED patient and Principal Diagnosis (Dx) code
- ED 2 (CMS111v4): Admit Decision Time to ED Departure Time for Admitted Patients
 - Included population: Any patient from the facility's ED admitted into the hospital
 - Data elements: Decision to Admit Date, ED departure date, ED departure time, ED patient, and -Principal Dx code

eMeasures from the Scenario: ED and STK (con'd)

- IPP
 - Non-elective Admission, Ischemic or Hemorrhagic STK dx, >18 yrs.
- STK 3 (CMS111v4): (CMS71v5): Anticoagulation therapy for atrial fibrillation/flutter
 - Denominator: Ischemic stroke patients with documented atrial fibrillation/flutter
 - Numerator: Ischemic stroke pts prescribed anticoagulant treatment at hospital discharge *an exclusion would be if admitted for an elective carotid intervention

• STK 5 (CMS72v4): Antithrombotic therapy by end of hospital day 2

- Denominator: Ischemic stroke patients
- Numerator: ischemic stroke patients who had antithrombotic therapy administered by end of hospital day 2

*an exclusion would be if given t-PA (clot buster/thrombolytic therapy)

- STK 8 (CMS107v4): Stroke education
 - Denominator: Admitted patient discharged to home or police custody
 - Numerator: Discharge instructions contain all the required instructions *exclusion is "Patients with comfort measures documented"

eSpecification of STK – 8 (CMS107v4)

Measure details are described in the document header. Example: Human readable portion of STK – 8 formatted in Health Quality Measure Format (HQMF)

eMeasure Title	Stroke Education		
eMeasure Identifier (Measure Authoring Tool)	107	eMeasure Version number	4.0.000
NQF Number	Not Applicable	GUID	217fdf0d-3d64-4720-9116-d5e5afa27f2c
Measurement Period	January 1, 20XX through December 31, 20XX		
Measure Steward	The Joint Commission		
Measure Developer	The Joint Commission		
Endorsed By	None		
Description	Ischemic or hemorrhagic stroke patients or their caregivers who were given educational materials during the hospital stay addressing all of the following: activation of emergency medical system, need for follow-up after discharge, medications prescribed at discharge, risk factors for stroke, and warning signs and symptoms of stroke.		
Copyright	Measure specifications are in the Public Domain LOINC(R) is a registered trademark of the Regenstrief This material contains SNOMED Clinical Terms (R) (SNO Terminology Standards Development Organization. All	Institute. DMED CT[C]) copyright 2004-2014 Inter rights reserved.	national Health
Disclaimer	These performance measures are not clinical guidelines been tested for all potential applications. The measures	s and do not establish a standard of med s and specifications are provided without	ical care, and have not warranty.
Measure Scoring	Proportion		
Measure Type	Process		
Measure Item Count	Encounter, Performed: Non-Elective Inpatient Encounter	er	
Stratification	None		
Risk Adjustment	None		
Rate Aggregation	None		

eSpecification of STK – 8 (CMS107v4)

Machine readable data elements and logic are described in the document body.

Denominator Exclusions	Patients with comfort measures documented.
Numerator	Ischemic or hemorrhagic stroke patients with written documentation that they or their caregivers were given educational material addressing all of the following: 1. Activation of emergency medical system 2. Follow-up after discharge 3. Medications prescribed at discharge 4. Risk factors for stroke 5. Warning signs and symptoms of stroke.
Numerator Exclusions	Not Applicable
Denominator Exceptions	None
Measure Population	Not Applicable
Measure Population Exclusions	Not Applicable
Measure Observations	Not Applicable
Supplemental Data Elements	For every patient evaluated by this measure also identify payer, race, ethnicity and sex.

Table of Contents

- Population Criteria
- Data Criteria (QDM Variables)
- Data Criteria (QDM Data Elements)
- Supplemental Data Elements
- <u>Risk Adjustment Variables</u>

Review Numerator of CMS107v4 eSpecification STK – 8

Population Criteria

- Initial Population =
 - AND: Age >= 18 year(s) at: Occurrence A of \$EncounterInpatientNonElective
 - AND: Union of:
 - "Diagnosis, Active: Ischemic Stroke (ordinality: Principal)"
 - "Diagnosis, Active: Hemorrhagic Stroke (ordinality: Principal)"
 - starts during Occurrence A of \$EncounterInpatientNonElective
- Denominator =
 - AND: Initial Population
 - AND: Intersection of:
 - Occurrence A of \$EncounterInpatientNonElective
 - "Encounter, Performed: Non-Elective Inpatient Encounter (discharge status: Discharge To Home Or Police Custody)"
- Denominator Exclusions =
 - OR: \$InterventionComfortMeasures starts during
 - "Encounter, Performed: Emergency Department Visit" <= 1 hour(s) ends before or concurrent with start of Occurrence A of \$EncounterInpatientNonElective</p>
 - OR: \$InterventionComfortMeasures starts during Occurrence A of \$EncounterInpatientNonElective
- Numerator =
 - AND:
 - OR:
 - AND: "Communication: From Provider to Patient: Activation of Emergency Medical System Education" starts during Occurrence A of \$EncounterInpatientNonElective
 - AND: "Communication: From Provider to Patient: Instructions for Follow Up After Discharge" starts during Occurrence A of \$EncounterInpatientNonElective
 - AND: "Communication: From Provider to Patient: Prescribed Medications Education" starts during Occurrence A of \$EncounterInpatientNonElective
 - AND: "Communication: From Provider to Patient: Risk Factors Education" starts during Occurrence A of \$EncounterInpatientNonElective
 - AND: "Communication: From Provider to Patient: Warning Signs and Symptoms Education" starts during Occurrence A of \$EncounterInpatientNonElective
 - AND: "Communication: From Provider to Patient: Written Information Given" starts during Occurrence A of \$EncounterInpatientNonElective
 - OR: "Communication: From Provider to Patient not done: Patient Refusal" for "Written Information Given" starts during Occurrence A of \$EncounterInpatientNonElective
- Numerator Exclusions =
 - None
- Denominator Exceptions =
 - None
- Stratification =
 - None

Primary Diagnosis Template

```
entry typeCode="DRIV">
             <act classCode="ACT" moodCode="EVN">
              <templateId root="2.16.840.1.113883.10.20.22.4.3" extension="2014-06-09" />
              <templateId root="2.16.840.1.113883.10.20.24.3.121" extension="2014-12-01" />
              <id root="ec8a6ff8-ed4b-4f7e-82c3-e98e58b45de7" />
              <code code="CONC" codeSystem="2.16.840.1.113883.5.6" displayName="Concern" />
              <statusCode code="active" />
              <effectiveTime>
                <low value="20160102090500+0500" />
              </effectiveTime>
              <entryRelationship typeCode="SUBJ">
                <observation classCode="OBS" moodCode="EVN">
                 <templateId root="2.16.840.1.113883.10.20.22.4.4" extension="2014-06-09" />
                 <templateld root="2.16.840.1.113883.10.20.24.3.11" extension="2014-12-01" />
                 <id root="2a620155-9d11-439e-92b3-5d9815ff4de8" />
                 <code code="29308-4" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Diagnosis" />
                 <statusCode code="completed" />
                 <effectiveTime>
                  <low value="20160102150000+0500" />
                  <high value="20160105120000+0500" />
                 </effectiveTime>
                 <priorityCode code="63161005" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Principal" />
                 <value code="434.11" codeSystem="2.16.840.1.113883.6.103" codeSystemName="SNOMED-CT" displayName="Cerebral embolism with cerebral
                       infarction" sdtc:valueSet="2.16.840.1.113883.3.117.1.7.1.247" xsi:type="CD" />
                 <entryRelationship typeCode="REFR">
                  <observation classCode="OBS" moodCode="EVN">
                   <templateld root="2.16.840.1.113883.10.20.22.4.6" extension="2014-06-09" />
                   <templateld root="2.16.840.1.113883.10.20.24.3.94" />
                   <id root="bb0df042-77ee-4ee2-bc85-24adffdef4cc" />
                   <code code="33999-4" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="status" />
                   <statusCode code="completed" />
                   <value code="55561003" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="active" xsi:type="CD" />
                  </observation>
                 </entryRelationship>
                </observation>
              </entryRelationship>
             </act>
4/14/2016
                                                                                                                                                           16
            </entry>
```

QRDA Conformance Requirements

QRDA conforms to:

- Health Level 7 (HL7) Standards
- Clinical Document Architecture (CDA)
 - o Specifies the structure and semantics of 'clinical documents'
- 2016 CMS Implementation Guide (IG) for Eligible Professionals (EPs) and Eligible Hospitals (EHs) and 2016 IG Appendix

NOTE: HQR uses the QRDA-I, Release 3, patient-level files. The Physician Quality Reporting System (PQRS) uses QRDA – I, Release 3 and QRDA – III, Release 1 (aggregate – level data).



4/14/2016

QRDA-I File Creation for CY 2016 eCQM Reporting

TESTING QRDA – I FILE

How to Test the QRDA File Structure

The Pre-submission Validation Application (PSVA):

- Is a downloadable tool that operates on a User's system
- Allows submitters to catch and correct QRDA formatting errors prior to data submission to CMS
- Provides validation feedback within the submitter's system
- Allows valid files to be separated and submitted while invalid files are identified for error correction

Using the PSVA

- Version 1.1.1 of the PSVA is now available.
- Access the PSVA by:
 - Downloading from the Secure File Transfer in the QualityNet Secure Portal (QSP)
 - o Requires a QSP User Account
 - Installing the PSVA to your system
 - Submit Files
 - Requires a QSP User Account with an EHR Data Upload role

Note: For assistance with user accounts or roles, please contact the *QualityNet* Help Desk at <u>qnetsupport@hcqis.org</u> or 866.288.8912, 7 a.m.–7 p.m. Central Time, Monday through Friday.

QRDA – I File Expectations

CMS is expecting:

- One file, per patient, per quarter
- That the file will include all the episodes of care and the measures associated with the patient file
- Maximum individual file size of 5 MB
- Maximum submission of 15,000 files
- Files uploaded by a single XML file or by zip file (.zip)

Who Submits the QRDA File?

QRDA files are typically submitted to the HQR System in the QSP by any of three methods:

Hospitals generate the files from their EHR and submit the files themselves

or

- Vendor generates the files from the EHR and submits data to the QSP on the hospital's behalf or
- Vendor creates the QRDA files and provides the data files to the Hospitals for submission to QSP

QRDA File Submission Requirements for CY 2016 IQR Program Reporting

For the IQR Program for CY 2016 reporting, a hospital will be required to:

- Report a minimum of 4 of the 28 available eCQMs
- Report for only one quarter (Q3 or Q4) of CY 2016
- Submit between October 1, 2016 and February 28, 2017

Submitting eCQMs

- **Does not** eliminate the requirement to submit data for the chartabstracted, web-based, and claims-based measures
- Hospitals submitting eCQMs for the EHR Incentive Program, rather than attesting, can fulfill the reporting requirement with one submission

Note: Measure Exception forms are available for facilities that do not have an Emergency Department (ED) and/or an Obstetrics Unit.

System Access for Submitting QRDAs

- The CMS System:
 - Is currently closed
 - All files being rejected until the system reopens
- Test Folder/System:
 - System will be available spring/summer 2016
- Production Folder/System:
 - System will open no later than October 1, 2016

Note: While the CMS System is unavailable, it is recommended that hospitals and vendors utilize the PSVA Tool to test QRDA files for validation.

QRDA-I File Creation for CY 2016 eCQM Reporting

POINTS TO CONSIDER

Continuous Development Between Chart-Abstracted and EHR based Outcomes

- Chart-abstracted data is gathered from a number of fields within the medical chart (ex. progress notes).
- eCQM data can only be pulled as structured data, recorded in specific fields within the EHR system.
- Chart-abstraction results are not always a 1:1 relationship to what the EHR extracts and submits as an eCQM.
- This Will improve over time as hospital staff work more closely (data abstractors, IT, Quality Improvement/Process Improvement (QI/PI), clinical staff) to collect data in a structured, systematic way fully reflective of patient care.

Questions to Ask Internal IT Staff and Vendors in Preparation for Submission

- Does your facility have a certified EHR in place to report eCQMs?
- Has your staff been discussing the CY 2016 Program Requirement to submit eCQMs for IQR?
- Does your IT Staff have the 2014 version of the measures with 2015 updates if your facility is creating and submitting their own files?
- Does your staff know where to locate the tools to support eCQM data submission?
 - eCQM Library
 - eCQI Resource Center
 - QualityNet
- Is your IT staff/vendor aware the PSVA tool is available for testing QRDA files?
- Has your internal team coordinated who will ensure your eCQMs will be reported by the February 28, 2017 deadline?
 - **Note:** Reporting eCQMs is only a portion of the IQR Program requirement please visit the QualityNet website to ensure you are fulfilling all reporting requirements

QRDA-I File Creation for CY 2016 eCQM Reporting

RESOURCES

Presentations

- September 2, 2015: eCQM: FY 2016 IPPS/LTCH Final Rule
- **December 17, 2015:** 2016 CMS QRDA Implementation Guide Changes for Eligible Hospitals/Critical Access Hospitals
- January 20, 2016: Pre-Submission Validation Application overview for eCQM Data Submission in 2016
- February 16, 2016: eCQM CY 2016: Aligning Hospital IQR and EHR Incentive Programs through eCQMs
- March 10, 2016: PSVA Demonstration and eCQM Q&A Session

Note: All Current and Future Presentations are posted on the Quality Reporting Center http://www.qualityreportingcenter.com/.

Websites



Websites

enters fo	r Medicare & M	 edicaid Services 		Learn about <u>yo</u>	ur healthcare options		Search
Medicare	Medicaid/CHIP	Medicare-Medicaid Coordination	Private Insurance	Innovation Center	Regulations & Guidance	Research, Statistics, Data & Systems	Outreach & Education
Home > Regu	lations and Guidance >	EHR Incentive Programs > eC	CQM Library				
EHR Incen	tive Programs	eCQM Library					
015 Program	Requirements	codin Elbrary					
016 Program	Requirements	Annual Updates				(00M)	
017 Program	Requirements	submission in CMS prog	updates to the el rams.	lectronic specifica	itions of the Clinical Q	uality Measures (eCQMs) ap	proved for
Educational Re	esources	CMS strongly encourage	the implement	entation and use	of the undates to th	e eCOMs finalized in the S	tage 2 rule
Payment Adjus	stments & Hardship	for the 2015 EHR Report clarifications.	rting Period sin	ce those update	s include new codes	s, logic corrections and	
Registration &	Attestation	For those attesting to e	CQMs to demo	nstrate meaning	ful use for the EHR I	Incentive Programs:	
EHR INCENTIV	<u>YE PROGRAM</u> AUDITS AND	CMS will accept al 2012 CMS-ONC Inter	Il versions of the rim Final Rule.	eCQMs through	attestation, beginning	with those finalized in the De	ecember 4,
Data and Prog	ram Reports	For eReporting of eCQ	Ms to demonstr	ate meaningful	use or for Quality Re	porting Programs:	
Aedicare and I	Medicaid EHR ram Basics	 An eligible profess version of the eCQMs 	sional, eligible ho s identified for ea	ospital or Critical / ach program belo	Access Hospital must w.	use the current Reporting Pe	riod

Websites

Control Co	Resource Center The ×	û ☆ ⁽
eCQI Resource Center The one-stop shop for the most current resources to support Electronic Clip Spaces	inical Q uality Improvement. About FAQ	Glossary of eCQI Terms eCQI Resource Center Contact Information
Topic areas EH Measures EP Measures QDM HQMF QR The one-stop shop for the most	DA eCQM Tools Kaizen Education	ources and connect with the community of dedicated to clinical quality improvement for
Quality Improvement.	better health	
Getting Started	eCQMs	Education
A <i>gentle</i> introduction to understanding eCQI and this Resource Center	The who, what, when, where, and why of eCQMs	A selection of educational materials and resources to broaden your eCQI knowledge
More information	More information	More information

Latest News

Phone Support

IQR Program Questions

- 844.472.4477 or 866.800.8765
- 8 a.m.– 8 p.m. ET Monday–Friday
- https://cms-ip.custhelp.com

QualityNet Help Desk

- 866.288.8912; <u>qnetsupport@hcqis.org</u>
- 7 a.m.–7 p.m., CT Monday–Friday

• EHR (MU) Information Center

- 888.734.6433
- 7:30 a.m.–6:30 p.m., CT Monday–Friday

QUESTIONS?

Continuing Education Approval

This program has been approved for 1.0 continuing education (CE) unit for the following professional boards:

- Florida Board of Clinical Social Work, Marriage and Family Therapy and Mental Health Counseling
- Florida Board of Nursing Home Administrators
- Florida Council of Dietetics
- Florida Board of Pharmacy
- Board of Registered Nursing (Provider #16578)
 - It is your responsibility to submit this form to your accrediting body for credit.

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Please provide any additional comments	
$\langle \rangle$	
10. What is your overall level of satisfaction with th	is presentation?
Very satisfied	
Somewhat satisfied	
O Neutral	
Somewhat dissatisfied	
Very dissatisfied	
f you answered "very dissatisfied", please explain	
^	
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1. What topics would be of interact to you for futur	re presentations?
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11. What topics would be of interest to you for futu	re presentations? free to leave your name and phone number or email address and we will contact you.
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Please click on one of the links below to obtain your certificate for your state licensure.

You must be registered with the learning management site.

New User Link:

https://lmc.hshapps.com/register/default.aspx?ID=da0a12bc-db39-408f-b429-d6f6b9ccb1ae

Existing User Link:

https://lmc.hshapps.com/test/adduser.aspx?ID=da0a12bc-db39-408f-b429-d6f6b9ccb1ae

Note: If you click the 'Done' button below, you will not have the opportunity to receive your certificate without participating in a longer survey.

Done

CE Credit Process: New User

earning Center Registration: OQR: 2015 Specifications Manual Update - 1-21- 015	Learning Center Registration: OQR: 2015 Specifications Manual Update - 1-21-
irst Name: Last Name: mail: Phone: Legister	2015
	First Name: Last Name: Email: Phone: Register

CE Credit Process: Existing User

HEATIN SERVICES ADVISORY GROUP		this is a secure site please provide credentials to continue
	Secure Login User Name: Password: Log In	

Thank you for attending!