# eMC 2016

## NCQA eMeasure Certification Supporting HEDIS Supplemental Data Guide



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## Introduction

As a healthcare IT company, you know that identifying and verifying the integrity of electronic health record (EHR) data is important for you and your clients. Your participation in NCQA's eMeasure Certification program ensures the highest level of measure logic review for measures that use EHR data. NCQA's eMeasure Certification adds a higher degree of reliability to performance measurement and enables health care organizations to provide consumers and purchasers with consistent and comparable information.

NCQA's *eMeasure Certification Supporting HEDIS Supplemental Data Guide* contains the policies and procedures for the NCQA eMeasure Certification program. Use it as you complete certification. The first step is completing and submitting your application. After NCQA reviews and accepts your application, you receive a License Agreement. After you execute your License Agreement, you may begin the certification process.

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## Background

### eCQM

Electronic clinical quality measures (eCQM) track the quality of healthcare services by using data from electronic health records (EHR) and other health information technology systems. NCQA's Healthcare Effectiveness Data and Information Set (HEDIS) and the Centers for Medicare & Medicaid Services (CMS) Medicare Stars reporting programs can use certified eCQM data for performance measurement.

#### **HEDIS Compliance Audit**<sup>™</sup>

The HEDIS Compliance Audit<sup>™</sup> promotes plan-to-plan comparison across many dimensions of health care organization performance. To supplement claims data for calculating HEDIS measures, organizations may use data sources other than claims and encounters to collect data about their members and about delivery of health services to their members. Validation of EHR supplemental data sources requires an expensive chart review process. With certified EHR data, health plans can be "preapproved" for some HEDIS and Medicare Stars measures audit requirements. This will allow plans to decrease the number of costly chart reviews.

#### NCQA eMeasure Certification<sup>sм</sup>

Certified HEDIS Compliance Auditors, health plans and companies that use EHR supplemental data for calculating HEDIS measures all spend time reviewing charts. Yet, even under the best circumstances, reviewing charts, mapping and code logic for a large and complex program is not sufficient to guarantee accuracy.

This year, NCQA launched its eMeasure Certification program—a certification program for eCQMs programmed in commercial software products that extract EHR data and produce Quality Reporting Document Architecture (QRDA) Category I and III reports. The automated testing processes used in the program increase the rigor of eCQM data review and improve the accuracy of QRDA reporting based on complex logic.

#### **Program Overview**

For each measure, NCQA generates random, unique sets of patient-level test data ("test decks") that are in Continuity of Care Documents (CCD) encoded in Extensible Markup Language (XML). Vendors process the CCDs using their measure logic and report their results in QRDA Category I and III reports, which are also encoded in XML. *Refer to Appendices F, G.* NCQA compares measure results with expected results and determines if the measure logic computes according to measure and program specifications. Multiple test decks are available for each measure, giving vendors the opportunity to correct inaccuracies in each round of testing. A tested measure receives a final status of Pass, Pass With Qualifications or Fail. *Refer to Certification Status and Deadlines.* 

Measures are "NCQA Certified" when they pass. NCQA issues a Certification Report specifying each measure's certification status, the measure identifier and the date when the status was achieved. The report should be distributed to clients, prospects, health plans and auditors, and the appropriate NCQA eMeasure Certification seal and language may be used in marketing and advertising materials.

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## **Beginning Certification**

Participation in NCQA's eMeasure Certification begins with completing an application and signing a NCQA eMeasure Certification License Agreement.

Application	Applications are available upon request through Policy/Program Clarification Support (PCS) ( <u>https://my.ncqa.org/</u> ). Select <b>eMeasure Certification</b> for the Product/Program Type and choose <b>Request Application</b> from the General Content Area menu. <i>Refer to Appendix E.</i>		
	The application requests company and contact details; information on the product that contains measures; and a list of measures to be certified. Your completed application must be submitted to eMeasure Certification through PCS.		
	New applicants pay NCQA a one-time, nonrefundable fee of \$500, which is credited toward the certification fee.		
Certification agreement	New applicants receive an NCQA eMeasure Certification License Agreement ("Agreement") after NCQA receives the completed application.		
	Return one signed copy of the Agreement as an attachment through PCS with an e-signature. NCQA signs and sends you a copy of the fully executed agreement for your records.		
Certification fees	Certification fees are based on the information in your application and are calculated using the certification fee structure. <i>Refer to Appendix B.</i> They include three testing rounds per measure; an additional 3 rounds of testing can be purchased for the applicable testing cycle per measure fee.		
	All testing rounds are distributed according to the time frame and procedures described in <i>Certification Testing.</i>		
	Invoices are sent within 10 business days of contract execution. All fees are due within 30 days.		
	Vendors are charged a late payment service fee for each payment received more than 30 days after the due date. Access to test decks is granted after all fees are received.		
Press release dates	NCQA will publish two press releases to announce the list of vendors seeking eMeasure certification and a list of those who successfully completed certification. Press release deadlines are:		
/	<ul> <li>First press release: Return application and sign contract by October 30, 2015.</li> </ul>		

• Second press release: Complete certification by February 29, 2016.

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## **Certification Testing**

Measures that are in the Adult and Child Meaningful Use core set and overlap with HEDIS are tested first. The Learning Collaborative depression measures will also be tested during the initial program launch. The program will expand to include other NCQA measure sets, such as the PCMH measures and eCQMs that do not overlap with HEDIS. Test decks will be posted online after they have passed through beta-testing.

Actual eCQM testing starts on November 2 and continues through February 29 of the next year. Testing start and end dates are flexible for the first year of the program. After testing is complete, certification statuses will be posted on NCQA's Web site.

Beta testing eligibility	NCQA selects two vendors to participate as beta-testers. Depending on the number of vendors applying, beta-testers are rotated every two years.
	To be eligible as a beta-tester, vendors must meet the following criteria:
	<ul> <li>Show ability to begin testing measures before the reporting year.</li> </ul>
	<ul> <li>Show ability to begin beta-testing 3 – 4 months before test decks are posted to the OSP.</li> </ul>
	<ul> <li>Can run multiple test decks for each measure, even if the first round passed.</li> </ul>
	<ul> <li>Can access NCQA's SharePoint site to share test decks and results with NCQA.</li> </ul>
	<ul> <li>Return results for any measure within five business days after NCQA releases the test deck.</li> </ul>
Measure specifications	The eCQM specifications for Eligible Professionals, released July 2014 and June 2015 will be available for testing.
	<b>Note:</b> Annual specification updates can be found on the eCQM Library Web site: <u>http://www.cms.gov/Regulations-and-</u> Guidance/Legislation/EHRIncentivePrograms/eCQM_Library.html
File layout standards	The CCD layout contains information on the data that NCQA sends to you for processing. <i>Refer to Appendix F.</i>
	The QRDA Category I and III layouts show how results are returned to NCQA. <i>Refer to Appendix G.</i>
	You must follow the QRDA layouts for the Online Scoring Program (OSP) to run accurately.
OSP	Online Scoring Program. A Web-based tool that compares your results with NCQA's expected results and generates a report showing discrepancies.

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**Sample and** Test decks contain 1 CCD for each patient. There are typically 800–1,000 patients per test deck.

Sample decks also contain "score keys" or answers/expected QRDA results for that deck's data files and testing scenarios. One sample deck is available for each measure. We recommend that you work with these sample decks until your results match the score keys before you begin to work on the testing decks. Sample decks may be scored through the OSP.

**Roadmap** The Roadmap (<u>Record of A</u>dministration, <u>Data Management and Processes</u>) is available each October. Vendors must complete the *Supplemental Data* section for clients and may be asked to submit a copy to NCQA. If applicable, you may use the same Roadmap answers for all clients.

Unique NCQA requires vendors to assign a unique identifier to the certified code for each measure identifier should be visible to the system user any time the measure is run. The unique measure identifier must change if certified measure code changes.

**Example** The unique identifier must be in a Globally Unique Identifier (GUID) format, which is a 128-bit value, presented as 32 hexadecimal digits, with groups separated by hyphens:

xxxxxxx-xxxx-xxxx-xxxx-xxxxxxx

## Customer support

eMeasure Certification Support	Questions regarding certification and testing (e.g., test decks, test patients, and the OSP), select the "eMeasure Certification" product/program type in the PCS system at <a href="https://my.ncqa.org/">https://my.ncqa.org/</a> . Refer to Appendix E.
Technical eCQM Specifications Clarification	Submit technical questions on the eCQM specifications (e.g., logic, code sets, and measure intent) to the "CQM Issue Tracker" project in the ONC Issue Tracking System using a JIRA login at: <u>http://oncprojectracking.org/</u> .

#### **Certification Status and Deadlines**

When you have completed the program, or on the program deadline, NCQA assigns a status (Pass, Pass With Qualifications, Fail) to each tested measure that has a vendor-assigned unique identifier. Untested measures are listed on the certification report as "NA" Certified Compliance Auditors can request code for uncertified measures on behalf of their clients. On the testing deadline, access to uncertified test decks will be revoked.

For vendors without clients who are reporting performance measures, the testing deadline is negotiable.

eMeasure Certification testing concludes...... February 29, 2016

Measure status decisions are based on a measure's detected errors. NCQA explains a status of Pass With Qualifications or Fail. All tested measure statuses are contained in the final Certification Report.

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Pass	Your output matches the scoring output.
Pass With QualificationsYour output does not match the scoring output, but the error is unlikely to a production run.	
Fail	Your output does not match the scoring output and the generated errors are likely to occur in a production run.
NA	You do not want to test a particular measure or it was not certified by the deadline.

#### **Certification Report and Seal**

When you complete certification, NCQA sends you a Certification Report that lists all the measures tested, the final vendor-assigned unique measure identifier, the status for each measure and the date. Provide this report to your clients and other entities who may need it. You may use the Certification Seal and Report to market your software product. (Refer to Appendix D.)

**Note:** You must notify NCQA if certified measure code changes or the vendor-assigned unique identifier changes, regardless of the reason.

#### **Certification Timeline**

Beta-testing begins	July 10
eMeasure certification testing begins	November 2
eMeasure certification testing concludes	February 29

#### **NCQA Compliance Audit**

Benefits of<br/>certifiedWith certified data, health plans can be "preapproved" for some HEDIS and<br/>Medicare Stars measures audit requirements. Extensive chart review is required<br/>when measures are reported with supplemental data. Health plans that obtain<br/>EHR data using a vendor that has certified measures will be able to reduce the<br/>number of costly chart reviews required for reporting supplemental data.

## **APPENDIX A**

## Measures in the Scope of eMeasure Certification (Exhibit A)

### **Electronic Clinical Quality Measures**

#### **Clinical Process/Effectiveness**

CMS ID	HEDIS Abbreviation	Measure
CMS122v3	CDC	Diabetes: Hemoglobin A1c Poor Control
CMS123v3	CDC	Diabetes: Foot Exam
CMS124v3	CCS	Cervical Cancer Screening
CMS125v3	BCS	Breast Cancer Screening
CMS126v3	ASM	Use of Appropriate Medications for Asthma
CMS127v3	PNU	Pneumonia Vaccination Status for Older Adults
CMS128v3	AMM	Anti-depressant Medication Management
CMS130v3	COL	Colorectal Cancer Screening
CMS131v3	CDC	Diabetes: Eye Exam
CMS134v3	CDC	Diabetes: Urine Protein Screening
CMS136v4	ADD	ADHD: Follow-Up Care for Children Prescribed Attention-Deficit/ Hyperactivity Disorder (ADHD) Medication
CMS137v3	IET	Initiation and Engagement of Alcohol and Other Drug Dependence Treatment
CMS159v3	DRR	Depression Remission at Twelve Months
CMS160v3	DMS	Depression Utilization of the PHQ-9 Tool
CMS165v3	CBP	Controlling High Blood Pressure
CMS2v4	DSF	Preventive Care and Screening: Screening for Clinical Depression and Follow-Up Plan

#### **Efficient Use of Healthcare Resources**

CMS ID	HEDIS Abbreviation	Measure
CMS146v3	CWP	Appropriate Testing for Children with Pharyngitis
CMS154v3	URI	Appropriate Treatment for Children with Upper Respiratory Infection
CMS166v4	LBP	Use of Imaging Studies for Low Back Pain

### **Patient Safety**

CMS ID	HEDIS Abbreviation	Measure
CMS156v3	DAE	Use of High-Risk Medications in the Elderly

### Population/Public Health

CMS ID	HEDIS Abbreviation	Measure
CMS117v3	CIS	Childhood Immunization Status
CMS153v3	CHL	Chlamydia Screening for Women
CMS155v3	WCC	Weight Assessment and Counseling for Nutrition and Physical Activity for Children and Adolescents

## **APPENDIX B**

## The Certification Fee Structure (Exhibit B)

The certification fee has two cycle types. The first cycle testing fee is for new vendors, who are testing a measure for the first time, where each measure costs \$2,000. The subsequent cycles testing fee is for returning vendors, who are seeking to update their previously certified code or test a new measure. If a vendor is updating a measure that has limited changes, the fee will be \$1,500 per measure. If there are major changes to a measure or the returning vendor is testing a completely new measure, then the fee is \$2,000 for each measure. If a vendor exceeds the provided 3 testing rounds per measure, the applicable testing cycle per measure fee can be purchased to receive 3 additional testing rounds.

A non-refundable \$500 application fee is processed at the time the application is submitted for new vendors. The application fee is then credited toward the certification fee.

Invoices are sent within 10 business days of contract execution. All fees are due within 30 days and are nonrefundable upon payment.

Measure Testing Fees	<b>Cost Per Measure</b>
First Cycle – New Vendor	\$2,000
Subsequent Cycles – Returning Vendor	
a Limited Changes (e.g. dates and value sets)	\$1.500
b. Major Changes	\$2,000
2. New Measures	\$2,000

## **APPENDIX C**

## Online Scoring Program

#### Sample and Test Decks

Sample decks let vendors test the code before running a production deck. Vendors can upload sample results to the OSP as many times as needed to match NCQA results, or can use the sample score key and their own process to compare their results to NCQA's.
Test decks contain the CCD files for each patient needed to process each measure. Test decks do not contain a score key and results can only be submitted once. A vendor that does not pass the first time must process the next deck.
Uploaded files must conform to the QRDA report layouts for the measure. <i>Refer to Appendix G.</i>
Testing for a measure is complete.
Discrepancies were found. You must view the report and apply fixes to your product. The next deck will automatically become available. However, we encourage you to submit a PCS case to the "eMeasure Certification" product/program type, if you have any questions or need clarification, prior to testing the next deck.

#### **Technical Support**

Send all inquiries to PCS via the "eMeasure Certification" product/program type. Refer to Appendix E.

**Note:** <u>Do not</u> submit test deck questions to ONC Issue Tracking System using a JIRA. Only submit testing questions to <u>PCS</u>.

## APPENDIX D

## **Guidelines for Marketing and Advertising**

These guidelines constitute part of NCQA's Administrative Policies for eMeasure Certification and may be revised by NCQA at its sole discretion. They are designed to protect the integrity of NCQA's programs and allow all participants to benefit from their achievement fairly and accurately.

We encourage you to publicize your achievement and have developed the following Marketing and Advertising Guidelines to help you get the most out of your NCQA status.

References to the terms "advertising," "advertising material" or "advertising and marketing materials" in the following document encompass all external and internal communications including, but not limited to:

- All printed material
- HEDIS<sup>®</sup> Report Cards

- TV ads
- Radio ads
- Letters to employersLetters to practitioners

Letters to providersLetters to consumers

- Posters
   Appuel reports
- Annual reports
- Billboards
- Press releases
- Newsletters
- RFPs
- RFIs

Web sites or other electronic material

• Durable products (e.g., mugs, t-shirts)

• Any other promotional material

Marketing and sales brochures

Letters to insurance brokers

### Using the NCQA Logo

The use and reproduction of NCQA's logo is strictly prohibited. An organization that received Accreditation, Certification, Recognition or other distinction from NCQA is prohibited from using the NCQA logo in any marketing or advertising materials including Web sites, emails and other Web-based applications. If you would like to provide a link to NCQA's Web site, please use <u>www.ncqa.org</u>.

#### Links to NCQA Web Site

NCQA encourages an organization that received Accreditation, Certification, Recognition, Distinction or other NCQA status to use the NCQA Web site as a resource and provide a link to the NCQA Web site.

#### Compliance

It is the responsibility of the organization to follow and conform to all applicable NCQA Marketing and Advertising Guidelines. The information referring to your NCQA status or product must be accurate and not misleading. Only the organization that obtained the NCQA status can advertise such status and use the corresponding seal. The organizations' affiliates, including delegated entities, contractors and partners, are not allowed to use the NCQA status or seal. Failure to comply with these guidelines may jeopardize the organization's NCQA status.

In addition, NCQA will conduct periodic audits of customers' marketing and advertising materials to ensure that marketing materials are true, not misleading and that the organization's NCQA status is represented correctly. Failure to participate in the NCQA audit, or refusal to comply with NCQA's request to address inaccuracies in information related to NCQA, NCQA status and product in your

marketing and advertising materials, constitutes a violation of NCQA's advertising guidelines and may result in, at NCQA's discretion, a revocation of an organization's NCQA status.

The organization must maintain all copies of the marketing and advertising materials that refer to NCQA statuses and products released or used in the past six months.

NCQA reserves the right to require an organization to withdraw the advertising materials from distribution immediately, or to publish, at the organization's cost, a retraction or clarification in connection with any false or misleading statements or any violation of all applicable NCQA Marketing and Advertising Guidelines. Each organization agrees in advance to remedy such violations with the action deemed appropriate by NCQA.

#### How to Advertise NCQA eMeasure Certification<sup>SM</sup>

- Vendors that received an NCQA seal and certification report listing the certified measures may advertise or market that the software contains certified measures.
- Reference to an NCQA-Certified status must clearly indicate:
  - 1. Vendor name.
  - 2. Number of certified measures.
  - 3. Type of specification.
  - 4. Specification release date.
  - 5. Product name.

For example:

Vendor 123 is NCQA-Certified for 15 measures for eCQM released July 2014, Product123

- Vendors may distribute the Certification Report only in its entirety.
- Vendors may not refer to excerpts or portions of their Certification Report in marketing materials with the exception of measures that passed.
- Vendors may list measures that passed certification in marketing materials.
- Certification may not be referred to as a "rank" or "ranking."
- Vendors may not engage in advertising that features competitive comparisons with other vendors
  regarding the percent of measures that passed.

#### **NCQA eMeasure Certification Seal**

NCQA issues seals for vendors with NCQA eMeasure Certification. Only vendors with NCQA-Certified eCQMs may display the seal in advertising and marketing materials in accordance with the following guidelines:

- Seals must not be manipulated in any way.
- Seals may be printed in one-color or two-color format.
- Seals should be displayed in a readable format, and the overall depiction should be consistent with NCQA's graphical image.
- Seals may be used only in conjunction with a reference to the certified product.

NCQA grants organizations with certified measures a nonexclusive right to use NCQA eMeasure Certification seals on, or in connection with, promotional activities, as long as certified measures are commercially available or until NCQA revokes the measure's certification status. NCQA's eMeasure Certification seals are the property of NCQA; organizations may use the seals only in accordance with these Guidelines for Advertising.

Organizations should be aware that NCQA Accreditation, Certification, Recognition, Distinction or other NCQA status can change, which may affect the statement on durable goods (e.g., a trade show display that is no longer accurate must be corrected). It is the organization's responsibility to maintain and update accurate marketing materials. If status changes, the organization is responsible for updating all promotional items, and must cease distribution of all materials with incorrect status information. Updating of Web site and other distributed materials should take place within 30 days of the status change.

All marketing materials must follow NCQA's Marketing and Advertising Guidelines as described on the NCQA Web page (<u>www.ncqa.org/marketing.aspx</u>).

#### **Recommended Language**

Vendors with certified measures may use the following statements, alone or in combination, to identify or describe NCQA, the eMeasure Certification process or HEDIS<sup>®</sup>, and may reference the NCQA Web site at <u>www.ncqa.org</u>.

#### Descriptions of NCQA

• The National Committee for Quality Assurance (NCQA) Web site (<u>www.ncqa.org</u>) contains information to help consumers, employers and others make more-informed health care choices.

The National Committee for Quality Assurance (NCQA), or NCQA is:

- ...a private, non-profit organization dedicated to improving health care quality
- ...an independent, not-for-profit organization dedicated to assessing and reporting on the quality of managed care plans, managed behavioral healthcare organizations, preferred provider organizations, new health plans, physician organizations, credentials verification organizations, disease management programs and other health-related programs.
- ...governed by a board of directors that includes employers, consumer representatives, health plans, quality experts, policy makers and representatives from organized medicine.

#### Descriptions of NCQA eMeasure CertificationSM

- NCQA's eMeasure Certification is precise, automated testing that verifies compliance with eCQM specifications and the ability to report eCQMs using the Quality Reporting Document Architecture (QRDA) Categories I and III.
- Automating testing logic increases the rigor of measure review and improves the accuracy of reporting measures that are based on complex software logic.
- eMeasure Certification improves the precision and efficiency of supplemental data reporting, reduces the primary source review requirements, and ultimately decreases the need for reporting by the hybrid method and promotes further consistency of eCQM data.

#### **Descriptions of HEDIS®**

- Since its introduction in 1993, the Healthcare Effectiveness Data and Information Set (HEDIS<sup>®</sup>) has evolved to become the gold standard in managed care performance measurement.
- Conceived as a way to streamline measurement efforts and promote accountability in managed care, HEDIS<sup>®</sup> measures are now used by approximately 90 percent of all MCOs to evaluate performance in areas ranging from preventive care and consumer experience to heart disease and cancer.
- HEDIS<sup>®</sup> is a set of standardized performance measures designed to make sure purchasers and consumers have the information they need to reliably compare the performance of managed health care organizations.

#### NCQA Trademarks

HEDIS <sup>®</sup>	The Healthcare Effectiveness Data and Information Set (HEDIS <sup>®</sup> ) is a registered trademark of NCQA. Apply the symbol directly after the word "HEDIS":
	<ul> <li>When it is used in a title/headline, and</li> </ul>
	<ul> <li>At the first reference in the body.</li> </ul>
	Subsequent mention does not need a registered trademark.
	The footnote text goes at the bottom of the page of the first mention:
	"HEDIS <sup>®</sup> is a registered trademark of the National Committee for Quality Assurance (NCQA)."
NCQA eMeasure Certification <sup>sм</sup>	NCQA eMeasure Certification <sup>SM</sup> is a service mark of NCQA. Apply the symbol directly after the word "Certification":
	<ul> <li>When it is used in a title/headline, and</li> </ul>
	<ul> <li>At the first reference in the body.</li> </ul>
	Subsequent mention does not need a service mark.
	The footnote text goes at the bottom of the page of the first mention:
	"NCQA eMeasure Certification <sup>SM</sup> is a service mark of the National Committee for Quality Assurance (NCQA)."
HEDIS Compliance	NCQA HEDIS Compliance Audit <sup>™</sup> is a trademark of NCQA. Apply the symbol directly after the word "Audit":
Audit™	<ul> <li>When it is used in a title/headline, and</li> </ul>
	<ul> <li>At the first reference in the body.</li> </ul>
	Subsequent mention does not need a trademark.
	The footnote text goes at the bottom of the page of the first mention:
	"NCQA HEDIS Compliance Audit <sup>™</sup> is a trademark of the National Committee for Quality Assurance (NCQA)."

QualityQuality Compass is a registered trademark of NCQA. Apply the symbol directly<br/>after the word "Compass":

- When it is used in a title/headline, and
- At the first reference in the body.

Subsequent mention does not need a registered trademark.

The footnote text goes at the bottom of the page of the first mention:

"Quality Compass<sup>®</sup> is a registered trademark of the National Committee for Quality Assurance (NCQA)."

## **APPENDIX E**

## How to Submit eMeasure Certification Questions

- Step 1 Access the Policy/Program Clarification Support (PCS) system at (<u>https://my.ncqa.org/</u>).
  - A. First-time users must create an account.

LOGIN	
Email Address	
Password	
Login	Forgot Password
A. Don't have an a	account? Create one now.

B. New users register as an eMeasure Certification Vendor under Organization Type\*.

CREATE NEW ACCOUNT		×
First Name*	Organizatio	on Name*
Last Name*	Organizatio B.	on Type*
Title	Organizatio	on Street Address 1*
Phone Number*	Organizatio	on Street Address 2
Email Address*	Organizatio	on City*
Password*	Organizatio	on State*
Confirm Password*	Organizatio	on Zip Code*
		Create - Canaol
		Create

#### Step 2 C. Click My Questions.

## My Questions

View your questions in an easy and convenient way.

- Ask a question
- View responses
- · See a history of past questions
- Upload file feature



#### D. Click Ask a Question.

QUESTIONS					D. Ask a Question
Open Closed					
10 🔽 records per pag	je			Se	earch:
Subject	Туре	Product/Program	Status	Case	Modified 🗸
You have no Open Ques	tions				
Open Questions Found: 0					$\leftarrow \text{Previous}  \text{Next} \rightarrow$

E. Click **PCS Policy/Program Clarification Support** in the list of categories.

Select the category that best matches your question.



- Step 3 F. From the Policy/Program Type drop-down menu, click eMeasure Certification.
  - G. From the **General Content Area** drop-down menu, click the category that corresponds to your question.
  - H. From the Specific Area drop-down menu:
    - For General eMeasure Certification questions: Select eCQM or Other.
    - For *eCQM Sample or Test Deck questions:* Select the measure you are inquiring about. Measures are listed by CSM ID.
    - For Application Requests select: eCQM.

NEW QUESTION	×
First, help us route your question to the right expert by selecting from the following:	
eMeasure Certification F.	~
General Content Area:	
eCQM Sample Deck eCQM Test Deck General eMeasure Certification Request Application	
Specific Area: None	~
Select Year	
J.	
Question	
К.	^
	$\sim$
Submit Your Question L.	

- Click the year that correlates to the eCQM release date for the specifications you are referencing under What Publication Year does your question relate to?
   For example, for the eCQM Specifications for Eligible Professionals Update, released in May 2015, click 2015 as the publication year.
- J. Enter a brief description of your question in the **Subject** field (e.g., "Extra patients in Initial Patient Population," "General question").
- K. Enter your question in the Question field. Include all pertinent details. You may attach a file to a question only <u>after</u> it is submitted. *Refer to step 4.* If you are inquiring about a test or sample deck, include the patient ID and your reason for including/excluding the patient from your QRDA report.
- L. When all drop-down options and text boxes are complete, click **Submit Your Question**.

Step 4 M. You can view your submitted question on the My Questions page. Submitted questions are listed under "Open" or "Closed."

**Note:** You can add additional information or attach a file to an <u>open</u> question. You must submit a follow-up question to a closed question.

N. Click your case to add information.

QUESTIONS					Ask a Question
Open     Closed     M.       10     records per page     Search:					
Subject	Туре	Product/Program	Status	Case	Modified
PNU Initial Patient Population Criteria	I. PCS	eMeasure Certification	New	00061563	5/7/2015
Open Questions Found: 1         ← Previous         1         Next →					

O. After you select your case, a window displays where you can enter additional comments or attach a file.

EDIT QUESTION		×
	Subject Areas PCS eMeasure Certification eCQM Test Deck CMS127 - PNU - Pneumonia Vaccination Status for Older Adults Publication Year:2015	n
Additional Information About Your Question If you need to add information about your question or if NCQA requests additional information, end request information and discuss your question before it is resolved, NCQA's official response to yo	ter it in the field below. Although NCQA will use this field t our question will be sent to you via e-mail.	to
Submit Comment	500 characters remain	ning
Attach a File A comment and an attachment cannot be submitted at the same time. If you wish to send a comm return to the page and submit the attachment. Please ensure that none of the information included information). Browse Attach File	ent that relates to an attachment, first submit the commend in the attachment includes PHI (Protected Health	nt,
		ancel

#### Submit a Follow-Up Question About a Closed Case

#### Step 1 A. Click Closed.

B. Click the case for which you want to ask a follow up question.

QUESTIONS					Ask a Question
Open Closed A.				Search	
ite lectrus per page				Search.	
Subject	Туре	Product/Program	Status	Case	Modified
CMS165 - Denominator Issue <b>B.</b>	PCS	eMeasure Certification	Closed	00061555	5/7/2015
Closed Questions Found: 1				← Previ	ous 1 Next $\rightarrow$

#### C. Click here to submit a follow up question to your closed case.



After you submit a question, you will receive an e-mail with the subject line:

#### NCQA PCS Inquiry: eMeasure Certification | Case Number: [XXXXXXX]

The e-mail contains the text of the question you submitted and a link to the PCS system, where you can review the question or submit additional information; for example:

NCQ	A PCS Inquiry: eMeasure Certification   Case number 00061555 🖷
+	NCQA noreply@ncqa.org <u>via</u> 88cg4f0g10mn.a-bnlvm 5:00 PM (9 hours ago) ← ▲ ▼ to me •
	You asked the following question: CMS165 - Denominator Issue Testing issue
	Please do not reply to this e-mail. This inbox is not monitored and you will not receive a response.
	Thank you for contacting NCQA. This message confirms receipt of your question. Your case number is 00061555
	PCS Cases are now part of my.ncqa. To review or submit questions regarding this inquiry, log in to my.ncqa. Please allow two business days for a response.
	The information transmitted is intended only for the addressee and may contain confidential or privileged material. Any review, retransmission, dissemination or use of this information, or actions taken based on this information by persons or entities other than the intended recipient, is prohibited. If you received this e-mail in error, please delete it from your computer.

Note: eMeasure certification questions are answered within two business days of submission.

Your response will arrive in an e-mail with the subject line:

#### NCQA PCS Response to Case #[XXXXXXX]

NCC	A PCS Response to Case #00061555		÷
•	NCQA noreply@ncqa.org <u>via</u> q2pmdtsu9iyjge.a-bnlvmao.na11.bnc.salesfo to me	6:43 PM (7 hours ago)	•
	Dear		
	You asked the following question: CMS165 - Denominator Issue Testing issue		
	NCQA's response:		
	NCQA's requirements are updated periodically, and organizations must follow Policy/Program Clarification Support (PCS) responses are not valid after updat	the most current requirement es are released.	S.
	Please do not reply to this e-mail. This mailbox is not monitored, and you will r	not receive a response.	
	This case is closed. PCS cases are now part of my.ncqa. To review this inquiry my.ncqa.	or submit additional questio	ns, log in to
	Regards,		
	Latasha Archer		
	The information transmitted is intended only for the addressee and may contai review, retransmission, dissemination or use of this information, or actions take or entities other than the intended recipient, is prohibited. If you received this e computer.	n confidential or privileged m en based on this information -mail in error, please delete	aterial. Any by persons it from your

## **APPENDIX F**

## **Continuity of Care (CCD) File Layouts**

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#### CCD

This specification outlines the key fields included in the CCD file found in each test deck. There is one CCD file for each patient in the test deck. The generated CCD is based on C-CDA R1.1<sup>1</sup> and the document produced conforms with MU2 requirements. Sections without data include a nullFlavor of <u>No</u> Information (NI) at the section level. *Refer to <u>Table 1</u>: Supported CCD Templates*.

 $<sup>{}^{1}</sup>http://www.hl7.org/documentcenter/private/standards/cda/CDAR2_IG_IHE\_CONSOL\_DSTU\_R1dot1\_2012JUL.zip$ 

Template Title	Template Type	Template ID
US Realm Header	header	2.16.840.1.113883.10.20.22.1.1
Continuity of Care Document (CCD)	document	2.16.840.1.113883.10.20.22.1.2
Encounters Section (entries optional)	section	2.16.840.1.113883.10.20.22.2.22
Encounters Section (entries required)	section	2.16.840.1.113883.10.20.22.2.2.1
Encounter Activities	entry	2.16.840.1.113883.10.20.22.4.49
Immunizations Section (entries optional)	section	2.16.840.1.113883.10.20.22.2.2
Immunizations Section (entries required)	section	2.16.840.1.113883.10.20.22.2.2.1
Immunization Activity	entry	2.16.840.1.113883.10.20.22.4.52
Immunization Medication Information	entry	2.16.840.1.113883.10.20.22.4.54
Medications Section (entries optional)	section	2.16.840.1.113883.10.20.22.2.1
Medications Section (entries required)	section	2.16.840.1.113883.10.20.22.2.1.1
Medication Activity	entry	2.16.840.1.113883.10.20.22.4.16
Medication Dispense	entry	2.16.840.1.113883.10.20.22.4.18
Medication Information	entry	2.16.840.1.113883.10.20.22.4.23
Medication Supply Order	entry	2.16.840.1.113883.10.20.22.4.17
Payers Section	section	2.16.840.1.113883.10.20.22.2.18
Coverage Activity	entry	2.16.840.1.113883.10.20.22.4.60
Policy Activity	entry	2.16.840.1.113883.10.20.22.4.61
Problem Section (entries optional)	section	2.16.840.1.113883.10.20.22.2.5
Problem Section (entries required)	section	2.16.840.1.113883.10.20.22.2.5.1
Problem Concern Act (Condition)	entry	2.16.840.1.113883.10.20.22.4.3
Problem Observation	entry	2.16.840.1.113883.10.20.22.4.4
Procedures Section (entries optional)	section	2.16.840.1.113883.10.20.22.2.7
Procedures Section (entries required)	section	2.16.840.1.113883.10.20.22.2.7.1
Procedure Activity Act	entry	2.16.840.1.113883.10.20.22.4.12
Results Section (entries optional)	section	2.16.840.1.113883.10.20.22.2.3
Results Section (entries required)	section	2.16.840.1.113883.10.20.22.2.3.1
Result Observation	entry	2.16.840.1.113883.10.20.22.4.2
Result Organizer	entry	2.16.840.1.113883.10.20.22.4.1
Vital Signs Section (entries optional)	section	2.16.840.1.113883.10.20.22.2.4
Vital Signs Section (entries required)	section	2.16.840.1.113883.10.20.22.2.4.1
Vital Sign Observation	entry	2.16.840.1.113883.10.20.22.4.27
Vital Signs Organizer	entry	2.16.840.1.113883.10.20.22.4.26

### Continuity of Care Document (CCD) Header

The CDA header contains key metadata about the document to support patient retrieval and storage. This particular document is a Continuity of Care Document.

		Fixed/	
	Card	Dynamic	C-CDA Mapping
	11	F	<realmcode code="US"></realmcode>
	11	F	<typeid <="" root="2.16.840.1.113883.1.3" td=""></typeid>
			extension="POCD_HD000040"/>
	11	F	<templateid root="2.16.840.1.113883.10.20.22.1.1"></templateid>
	11	F	<templateid root="2.16.840.1.113883.10.20.22.1.2"></templateid>
Unique document ID	11	D	id
	11	F	<code <="" code="34133-9" codesystem="2.16.840.1.113883.6.1" td=""></code>
			displayName="Summarization of episode note"/>
Measure Name +	11	D	title
Deck Version			
	11	D	effectiveTime/@value
	11	F	<confidentialitycode <="" code="N" td=""></confidentialitycode>
			codeSystem="2.16.840.1.113883.5.25"/>
	11	F	languageCode/@code
demographic			recordTarget/patientRole/
ID	11	D	ID with NCQA OID 2.16.840.1.113883.3.464.1005.1
Fixed CDA value	1*	D	addr
Mailing Address 1/	14	D	addr/streetAddressLine
Mailing Address 2			
City	11	D	addr/city
State	01	D	addr/state
Zip	01	D	addr/postalCode
	01	F	<country>US</country>
Telephone	1 *	D	telecom
Number		_	
Member First	1*	D	patient/name/family
Name		_	[
Member Last	1*	D	patient/name/given
Name		_	
Gender	11	D	patient/administrativeGenderCode
		_	patient/codeSystem="2.16.840.1.113883.5.1"
Date of Birth	11	D	patient/birthTime
Race	11	D	patient/raceCode@code
		_	patient/raceCode@codeSystem="2.16.840.1.113883.6.238"
Ethnicity	11	D	ethnicGroupCode/@code
,		_	ethnicGroupCode/@codeSystem="2,16,840,1,113883,6,238"
	1*	F	<pre><languagecommunication></languagecommunication></pre>
			<languagecode code="eng"></languagecode>
author	1*	F	/author/
-	11	F	functionCode - fixed to PCP
	11	D	time
	11	F	assignedAuthor/id

**Table 2: CCD Header Constraints Overview** 

		Fixed/	
	Card	Dynamic	C-CDA Mapping
	1*	F	assignedAuthor/addr
	04	F	assignedEntity/addr
	01	F	assignedEntity/addr/streetAddressLine
	01	F	assignedEntity/addr/city
	01	F	assignedEntity/addr/state
	01	F	assignedEntity/addr/postalCode
	0*	F	assignedEntity/addr/country
	1*	F	assignedAuthor/telecom
	11	F	assignedAuthor/assignedPerson/name/given
	11	F	assignedAuthor/assignedPerson/name/family
custodian	11	F	custodian/assignedCustodian/
			representedCustodianOrganization/
	1*	F	id
	11	F	name
	11	F	telecom
	1*	F	addr
	04	F	assignedEntity/addr
	01	F	assignedEntity/addr/streetAddressLine
	01	F	assignedEntity/addr/city
	01	F	assignedEntity/addr/state
	01	F	assignedEntity/addr/postalCode
	0*	F	assignedEntity/addr/country
serviceEvent	0*	F	documentationOf/serviceEvent/
	0*	F	serviceEvent@classCode="PCPR"
	0*	D	effectiveTime/low@value
	0*	D	effectiveTime/high@value

#### Figure 1: CCD Header example

```
<ClinicalDocument xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                  xmlns="urn:hl7-org:v3" xmlns:voc="urn:hl7-org:v3/voc">
 <realmCode code="US"/>
 <typeId root="2.16.840.1.113883.1.3" extension="POCD HD000040"/>
 <!-- US General Header Template -->
 <templateId root="2.16.840.1.113883.10.20.22.1.1"/>
 <!-- *** Note: The next templateId signifies conformance with CCD *** -->
 <templateId root="2.16.840.1.113883.10.20.22.1.2"/>
 <!-- unique id for the document -->
 <id extension="TT988" root="2.16.840.1.113883.19.5.99999.1"/>
 <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
        code="34133-9"
        displayName="Summarization of Episode Note"/>
 <!-- Title of the measure will be added to flat file and placed here as
       title. -->
 <title>NCQA CCD High Risk Medications in the Elderly measure</title>
 <!-- Time the document was created - we will generate -->
 <effectiveTime value="201209150000-0400"/>
 <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25"/>
 <languageCode code="en-US"/>
 <recordTarget>
    <patientRole>
      <id root="2.16.840.1.113883.3.464.1005.1" extension="23423"/>
      <!-- Fake ID using NCQA Patient OID. -->
      <addr>
       <streetAddressLine>1357 Amber Drive</streetAddressLine>
       <city>Beaverton</city>
       <state>OR</state>
       <postalCode>97867</postalCode>
        <country>US</country>
        <!-- US is "United States" from ISO 3166-1 -->
      </addr>
      <telecom value="tel:(816)276-6909"/>
      <patient>
        <name>
          <given>Isabella</given>
          <family>Jones</family>
        </name>
        <administrativeGenderCode code="F" codeSystem="2.16.840.1.113883.5.1"
         displayName="Female"/>
        <br/><birthTime value="19750501"/>
        <!-- CDC Race and Ethnicity code set contains the minimum race and
                 ethnicity categories defined by OMB Standards for Race and
                 Ethnicity -->
        <raceCode code="2106-3" displayName="White"
                  codeSystem="2.16.840.1.113883.6.238"
                  codeSystemName="Race & amp; Ethnicity - CDC"/>
        <ethnicGroupCode code="2186-5" displayName="Not Hispanic or Latino"</pre>
          codeSystem="2.16.840.1.113883.6.238"
          codeSystemName="Race & Ethnicity - CDC"/>
        <br/>dirthplace>
          <place>
            <addr>
              <city>Beaverton</city>
              <state>OR</state>
```

```
<postalCode>97867</postalCode>
            <country>US</country>
          </addr>
        </place>
      </birthplace>
      <languageCommunication>
        <languageCode code="eng"/>
      </languageCommunication>
    </patient>
  </patientRole>
</recordTarget>
<author>
  <functionCode code="PCP" codeSystem="2.16.840.1.113883.5.88"
                codeSystemName="Provider Role"
                displayName="Primary Care Provider"/>
 <time value="20050329224411+0500"/>
  <assignedAuthor>
    <id extension="999999999" root="2.16.840.1.113883.4.6"/>
    <code code="200000000X" codeSystem="2.16.840.1.113883.6.101"/
      displayName="Allopathic & amp; Osteopathic Physicians"/>
    <addr>
      <streetAddressLine>1002 Healthcare Drive </streetAddressLine>
      <city>Portland</city>
      <state>OR</state>
      <postalCode>99123</postalCode>
      <country>US</country>
    </addr>
    <telecom use="WP" value="tel:555-555-1002"/>
    <assignedPerson>
      <name>
        <given>Henry</given>
        <family>Seven</family>
      </name>
    </assignedPerson>
  </assignedAuthor>
</aut.hor>
<custodian>
  <assignedCustodian>
    <representedCustodianOrganization>
      <!-- NCQA OID -->
      <id root="2.16.840.1.113883.3.464"/>
      <name>National Committee for Quality Assurance (NCQA)</name>
      <telecom value="tel: 202-955-3500" use="WP"/>
      <addr use="WP">
        <streetAddressLine>1100 13th St., NW Suite 1000</streetAddressLine>
        <city>Washington</city>
       <state>DC</state>
        <postalCode>20005</postalCode>
        <country>US</country>
      </addr>
    </representedCustodianOrganization>
  </assignedCustodian>
</custodian>
<documentationOf>
  <serviceEvent classCode="PCPR">
    <!-- NCQA Time? -->
    <effectiveTime>
      <low value="201209080000-0400"/>
      <high value="201209150000-0400"/>
```

```
</effectiveTime>
     <performer typeCode="PRF">
       <functionCode code="PCP" codeSystem="2.16.840.1.113883.5.88"
                      codeSystemName="Provider Role"
                      displayName="Primary Care Provider"/>
       <assignedEntity>
         <!-- Provider NPI "PseudoMD-1" -->
         <id extension="999999999" root="2.16.840.1.113883.4.6"/>
         <code code="200000000X" codeSystem="2.16.840.1.113883.6.101"
           displayName="Allopathic & Osteopathic Physicians"/>
         <addr>
           <streetAddressLine>1002 Healthcare Drive </streetAddressLine>
           <city>Portland</city>
           <state>OR</state>
           <postalCode>99123</postalCode>
           <country>US</country>
         </addr>
         <telecom use="WP" value="tel:555-555-1002"/>
         <assignedPerson>
           <name>
             <given>Henry</given>
             <family>Seven</family>
           </name>
         </assignedPerson>
       </assignedEntity>
     </performer>
   </serviceEvent>
 </documentationOf>
. . .
```

#### **Encounters Section**

The *Encounters* section lists and describes any health care encounter pertinent to the patient's current health status or health history.

Table 3: Encounters Section Cons	straints Overview
----------------------------------	-------------------

		Fixed/	
Key Fields	Card	Dynamic	C-CDA Mapping
Section	1*	F	component/structuredBody/component/section
	1*	F	<templateid root="2.16.840.1.113883.10.20.22.2.22"></templateid>
	1*	F	<templateid root="2.16.840.1.113883.10.20.22.2.2.1"></templateid>
	11	F	<code <="" code="46240-8" td=""></code>
			codeSystem="2.16.840.1.113883.6.1"
			codeSystemName="LOINC"
			displayName="Encounters"/>
	11	F	<title>ENCOUNTERS</title>
Code Text	11	D	text
	1*	F	/entry/
	11	F	<pre><encounter classcode="ENC" moodcode="EVN"></encounter></pre>
	1*	F	<templateid root="2.16.840.1.113883.10.20.22.4.49"></templateid>
	11	D	<id extension="" root="2.16.840.1.113883.3.464.1005.7"></id>
Activity Type	11	D	<code <="" code="99241" td=""></code>
			displayName="Office consultation - 15 minutes"
			codeSystemName="CPT"
			codeSystem="2.16.840.1.113883.6.12"
			codeSystemVersion="4">
			[code could be SNOMED or HCPCS]
Service Date and	11	D	<effectivetime></effectivetime>
End Date			<low value="[Service Date]"></low>
			<high value="[End Date]"></high>

#### Figure 2: Encounters section example

. . .

```
. . .
<section>
   <templateId root="2.16.840.1.113883.10.20.22.2.2.1"/>
    <code code="46240-8" codeSystem="2.16.840.1.113883.6.1"
          codeSystemName="LOINC" displayName="History of Encounters"/>
   <title>ENCOUNTERS</title>
   <text>Encounters...</text>
   <entry typeCode="DRIV">
        <encounter classCode="ENC" moodCode="EVN">
            <templateId root="2.16.840.1.113883.10.20.22.4.49"/>
            <id root="2.16.840.1.113883.3.464.1005.1" extension="95005"/>
            <code code="108311000" codeSystem="2.16.840.1.113883.6.96"
                  codeSystemName="SNOMED-CT"
                  displayName="Psychiatricprocedure"/>
            <effectiveTime>
                <low value="19821203"/>
                <high value="19821203"/>
            </effectiveTime>
        </encounter>
   </entry>
   <entry typeCode="DRIV">
        <encounter classCode="ENC" moodCode="EVN">
            <templateId root="2.16.840.1.113883.10.20.22.4.49"/>
            <id root="2.16.840.1.113883.3.464.1005.1" extension="95005"/>
            <code code="99386" codeSystem="2.16.840.1.113883.6.12"
                  codeSystemName="CPT" displayName="Unknown Encounter Code"/>
            <effectiveTime>
                <low value="20120519"/>
                <high value="20120519"/>
            </effectiveTime>
        </encounter>
   </entry>
```

### **Immunizations Section**

The *Immunizations* section defines a patient's current immunization status and pertinent immunization history.

Table 4: Immunizations	Section	<b>Constraints</b>	<b>Overview</b>
------------------------	---------	--------------------	-----------------

		Fixed/	
Key Fields	Card	Dynamic	C-CDA Mapping
Section	1*		component/structuredBody/component/section
	1*	F	<templateid root="2.16.840.1.113883.10.20.22.2.2"></templateid>
	1*	F	<templateid root="2.16.840.1.113883.10.20.22.2.2.1"></templateid>
	11	F	<code <="" code="11369-6" td=""></code>
			codeSystem="2.16.840.1.113883.6.1"
			codeSystemName="LOINC"
			displayName="Immunizations"/>
title@text	11	F	<title>Immunizations</title>
Code Text	11	D	text
	1*	F	/entry/
	11	F	<substanceadministration <="" classcode="SBADM" td=""></substanceadministration>
			moodCode="EVN"
			negationInd="false">
	1*	F	<templateid root="2.16.840.1.113883.10.20.22.4.52"></templateid>
	11	D	<id root="cdbd33f0-6cde-11db-9fe1-0800200c9a66"></id>
	11	F	<statuscode code="completed"></statuscode>
Immunization Date	11	D	<pre><effectivetime date]="" value="[Immunization"></effectivetime></pre>
	11	F	<consumable></consumable>
			<manufacturedproduct classcode="MANU"></manufacturedproduct>
	1*	F	<templateid< td=""></templateid<>
		/	
			root="2.16.840.1.113883.10.20.22.4.54"/>
	11	F	<manufacturedmaterial></manufacturedmaterial>
Immunization Code	11	D	<code code="[Drug" code]<="" td=""></code>
			codeSystem="2.16.840.1.113883.12.292"
			displayName="anthrax"
			codeSystemName="CVX">

#### Figure 3: Immunizations section example

```
. . .
<section>
   <!-- conforms to Immunizations section with entries optional -->
   <templateId root="2.16.840.1.113883.10.20.22.2.2"/>
   <!-- Immunizations section with entries required -->
   <templateId root="2.16.840.1.113883.10.20.22.2.2.1"/>
   <code code="11369-6" codeSystem="2.16.840.1.113883.6.1"
          codeSystemName="LOINC"
          displayName="History of immunizations"/>
   <title>IMMUNIZATIONS</title>
   <text>Vaccine... </text>
        <entry typeCode="DRIV">
          <substanceAdministration classCode="SBADM" moodCode="EVN"</pre>
            negationInd="false">
            <!-- ** Immunization activity ** -->
            <templateId root="2.16.840.1.113883.10.20.22.4.52"/>
            <id root="e6f1ba43-c0ed-4b9b-9f12-f435d8ad8f92"/>
            <statusCode code="completed"/>
            <effectiveTime value="199911"/>
            <consumable>
                <manufacturedProduct classCode="MANU">
                    <!-- ** Immunization medication information ** -->
                    <templateId root="2.16.840.1.113883.10.20.22.4.54"/>
                    <manufacturedMaterial>
                        <code code="88" codeSystem="2.16.840.1.113883.12.292"
                            displayName="Influenza virus vaccine"
                            codeSystemName="CVX"/>
                    </manufacturedMaterial>
                </manufacturedProduct>
            </consumable>
          </substanceAdministration>
   </entry>
```

#### **Medications Section**

The *Medications* section defines a patient's current medications and pertinent medication history.

		Fixed/	
Key Fields	Card	Dynamic	C-CDA Mapping
Section	1*	_	component/structuredBody/component/section
	1*	F	<templateid root="2.16.840.1.113883.10.20.22.2.1"></templateid>
	1*	F	<pre><templateid root="2.16.840.1.113883.10.20.22.2.1.1"></templateid></pre>
	11	F	<code <="" code="10160-0" td=""></code>
			codeSystem="2.16.840.1.113883.6.1"
			codeSystemName="LOINC"
			displayName="History of Medication Use"/>
title@text	11	F	<title>MEDICATIONS</title>
Code Text	11	D	text
	1*	F	/entry/
	11	F	<substanceadministration <="" classcode="SBADM" td=""></substanceadministration>
			moodCode="EVN">
	1*	F	<templateid root="2.16.840.1.113883.10.20.22.4.16"></templateid>
	11	D	<id root="cdbd33f0-6cde-11db-9fe1-0800200c9a66"></id>
	11	F	<statuscode code="completed"></statuscode>
Start Date/End	11	D	<effectivetime xsi:type="IVL_TS"></effectivetime>
Date/Frequency			<low date]="" nullflavor="[start"></low>
			<high date]="" nullflavor="[end"></high>
			<pre><effectivetime <="" pre="" xsi:type="PIVL_TS"></effectivetime></pre>
		/	institutionSpecified="true"
			operator="A">
			<period unit="h" value="[24/Frequency]"></period>
	11	F	<consumable></consumable>
			<manufacturedproduct classcode="MANU"></manufacturedproduct>
	1*	F	<templateid< td=""></templateid<>
			root="2.16.840.1.113883.10.20.22.4.23"/>
/	11	F	<manufacturedmaterial></manufacturedmaterial>
Drug Code	11	D	<code code="[Drug" code]<="" td=""></code>
			codeSystem="2.16.840.1.113883.6.88"
			displayName="Proventil HFA"
			codeSystemName="RxNorm">
Start of Medication	11	F	<entryrelationship typecode="REFR"></entryrelationship>
Supply Order			<supply classcode="SPLY" moodcode="EVN"></supply>
	1*	F	<templateid< td=""></templateid<>
			root="2.16.840.1.113883.10.20.22.4.17"/>
	11	F	<id nullflavor="NI"></id>
	1 11	I F	<pre><statuscode code="completed"></statuscode></pre>

#### **Table 5: Medications Section Constraints Overview**

	Fixed/	
Card	Dynamic	C-CDA Mapping
11	D	<effectivetime xsi:type="IVL_TS"></effectivetime>
		<low date]="" value="[Order"></low>
		<high nullflavor="UNK"></high>
11	F	<product></product>
		<manufacturedproduct classcode="MANU"></manufacturedproduct>
1*	F	<id nullflavor="NI"></id>
11	F	<manufacturedmaterial></manufacturedmaterial>
11	D	<code code="[Drug" code]<="" td=""></code>
		codeSystem="2.16.840.1.113883.6.88"
		displayName="Proventil HFA"
		codeSystemName="RxNorm">
11	F	<pre><entryrelationship typecode="REFR"></entryrelationship></pre>
		<supply classcode="SPLY" moodcode="EVN"></supply>
1*	F	<templateid< td=""></templateid<>
		root="2.16.840.1.113883.10.20.22.4.18"/>
11	F	<id nullflavor="NI"></id>
11	F	<statuscode code="completed"></statuscode>
11	D	<effectivetime date]="" value="[dispense"></effectivetime>
11	D	<product></product>
		<manufacturedproduct classcode="MANU"></manufacturedproduct>
1*	F	<templateid< td=""></templateid<>
		root="2.16.840.1.113883.10.20.22.4.23"/>
11	F	<manufacturedmaterial></manufacturedmaterial>
11	D	<code code="[Drug" code]<="" td=""></code>
	/	
		codeSystem="2.16.840.1.113883.6.88"
		displayName="Proventil HFA"
		codeSystemName="RxNorm">
	Card           11           11           11           11           11           11           11           11           11           11           11           11           11           11           11           11           11           11           11	Card         Fixed/ Dynamic           11         D           11         F           11         D           11         D

Figure 4: Medications section example

```
. . .
<section>
   <!-- conforms to Medications section with entries optional -->
   <templateId root="2.16.840.1.113883.10.20.22.2.1"/>
   <!-- Medications section with entries required -->
   <templateId root="2.16.840.1.113883.10.20.22.2.1.1"/>
   <code code="10160-0" codeSystem="2.16.840.1.113883.6.1"
          codeSystemName="LOINC"
        displayName="HISTORY OF MEDICATION USE"/>
   <title>MEDICATIONS</title>
   <text>Medication...</text>
   <entry typeCode="DRIV">
        <substanceAdministration classCode="SBADM" moodCode="EVN">
            <!-- ** Medication activity ** -->
            <templateId root="2.16.840.1.113883.10.20.22.4.16"/>
            <id root="cdbd33f0-6cde-11db-9fe1-0800200c9a66"/>
            <statusCode code="completed"/>
            <effectiveTime xsi:type="IVL TS">
                <low value="20070103"/>
                <high value="20120515"/>
            </effectiveTime>
            <effectiveTime xsi:type="PIVL TS" institutionSpecified="true"</pre>
                           operator="A">
                <period value="24" unit="h"/>
            </effectiveTime>
            <consumable>
                <manufacturedProduct classCode="MANU">
                    <!-- ** Medication information ** -->
                    <templateId root="2.16.840.1.113883.10.20.22.4.23"/>
                    <manufacturedMaterial>
                        <code code="1168631"
                              codeSystem="2.16.840.1.113883.6.88"
                              displayName="Bayer Aspirin Pill"/>
                    </manufacturedMaterial>
                </manufacturedProduct>
            </consumable>
            <!-- Intent to supply patient with Medication. -->
            <entryRelationship typeCode="REFR">
                <supply classCode="SPLY" moodCode="INT">
                    <!-- ** Medication supply order ** -->
                    <templateId root="2.16.840.1.113883.10.20.22.4.17"/>
                    <id nullFlavor="NI"/>
                    <statusCode code="completed"/>
                    <effectiveTime xsi:type="IVL TS">
                        <low value="20070103"/>
                        <high nullFlavor="UNK"/>
                    </effectiveTime>
                    product>
                        <manufacturedProduct classCode="MANU">
                            <!-- ** Medication information ** -->
                            <templateId
                                       root="2.16.840.1.113883.10.20.22.4.23"/>
                            <id nullFlavor="NI"/>
                            <manufacturedMaterial>
                                <code code="573621"
                                       codeSystem="2.16.840.1.113883.6.88"
                                    displayName="Proventil 0.09
                                                  MG/ACTUAT inhalant solution"
```

```
codeSystemName="RxNorm"/>
                        </manufacturedMaterial>
                    </manufacturedProduct>
                </product>
            </supply>
        </entryRelationship>
        <!-- Recording dispense of Medication. -->
        <entryRelationship typeCode="REFR">
            <supply classCode="SPLY" moodCode="EVN">
                <!-- ** Medication dispense ** -->
                <templateId root="2.16.840.1.113883.10.20.22.4.18"/>
                <id nullFlavor="NI"/>
                <statusCode code="completed"/>
                <effectiveTime value="20070103"/>
                <product>
                    <manufacturedProduct classCode="MANU">
                        <!-- ** Medication information ** -->
                        <templateId
                            root="2.16.840.1.113883.10.20.22.4.23"/>
                        <id root="2a620155-9d11-439e-92b3-5d9815ff4ee8"/>
                        <manufacturedMaterial>
                            <code code="573621"
                                  codeSystem="2.16.840.1.113883.6.88"
                                displayName="Proventil 0.09
                                             MG/ACTUAT inhalant solution"
                                codeSystemName="RxNorm"/>
                        </manufacturedMaterial>
                    </manufacturedProduct>
                </product>
            </supply>
        </entryRelationship>
    </substanceAdministration>
</entry>
```

### **Payers Section**

The Payers section describes the relevant payer at the time the document is generated.

		Fixed/	
Key Fields	Card	Dynamic	C-CDA Mapping
Section	1*	F	component/structuredBody/component/section
	1*	F	<templateid root="2.16.840.1.113883.10.20.22.2.18"></templateid>
	11	F	<code <="" code="48768-6" td=""></code>
			codeSystem="2.16.840.1.113883.6.1"
			codeSystemName="LOINC"
			displayName="PAYERS"/>
	11	F	<title>PAYERS</title>
Code Text	11	D	text
	11	F	/entry/
	1*	F	<act classcode="ACT" moodcode="EVN"></act>
	11	F	<templateid root="2.16.840.1.113883.10.20.22.4.60"></templateid>
	1*	D	<id root="generated id"></id>
	11	F	<code <="" code="48768-6" td=""></code>
			codeSystem="2.16.840.1.113883.6.1"
			codeSystemName="LOINC" displayName="Payment
			sources"/>
	11	F	<statuscode code="completed"></statuscode>
	11	F	<entryrelationship typecode="COMP"></entryrelationship>
	11	F	<act classcode="ACT" moodcode="EVN"></act>
	11	F	<templateid root="2.16.840.1.113883.10.20.22.4.61"></templateid>
	11	F	<id root="ab1791b0-5c71-11db-b0de-0800200c9a66"></id>
Payer	11	D	<code <="" code="1" codesystemname="Source of Payment&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Typology" td=""></code>
			codeSystem="2.16.840.1.113883.3.221.5"
			displayName="MEDICARE"/>
	11	F	<performer typecode="PRF"></performer>
			<templateid root="2.16.840.1.113883.10.20.22.4.87"></templateid>
			<assignedentity></assignedentity>
			<id nullflavor="NA"></id>
	<i>Y</i>		
			<pre><participant typecode="COV"></participant></pre>
			Covered Party Participant
			<templateid root="2.16.840.1.113883.10.20.22.4.89"></templateid>
			<pre>contraction </pre>
			Health plan ID for patient>
			<id nullflavor="NI"></id>
			<code <="" code="SELF" td=""></code>
			codeSystem="2,16,840,1,113883,5,111"
			displayName="Self"/>
			<pre><pre>contryRelationship typeCode="RFFR"&gt;</pre></pre>
			<pre>cart classCode="ACT" moodCode="F\/N"&gt;</pre>
			<pre><li><li><li><li><li><li><li>** Authorization activity **&gt;</li></li></li></li></li></li></li></pre>

### Table 6: Payers Section Constraints Overview

		Fixed/	
Key Fields	Card	Dynamic	C-CDA Mapping
			<templateld root="2.16.840.1.113883.10.20.1.19"></templateld> <id nullflavor="NI"></id> <code nullflavor="NA"></code> <entryrelationship typecode="SUBJ"> <procedure classcode="PROC" moodcode="PRMS"> <code nullflavor="NI"></code> </procedure></entryrelationship>

## Figure 5: Payers section example

••		
section>		
<templateid root="&lt;/th"><th>="2.16.840.1.113883.10.20.22.2.</th><th>18"/&gt;</th></templateid>	="2.16.840.1.113883.10.20.22.2.	18"/>
<code code="48768&lt;/td&gt;&lt;td&gt;8-6" codesystem="2.16.840.1.113&lt;/td&gt;&lt;td&gt;8883.6.1″&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;codeSystemName=" dis<="" loinc"="" td=""><td>playName="Payer"/&gt;</td></code>	playName="Payer"/>	
<title>INSURANCE</title>	PROVIDERS	/*
<text>Insurance }</text>	Provide	
<entry typecode="`&lt;/td"><td>"DRIV"&gt;</td><td></td></entry>	"DRIV">	
<act classcod<="" td=""><td>de="ACT" moodCode="EVN"&gt;</td><td></td></act>	de="ACT" moodCode="EVN">	
<template< td=""><td>eId root="2.16.840.1.113883.10.</td><td>20.22.4.60"/&gt;</td></template<>	eId root="2.16.840.1.113883.10.	20.22.4.60"/>
<id root="&lt;/td"><td>="57df6978-5af2-4371-adad-ac9f0</td><td>8163fcd"/&gt;</td></id>	="57df6978-5af2-4371-adad-ac9f0	8163fcd"/>
<code cod<="" td=""><td>de="48768-6" codeSystem="2.16.8</td><td>40.1.113883.6.1"</td></code>	de="48768-6" codeSystem="2.16.8	40.1.113883.6.1"
COC	deSystemName="LOINC" displayNam	e="Payer"/>
<statusco< td=""><td>ode code="completed"/&gt;</td><td></td></statusco<>	ode code="completed"/>	
<entryrel< td=""><td>lationship typeCode="COMP"&gt;</td><td></td></entryrel<>	lationship typeCode="COMP">	
<act< td=""><td>classCode="ACT" moodCode="EVN"</td><td>&gt;</td></act<>	classCode="ACT" moodCode="EVN"	>
<	<templateid root="2.16.840.1.11&lt;/td&gt;&lt;td&gt;3883.10.20.22.4.61"></templateid>	
<	<id root="46076ef7-5119-4074-9a&lt;/td&gt;&lt;td&gt;15d-93e97cd366fa"></id>	
<	<code <="" code="3212" td=""><td></td></code>	
	codeSystem="2.16.840.1.11	4222.4.11.3591"
	codeSystemName="Source of	Payment Typology"
	displayName="Indirect Car	e
	Care provide	ed outside VA facilities"/>
<	<pre><statuscode code="completed"></statuscode></pre>	
<	<performer typecode="PRF"></performer>	
	<pre><templateid root="2.16.840.&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;1.113883.10.20.22.4.87"></templateid></pre>	
	<assignedentity></assignedentity>	
	<id nullflavor="NA"></id>	
	<participant typecode="COV"></participant>	
	<templateid root="2.16.840.&lt;/td&gt;&lt;td&gt;1.113883.10.20.22.4.89"></templateid>	
	<participantrole classcode="&lt;/td"><td>"PAT"&gt;</td></participantrole>	"PAT">
	<id nullflavor="NI"></id>	
	<code <="" code="SELF" td=""><td></td></code>	
	codeSystem="2.16.	840.1.113883.5.111"

```
codeSystemName="RoleCode"
                                  displayName="Self"/>
                        </participantRole>
                    </participant>
                    <entryRelationship typeCode="REFR">
                        <act classCode="ACT" moodCode="EVN">
                            <templateId root="2.16.840.1.113883.10.20.1.19"/>
                            <id nullFlavor="NI"/>
                            <code nullFlavor="NA"/>
                            <entryRelationship typeCode="SUBJ">
                                <procedure classCode="PROC" moodCode="PRMS">
                                    <code nullFlavor="NI"/>
                                </procedure>
                            </entryRelationship>
                        </act>
                    </entryRelationship>
               </act>
           </entryRelationship>
       </act>
   </entry>
. . .
```

### **Problems Section**

The *Problems* section lists and describes all relevant clinical problems at the time the document is generated.

		Fixed/	
Key Fields	Card	Dynamic	C-CDA Mapping
Section	1*	F	component/structuredBody/component/section
	1*	F	<templateid root="2.16.840.1.113883.10.20.22.2.5"></templateid>
	1*	F	<templateid root="2.16.840.1.113883.10.20.22.2.5.1"></templateid>
	11	F	<pre><code <="" code="11450-4" codesystem="2.16.840.1.113883.6.1" pre=""></code></pre>
			codeSystemName="LOINC"
			displayName="PROBLEM LIST"/>
	11	F	<title>PROBLEMS - DIAGNOSES</title>
Code Text	11	D	text
	1*	F	/entry/
	11	F	<act classcode="ACT" moodcode="EVN"></act>
	1*	F	<templateid root="2.16.840.1.113883.10.20.22.4.3"></templateid>
	11	F	<id nullflavor="NI"></id>
	11	F	<code <="" code="CONC" codesystem="2.16.840.1.113883.5.6" td=""></code>
			displayName="Concern"/>
Active or completed	11	D	<statuscode code="&lt;active OR completed"></statuscode>
problem			
Start Date	11	F	<effectivetime></effectivetime>
			<low value="YYYYMMDD"></low>
			<high value="YYYYMMDD"></high>
	11	F	<pre><entryrelationship typecode="SUBJ"></entryrelationship></pre>
	11	F	<pre><observation classcode="OBS" moodcode="EVN"></observation></pre>
	1*	F	<templateid root="2.16.840.1.113883.10.20.22.4.4"></templateid>
	11	D	<id root="ab1791b0-5c71-11db-b0de-0800200c9a66"></id>
	11	F	<code <="" code="55607006" td=""></code>
			codeSystem="2.16.840.1.113883.6.96"
			displayName="Problem"/>
	11	F	<statuscode code="completed"></statuscode>
Start Date and End Date	11	D	<effectivetime></effectivetime>
			<low value="YYYYMMDD"></low>
			<high <="" cd"="" code="233604007" td="" value="YYYYMMDD'/&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/effectiveTime&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Problem Code&lt;/td&gt;&lt;td&gt;11&lt;/td&gt;&lt;td&gt;D&lt;/td&gt;&lt;td&gt;Common case:&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;value xsi:type="></high>
			codeSystem="2.16.840.1.113883.6.96"
			displayName="Pneumonia"/>
			Exceptional Case:
			<value <="" nullflavor="OTH" td="" xsi:type="CD"></value>
			codeSystemName="SNOMED"
			codeSystem="2.16.840.1.113883.6.96">
Additional Problem code	1*	D	<translation <="" code="786.5" td=""></translation>
			codeSystem="2.16.840.1.113883.6.104"
			displayName="Chest Pain"/>

Figure 6: Problems section example

```
. . .
<section>
   <templateId root="2.16.840.1.113883.10.20.22.2.5.1"/>
    <code code="11450-4" codeSystem="2.16.840.1.113883.6.1"
          codeSystemName="LOINC" displayName="PROBLEM LIST"/>
   <title>PROBLEMS - DIAGNOSES</title>
   <text>Problems...</text>
   <entry typeCode="DRIV">
        <act classCode="ACT" moodCode="EVN">
            <templateId root="2.16.840.1.113883.10.20.22.4.3"/>
            <id nullFlavor="NI"/>
            <code code="CONC" codeSystem="2.16.840.1.113883.5.6"
                  codeSystemName="HL7ActClass" displayName="Concern"/>
            <statusCode code="active"/>
            <effectiveTime xsi:type="IVL TS">
                <low value="20120630"/>
            </effectiveTime>
            <entryRelationship typeCode="SUBJ">
                <observation classCode="OBS" moodCode="EVN">
                    <templateId root="2.16.840.1.113883.10.20.22.4.4"/>
                    <id root="2.16.840.1.113883.3.464.1005.1"
                        extension="95005"/>
                    <code code="55607006" codeSystem="2.16.840.1.113883.6.96"
                          codeSystemName="SNOMED-CT" displayName="Problem"/>
                    <statusCode code="completed"/>
                    <effectiveTime xsi:type="IVL_TS">
                      <low value="20120630"/>
                    </effectiveTime>
                    <value xsi:type="CD" nullFlavor="OTH"
                           codeSystem="2.16.840.1.113883.6.96"
                           codeSystemName="SNOMED-CT">
                        <translation code="401.9"
                                     codeSystem="2.16.840.1.113883.6.103"
```

```
codeSystemName="ICD-9-CM"
                           displayName="EssentialhypertensionUnspecified"/>
                </value>
            </observation>
        </entryRelationship>
    </act>
</entry>
<entry typeCode="DRIV">
    <act classCode="ACT" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.22.4.3"/>
        <id nullFlavor="NI"/>
        <code code="CONC" codeSystem="2.16.840.1.113883.5.6"
              codeSystemName="HL7ActClass" displayName="Concern"/>
        <statusCode code="active"/>
        <effectiveTime xsi:type="IVL TS"><low value="20120622"/>
        </effectiveTime>
        <entryRelationship typeCode="SUBJ">
            <observation classCode="OBS" moodCode="EVN">
                <templateId root="2.16.840.1.113883.10.20.22.4.4"/>
                <id root="2.16.840.1.113883.3.464.1005.1"
                    extension="95005"/>
                <code code="55607006" codeSystem="2.16.840.1.113883.6.96"
                      codeSystemName="SNOMED-CT" displayName="Problem"/>
                <statusCode code="completed"/>
                <effectiveTime xsi:type="IVL TS">
                  <low value="20120622"/>
                </effectiveTime>
                <value xsi:type="CD" code="433146000"
                       codeSystem="2.16.840.1.113883.6.96"
                       codeSystemName="SNOMED-CT"
                       displayName="Chronickidneydiseasestage5disorder"/>
            </observation>
        </entryRelationship>
    </act>
</entry>
```

#### **Procedures Section**

The *Procedures* section defines all interventional, surgical, diagnostic and or therapeutic procedures or treatments pertinent to the patient's history at the time the document is generated.

		Fixed/	
Key Fields	Card	Dynamic	C-CDA Mapping
Section	1*	F	component/structuredBody/component/section
	1*	F	<templateid root="2.16.840.1.113883.10.20.22.2.7"></templateid>
	1*	F	<templateid root="2.16.840.1.113883.10.20.22.2.7.1"></templateid>
	11	F	<code <="" code="47519-4" td=""></code>
			codeSystem="2.16.840.1.113883.6.1"
			codeSystemName="LOINC"
			displayName="History of Procedures"/>
	11	F	<title>PROCEDURES</title>
Code Text	11	D	text
	1*	F	/entry/
Planned (INT) or	11	D	<procedure classcode="PROC" moodcode="[INT or&lt;/pre&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;completed Procedure&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;EVN]"></procedure>
(EVN)			
	1*	F	<templateid root="2.16.840.1.113883.10.20.22.4.14"></templateid>
	11	D	<id root="[Unique ID]"></id>
Procedure Code	11	D	<code <="" code="80146002" displayname="Appendectomy" td=""></code>
			codeSystemName="SNOMED CT"
			codeSystem="2.16.840.1.113883.6.96">
			[code could be CPT or HCPCS]
Procedure Statues	11	F	<statuscode code="[active or completed]"></statuscode>
Procedure start and end	11	D	<effectivetime></effectivetime>
date			<low value="[Service Date]"></low>
			<high value="[End Date]"></high>

Table	8: Proc	edures	Section	Constraints	Overview
IUNIC	0	<b>G</b> aal 60	00001011	001101101110	01011010

#### Figure 7: Procedures section example

```
. . .
<section>
   <!-- conforms to Procedures section with entries optional -->
   <templateId root="2.16.840.1.113883.10.20.22.2.7"/>
   <!-- Procedures section with entries required -->
   <templateId root="2.16.840.1.113883.10.20.22.2.7.1"/>
   <code code="47519-4" codeSystem="2.16.840.1.113883.6.1"
         codeSystemName="LOINC"
         displayName="HISTORY OF PROCEDURES"/>
   <title>PROCEDURES</title>
   <text>Procedure...</text>
   <entry typeCode="DRIV">
        <procedure classCode="PROC" moodCode="EVN">
           <!-- ** Procedure activity procedure ** -->
            <templateId root="2.16.840.1.113883.10.20.22.4.14"/>
           <id root="d68b7e32-7810-4f5b-9cc2-acd54b0fd85d"/>
            <code code="73761001" codeSystem="2.16.840.1.113883.6.96"
                 codeSystemName="SNOMED CT"
                displayName="Colonoscopy"/>
           <statusCode code="completed"/>
            <effectiveTime>
                <low value="201405010800"/>
                <high value="201405010900"/>
            </effectiveTime>
        </procedure>
   </entry>
```

### **Results Section**

The *Results* section contains the results of observations generated by laboratories and imaging and other procedures.

	Table 9:	Results	Section	<b>Constraints</b>	Overview
--	----------	---------	---------	--------------------	----------

		Fixed/	
Key Fields	Card	Dynamic	C-CDA Mapping
Section	1*		component/structuredBody/component/section
	1*	F	<templateid root="2.16.840.1.113883.10.20.22.2.3"></templateid>
	1*	F	<templateid root="2.16.840.1.113883.10.20.22.2.3.1"></templateid>
	11	F	<code <="" code="30954-2" td=""></code>
			codeSystem="2.16.840.1.113883.6.1"
			codeSystemName="LOINC"
			displayName="Relevant diagnostic tests
			and/or laboratory data "/>
title@text	11	F	<title>RESULTS</title>
Code Text	11	D	Text
lab	1*	F	/entry/
	11	F	<organizer classcode="CLUSTER" moodcode="EVN"></organizer>
	1*	F	<templateid root="2.16.840.1.113883.10.20.22.4.1"></templateid>
	1*	F/D	<id nullflavor="UNK"></id>
	11	F/D	<code nullflavor="UNK"></code>
	11	F/D	<statuscode code="completed"></statuscode>
	1*	F	<component></component>
	11	F	<observation classcode="OBS" moodcode="EVN"></observation>
	11	F	<templateid root="2.16.840.1.113883.10.20.22.4.2"></templateid>
	1*	D	<id root="cdbd33f0-6cde-11db-9fe1-0800200c9a66"></id>
Test	11	D	<code <="" code="30313-1" displayname="Hgb BldA-mCnc" td=""></code>
			codeSystem="2.16.840.1.113883.6.1"
			codeSystemName="LOINC"/>
			[code could be from CPT]
Status	11	F	<statuscode code="completed"></statuscode>
Observation Date	11	D	<effectivetime></effectivetime>
End Date			<low value="[Observation Date]"></low>
	/		<high value="[End Date]"></high>
value and units	11	D	<value unit="[units]" value="[value]" xsi:type="PQ"></value>



```
. . .
<section>
   <!-- conforms to Results section with entries optional -->
   <templateId root="2.16.840.1.113883.10.20.22.2.3"/>
   <!-- Results section with entries required -->
   <templateId root="2.16.840.1.113883.10.20.22.2.3.1"/>
   <code code="30954-2" codeSystem="2.16.840.1.113883.6.1"
          codeSystemName="LOINC"
        displayName="RESULTS"/>
   <title>RESULTS</title>
   <text>Results...</text>
   <entry typeCode="DRIV">
        <organizer classCode="BATTERY" moodCode="EVN">
            <!-- ** Result organizer ** -->
            <templateId root="2.16.840.1.113883.10.20.22.4.1"/>
            <id nullFlavor="UNK"/>
            <code nullFlavor="UNK"/>
            <statusCode code="completed"/>
            <component>
                <observation classCode="OBS" moodCode="EVN">
                    <!-- ** Result observation ** -->
                    <templateId root="2.16.840.1.113883.10.20.22.4.2"/>
                    <id root="107c2dc0-67a5-11db-bd13-0800200c9a66"/>
                    <code code="30313-1" displayName="HGB"
                          codeSystem="2.16.840.1.113883.6.1"
                        codeSystemName="LOINC"/>
                    <statusCode code="completed"/>
                    <effectiveTime>
                        <low value="20140601800"/>
                        <high value="20140601810"/>
                    </effectiveTime>
                    <value xsi:type="PQ" value="13.2" unit="g/dl"/>
                </observation>
            </component>
```

••

### **Vital Signs Section**

The Vital Signs section lists and describes any healthcare encounters pertinent to the patient's current health status or health history.

Table 10:	<b>Vitals Signs</b>	Section	Constraints	Overview
-----------	---------------------	---------	-------------	----------

		Fixed/	
Key Fields	Card	Dynamic	C-CDA Mapping
Section	1*		component/structuredBody/component/section
	1*	F	<templateid root="2.16.840.1.113883.10.20.22.2.4"></templateid>
	1*	F	<templateid root="2.16.840.1.113883.10.20.22.2.4.1"></templateid>
	11	F	<code <="" code="8716-3" td=""></code>
			codeSystem="2.16.840.1.113883.6.1"
			codeSystemName="LOINC"
			displayName="Vital Signs"/>
title@text	11	F	<title>Vital Signs</title>
Code Text	11	D	text
lab	1*	F	/entry/
	11	F	<organizer classcode="CLUSTER" moodcode="EVN"></organizer>
	1*	F	<templateid root="2.16.840.1.113883.10.20.22.4.26"></templateid>
	1*	F	<id nullflavor="UNK"></id>
	11	F	<code <="" code="46680005" td=""></code>
			codeSystem="2.16.840.1.113883.6.96"
			codeSystemName="SNOMED-CT"
			displayName="Vital signs" />
	11	F	<statuscode code="completed"></statuscode>
	1*	F	<component></component>
	11	F	<observation classcode="OBS" moodcode="EVN"></observation>
	11	F	<templateid root="2.16.840.1.113883.10.20.22.4.27"></templateid>
	1*	D	<id root="cdbd33f0-6cde-11db-9fe1-0800200c9a66"></id>
Test	11	D	<code <="" code="8302-2" td=""></code>
			codeSystem="2.16.840.1.113883.6.1"
			codeSystemName="LOINC"
			displayName="Height" />
			[code could be from CPT]
Status	11	F	<statuscode code="completed"></statuscode>
Oberservation Date	11	D	<effectivetime date]="" value="[Observation"></effectivetime>
value and units	11	D	<value unit="[units]" value="[value]" xsi:type="PQ"></value>

#### Figure 9: Vital Signs section example

```
. . .
<section>
   <!-- conforms to Vital Signs section with entries optional -->
   <templateId root="2.16.840.1.113883.10.20.22.2.4"/>
   <!-- Vital Signs section with entries required -->
   <templateId root="2.16.840.1.113883.10.20.22.2.4.1"/>
   <code code="8716-3" codeSystem="2.16.840.1.113883.6.1"
          codeSystemName="LOINC"
        displayName="VITAL SIGNS"/>
   <title>VITAL SIGNS</title>
   <text>Vital Sign...</text>
   <entry typeCode="DRIV">
        <organizer classCode="CLUSTER" moodCode="EVN">
            <!-- ** Vital signs organizer ** -->
            <templateId root="2.16.840.1.113883.10.20.22.4.26"/>
            <id nullFlavor='UNK'/>
            <code code="46680005" codeSystem="2.16.840.1.113883.6.96"
                  codeSystemName="SNOMED-CT"
                  displayName="Vital signs"/>
            <statusCode code="completed"/>
            <effectiveTime value="19991114"/>
            <component>
                <observation classCode="OBS" moodCode="EVN">
                    <!-- ** Vital sign observation ** -->
                    <templateId root="2.16.840.1.113883.10.20.22.4.27"/>
                    <id root="c6f88321-67ad-11db-bd13-0800200c9a66"/>
                    <code code="8302-2" codeSystem="2.16.840.1.113883.6.1"
                          codeSystemName="LOINC"
                        displayName="Height"/>
                    <statusCode code="completed"/>
                    <effectiveTime value="19991114"/>
                    <value xsi:type="PQ" value="177" unit="cm"/>
                </observation>
            </component>
         </organizer>
   </entry>
```

#### **No Information**

The CCD will include a nullFlavor of No Information ('NI') at the section level when no information is pertinent for a section.

Any section not relevant to the measure being tested will include this nullFlavor. The HL7 SDWG approved this approach after publication of C-CDA R1.1; the MU2 SITE validator (<u>http://sitenv.org/</u>) supports this change.

Figure 10: No Information section example

```
...
<section nullFlavor="NI">
        <templateId root="2.16.840.1.113883.10.20.22.2.6.1"/>
        <code code="48765-2" codeSystem="2.16.840.1.113883.6.1"
            codeSystemName="LOINC" displayName="Allergies"/>
            <title>ALLERGIES, ADVERSE EVENTS and ALERTS</title>
            <text>No Allergies Information</text>
</section>
...
```

## **APPENDIX G**

## Quality Reporting Document Architecture (QRDA) Category I & III Report Layouts

#### **QRDA Category I File Layouts**

<b>QRDA</b> Category	I	TBD

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#### **QRDA Category III**

This specification outlines the key fields to include in your QRDA Category III report for scoring.

#### Table 11: Supported QRDA Category III Report Layout Templates

Template Title	Template Type	Template ID
QRDA Category III Report	document	2.16.840.1.113883.10.20.27.1.1
Reporting Parameters	section	2.16.840.1.113883.10.20.27.2.2
Reporting Parameters Act	entry	2.16.840.1.113883.10.20.17.3.8
Measure Section	section	2.16.840.1.113883.10.20.27.2.1
Measure Reference and Results	entry/organizer	2.16.840.1.113883.10.20.27.3.1
Measure Data	entry	2.16.840.1.113883.10.20.27.3.
Aggregate Count	entry	2.16.840.1.113883.10.20.27.3.24
Ethnicity Supplemental Data Element	entry	2.16.840.1.113883.10.20.27.3.22
*Aggregate Count	entry	2.16.840.1.113883.10.20.27.3.24
Race Supplemental Data Element	entry	2.16.840.1.113883.10.20.27.3.19
*Aggregate Count	entry	2.16.840.1.113883.10.20.27.3.24
Sex Supplemental Data Element	entry	2.16.840.1.113883.10.20.27.3.21
*Aggregate Count	entry	2.16.840.1.113883.10.20.27.3.24
Payer Supplemental Data Element	entry	2.16.840.1.113883.10.20.27.3.18
*Aggregate Count	entry	2.16.840.1.113883.10.20.27.3.24

\*These are stratified aggregate counts for the supplemental data elements, which use the same aggregate count template that is described after Measure Data.

#### **QRDA Category III Document Header**

The QRDA Category III header contains information on the report attributes (e.g. date/time, clinical document type) and roles (who/what created the report, provider(s) submitting data, and the EHR software that processed the report data).

Table 2: QRDA	<b>Category</b>	<b>III Header</b>	Constraints	<b>Overview</b>
---------------	-----------------	-------------------	-------------	-----------------

Key Fields	Card	Fixed/ Dynamic	Fixed Value/Format
ClinicalDocument		F	xml version="1.0"? <clinicaldocument xmlns:sdtc="urn:hl7-org:sdtc" xmlns:cda="urn:hl7-org:v3" xmlns="urn:hl7-org:v3" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"&gt;</clinicaldocument 
		F	<realmcode code="US"></realmcode>
		F	<typeid <br="" extension="POCD_HD000040">root="2.16.840.1.113883.1.3"/&gt;</typeid>
		F	<templateid root="2.16.840.1.113883.10.20.27.1.1"></templateid>
Unique document ID		D	<id root="[System Generated]"></id>
		F	<code <br="" code="55184-6" displayname="Quality Reporting&lt;br&gt;Document Architecture Calculated Summary Report">codeSystemName="LOINC" codeSystem="2.16.840.1.113883.6.1"/&gt;</code>
Measure Title CMS ID + Release Version #		D	<title> QRDA Calculated Summary Report for Measure Title CMSID Version Number</title>
		D	<effectivetime value="YYYYMMDD"></effectivetime>
		F	<confidentialitycode <br="" code="N">codeSystem="2.16.840.1.113883.5.25"/&gt;</confidentialitycode>
		F	<languagecode code="en-US"></languagecode>
Release Version #		D	<versionnumber value="Version Number"></versionnumber>
recordTarget		F	<recordtarget> <patientrole> <id nullflavor="NA"></id> </patientrole> </recordtarget>
author		F	<author></author>
		D	<time value="YYYYMMDDHHMMSS"></time>
		D	<assignedauthor> <!-- VENDOR OID--> <id root="[System Generated]"></id></assignedauthor>
Authoring Device		D	<assignedauthoringdevice> <softwarename><b>Vendor's Software</b> <b>Name</b></softwarename> </assignedauthoringdevice>
Organization		D	<representedorganization> <!-- VENDOR OID--> <id root="2.16.840.1.113883.3.464"></id></representedorganization>
		D	<name>Vendor's Company Name</name>
		D	<telecom use="WP" value="tel: 202-955-3500"></telecom>

Key Fields	Card	Fixed/ Dynamic	Fixed Value/Format
Organization's Address		D	<addr use="WP"> <streetaddressline>Vendor's Street Address</streetaddressline> <city>Vendor's City</city> <state>Vendor State</state> <postalcode>Vendor Zip</postalcode> <country>US</country> </addr>   
custodian		F	<custodian></custodian>
		D	<assignedcustodian> <representedcustodianorganization> <!-- CLIENT OID--> <id root="2.16.840.1.113883.3.464"></id></representedcustodianorganization></assignedcustodian>
		F	<name>National Committee for Quality Assurance (NCQA)</name>
		F	<telecom use="WP" value="tel: 202-955-3500"></telecom>
		F	<addr use="WP"> <streetaddressline>1100 13th St., NW Suite 1000</streetaddressline> <city>Washington</city> <state>DC</state> <postalcode>20005</postalcode> <country>US</country> </addr>   
legalAuthenticator		F	<legalauthenticator></legalauthenticator>
		D	<pre><time value="YYYYMMDDHHMMSS + TimeZone"></time></pre>
		F	<signaturecode code="S"></signaturecode>
		D	<assignedentity> <!-- Vendor OID--> <id root="2.16.840.1.113883.3.464"></id></assignedentity>
		D	<representedorganization></representedorganization>
		D	<name>Vendor Company Name</name>
		D	<telecom use="WP" value="tel: 202-955-3500"></telecom>

Key Fields	Card	Fixed/ Dynamic	Fixed Value/Format
		D	<addr use="WP"> <ul> <li><addr use="WP"></addr></li> <li><streetaddressline>Vendor's Street Address</streetaddressline></li> <li></li> <li><city>Vendor City</city></li> <li><state>Vendor State</state></li> <li><postalcode>Vendor Zip</postalcode></li> <li><country>US</country></li> <li></li></ul></addr> <li></li> <li></li> <li></li>

#### Figure 1: QRDA Category III Header Example





#### **Reporting Parameters Section**

The Reporting Parameters Section lists information on the time interval for the reporting period.

Key Fields	Card	Fixed/ Dynamic	Fixed Value/Format
Section	1*	F	component/structuredBody/component/section
	11	F	<templateld root="2.16.840.1.113883.10.20.17.2.1"></templateld>
	11	F	<templateld root="2.16.840.1.113883.10.20.27.2.2"></templateld>
	11	F	<code <br="" code="55187-9" codesystemname="LOINC">codeSystem=" 2.16.840.1.113883.6.1"/&gt;</code>
	11	F	<title>Reporting Parameters</title>
SectionText	11	D	<text>Reporting Period:1/1/YYYY-12/31/YYYY</text>
	1*	F	<entry typecode="DRIV"></entry>
Reporting Parameters Act	11	F	<act classcode="ACT" moodcode="EVN"></act>
	11	F	<templateld root="2.16.840.1.113883.10.20.17.3.8"></templateld>
	1*	D	<id [unique="" id]"="" root="[System Identifier]&lt;br&gt;' extension="></id> or <id root="[Global Unique&lt;br&gt;ID]"></id>
Activity Type	11	F	<code <br="" code="252116004">displayName="Observation Parameters" codeSystemName="SNOMED CT" codeSystem="2.16.840.1.113883.6.96"</code>
Effective Time	11	D	<effectivetime> <low value="[YYYY0101]"></low> <high value="[YYYY1231]"></high> </effectivetime>

#### Table 3: Reporting Parameters Section Constraints Overview

Note: Bolded values in the table indicate that the item should be updated by the vendor.

#### Figure 2: Reporting Parameters Section Example



#### **Measure Section**

The *Measure Section* provides information on the measure being reported. This section encompasses the entries for the Measure Data section and its aggregate counts, as well as each Supplemental Data Elements' stratified aggregate counts.

Table 4: Measu	re Section	Constraints	<b>Overview</b>
----------------	------------	-------------	-----------------

Key Fields	Card	Fixed/ Dynamic	Fixed Value/Format
Section	1*	F	component/structuredBody/component/section
	11	F	<templateid root=" 2.16.840.1.113883.10.20.24.2.2"></templateid>
	11	F	<templateid root="2.16.840.1.113883.10.20.27.2.1"></templateid>
	11	F	<code <br="" code=" 55186-1" codesystemname="LOINC">codeSystem=" 2.16.840.1.113883.6.1"/&gt;</code>
	11	F	<title>Measure Section</title>
Measure Section Text	11	D	<text> <thead>  Population Population  Count  Count  Count   Count    Count     Count  <th< td=""></th<></thead></text>

Key Fields	Card	Fixed/ Dynamic	Fixed Value/Format
	11	F	<entry></entry>
Measure Reference and Results	1*	F	<organizer classcode="CLUSTER" moodcode="EVN"></organizer>
	11	F	<templateid root="2.16.840.1.113883.10.20.24.3.98"></templateid>
	11	F	<templateid root="2.16.840.1.113883.10.20.27.3.1"></templateid>
	11	F	<statuscode code="completed"></statuscode>
	11	F	<reference typecode="REFR"></reference>
	11	F	<externaldocument classcode="DOC" moodcode="EVN"></externaldocument>
	1*	D	<id extension="Measure Version GUID" root="2.16.840.1.113883.4.738"></id>
	11	F	<code <br="" code="57024-2">displayName="Health Quality Measure Document" codeSystemName="LOINC" codeSystem="2.16.840.1.113883.6.1"</code>
	11	D	<text>Measure Title</text> <versionnumber value="Measure Version Number"></versionnumber>

#### Figure 3: Measure Section Example

```
<component>
  <section>
      <templateId root="2.16.840.1.113883.10.20.24.2.2"/>
      <templateId root="2.16.840.1.113883.10.20.27.2.1"/>
      <code code="55186-1" codeSystemName="LOINC" codeSystem="2.16.840.1.113883.6.1"/>
      <title>Measure Section</title>

    <text>

       - 
          - <thead>
             - 
                  Population
                  Count
               </thead>
          - 
             - 
                - 
                     <content ID="pop1">IPP</content>
                  - 
                     <content ID="count1">417</content>
                  - 
                - 
                     <content ID="pop2">DENOM</content>
                  - >
                     <content ID="count2">417</content>
                 - >
                     <content ID="pop3">DENEX</content>
                  - 
                     <content ID="count3">140</content>
                  - 
                - >
                     <content ID="pop4">NUMER</content>
                  - 
                    <content ID="count4">35</content>
                  </text>

    <entry>

    <organizer moodCode="EVN" classCode="CLUSTER">

            <templateId root="2.16.840.1.113883.10.20.24.3.98"/>
            <templateId root="2.16.840.1.113883.10.20.27.3.1"/>
            <statusCode code="completed"/>

    <reference typeCode="REFR">

    <externalDocument moodCode="EVN" classCode="DOC">

                  <id extension="40280381-3d61-56a7-013e-66bc02da4dee" root="2.16.840.1.113883.4.738"/>
                  <code code="57024-2" displayName="Health Quality Measure Document" codeSystemName="LOINC"
                    codeSystem="2.16.840.1.113883.6.1"/>
                  <text>Controlling High Blood Pressure</text>
                  <versionNumber value="1"/>
               </externalDocument>
            </reference>
          - <component>
```

#### **Measure Data**

The *Measure Data* contains a single measure population count. For example, there is one measure data component for the measure's initial patient population (IPP), denominator (DENOM), denominator exclusions (DENEX), and numerator (NUM). The stratified aggregated counts for the supplemental data elements are listed for each population. There should be only one node for each supplemental data element's entire stratified count per population.

Key Fields	Card	Fixed/ Dynamic	Fixed Value/Format
observation	1*	F	component/observation
	11	F	<observation classcode="OBS" moodcode="EVN"></observation>
	11	F	<templateid root="2.16.840.1.113883.10.20.27.3.5"></templateid>
	11	F	<code <br="" code="ASSERTION" displayname="Assertion">codeSystemName="ActCode" codeSystem="2.16.840.1.113883.5.4"/&gt;</code>
	11	F	<statuscode code="completed"></statuscode>
	11	D	<value <br="" code="IPP" codesystemname="ObservationValue" displayname="initial patient&lt;br&gt;population">codeSystem="2.16.840.1.113883.5.1063" xsi:type="CD"/&gt;</value>
		F	<entryrelationship inversionind="true" typecode="SUBJ"></entryrelationship>
Aggregate Count		D	**! Aggregate Count Template Follows!**

#### **Table 5: Measure Data Constraints Overview**

Note: Bolded values in the table indicate that the item should be updated by the vendor.

#### Figure 4: Measure Data Example

#### Aggregate Count

The *Aggregate Count* lists the aggregated numbers for the parent template (e.g. the number of patients in the IPP, DENOM, DENEX, NUM, and Supplemental Data Elements).

Key Fields	Card	Fixed/ Dynamic	Fixed Value/Format
observation	1*	F	component/observation
	11	F	<observation classcode="OBS" moodcode="EVN"></observation>
	11	F	<templateid root="2.16.840.1.113883.10.20.27.3.3"></templateid>
	11	F	<code <br="" code="MSRAGG" displayname="rate aggregation">codeSystemName="ActCode" codeSystem="2.16.840.1.113883.5.4"/&gt;</code>
	11	D	<value value="&lt;b&gt;417&lt;/b&gt;" xsi:type="INT"></value>
	11	F	<methodcode <br="" code="COUNT" displayname="count">codeSystemName="ObservationMethod" codeSystem="2.16.840.1.113883.5.84"/&gt;</methodcode>

Note: Bolded values in the table indicate that the item should be updated by the vendor.

#### Figure 5: Aggregate Count Example

#### **Ethnicity Supplemental Data Element**

The *Ethnicity Supplemental Data Element* provides the number of patients in the population that are Hispanic or not Hispanic.

Key Fields	Card	Fixed/ Dynamic	Fixed Value/Format
observation	11	F	component/observation
	11	F	<observation classcode="OBS" moodcode="EVN"></observation>
	11	F	<templateid root="2.16.840.1.113883.10.20.27.3.7"></templateid>
	11	F	<code <br="" code="364699009" displayname="Ethnic Group">codeSystemName="SNOMED-CT" codeSystem="2.16.840.1.113883.6.96"/&gt;</code>
	11	F	<statuscode code="completed"></statuscode>
	11	D	<value <br="" code="&lt;b&gt;2135-2&lt;/b&gt;" displayname="&lt;b&gt;Hispanic or Latino&lt;/b&gt;">codeSystemName="Race &amp; Ethnicity - CDC" codeSystem="2.16.840.1.113883.6.238" xsi:type="CD"/&gt;</value>
	11	F	<entryrelationship inversionind="true" typecode="SUBJ"></entryrelationship>
Aggregate Count	11		**! Aggregate Count Template Follows!**

#### Table 7: Ethnicity Supplemental Data Element Constraints Overview

Note: Bolded values in the table indicate that the item should be updated by the vendor.

#### Figure 6: Ethnicity Supplemental Data Element Example

```
<observation moodCode="EVN" classCode="OBS">
   <templateId root="2.16.840.1.113883.10.20.27.3.7"/>
   <code code="364699009" displayName="Ethnic Group" codeSystemName="SNOMED-CT"
      codeSystem="2.16.840.1.113883.6.96"/>
   <statusCode code="completed"/>
   <value code="2135-2" displayName="Hispanic or Latino" codeSystemName="Race & Ethnicity - CDC"
      codeSystem="2.16.840.1.113883.6.238" xsi:type="CD"/>
   <entryRelationship typeCode="SUBJ" inversionInd="true">

    <observation moodCode="EVN" classCode="OBS"</li>

          <templateId root="2.16.840.1.113883.10.20.27.3.3"/>
          <code code="MSRAGG" displayName="rate aggregation" codeSystemName="ActCode"
             codeSystem="2.16.840.1.113883.5.4"/>
          <value value="123" xsi:type="INT"/>
          <methodCode code="COUNT" displayName="count" codeSystemName="ObservationMethod"
             codeSystem="2.16.840.1.113883.5.84"/>
       </observation>
```

#### Race Supplemental Data Element

The *Race Supplemental Data Element* provides the number of patients in the population that report a race category. For CMS EP programs, all codes in the value set must be reported, even if the count is zero (e.g. Counts for American Indian or Alaska Native, Asian, Black or African American, Native Hawaiian or Other Pacific Islander, and White must all be listed).

Key Fields	Card	Fixed/ Dynamic	Fixed Value/Format
observation	11	F	component/observation
	11	F	<observation classcode="OBS" moodcode="EVN"></observation>
	11	F	<templateid root="2.16.840.1.113883.10.20.27.3.8"></templateid>
	11	F	<code <br="" code="103579009" displayname="Race">codeSystemName="SNOMED-CT" codeSystem="2.16.840.1.113883.6.96"/&gt;</code>
	11	F	<statuscode code="completed"></statuscode>
	11	D	<value <br="" code="2076-8" codesystem="2.16.840.1.113883.6.238" codesystemname="Race &amp;&lt;br&gt;Ethnicity - CDC" displayname="Native Hawaiian or&lt;br&gt;Other Pacific Islander">xsi:type="CD"/&gt;</value>
	11	F	<pre><entryrelationship inversionind="true" typecode="SUBJ"></entryrelationship></pre>
Aggregate Count	11	D	**! Aggregate Count Template Follows!**

#### Table 8: Race Supplemental Data Element Constraints Overview

Note: Bolded values in the table indicate that the item should be updated by the vendor.

#### Figure 7: Race Supplemental Data Element Example

#### Sex Supplemental Data Element

The Sex Supplemental Data Element provides the number of patients in the population that are a particular sex (e.g. the number of patients who are male, female, or unknown).

Table 9: Sex Supplemental	Data Element	<b>Constraints Overview</b>
---------------------------	--------------	-----------------------------

Key Fields	Card	Fixed/ Dynamic	Fixed Value/Format
observation	11	F	component/observation
	11	F	<observation classcode="OBS" moodcode="EVN"></observation>
	11	F	<templateid root="2.16.840.1.113883.10.20.27.3.6"></templateid>
	11	F	<code <br="" code="184100006" displayname="patient sex">codeSystemName="SNOMED-CT" codeSystem="2.16.840.1.113883.6.96"/&gt;</code>
	11	F	<statuscode code="completed"></statuscode>
	11	D	<value <br="" code="M" displayname="Male">codeSystemName="HL7AdministrativeGenderCode" codeSystem="2.16.840.1.113883.5.1" xsi:type="CD"/&gt;</value>
	11	F	<pre><entryrelationship inversionind="true" typecode="SUBJ"></entryrelationship></pre>
Aggregate Count	11	D	**! Aggregate Count Template Follows!**

Note: Bolded values in the table indicate that the item should be updated by the vendor.

#### Figure 8: Sex Supplemental Data Element Example



#### Payer Supplemental Data Element

The *Payer Supplemental Data Element* provides the number of patients in the population that are covered by a particular policy or program. All payer codes present for the patients in the population should be reported.

Key Fields	Card	Fixed/ Dynamic	Fixed Value/Format
observation	11	F	component/observation
	11	F	<observation classcode="OBS" moodcode="EVN"></observation>
	11	F	<templateid root="2.16.840.1.113883.10.20.24.3.55"></templateid>
	11	F	<templateid root="2.16.840.1.113883.10.20.27.3.9"></templateid>
	11	D	<id "="" nullflavor="NA"></id>
	11	F	<code <br="" code="48768-6" displayname="Payment source">codeSystemName="LOINC" codeSystem="2.16.840.1.113883.6.1"/&gt;</code>
	11	F	<statuscode code="completed"></statuscode>
	11	D	<value <br="" code="&lt;b&gt;3711&lt;/b&gt;" displayname="&lt;b&gt;HMO&lt;/b&gt;">codeSystemName="Source of Payment Typology" codeSystem="2.16.840.1.114222.4.11.3591" xsi:type="CD"/&gt;</value>
	11	F	<pre><entryrelationship inversionind="true" typecode="SUBJ"></entryrelationship></pre>
Aggregate Count	11	D	**! Aggregate Count Template Follows!**

#### Table 10: Payer Supplemental Data Element Constraints Overview

Note: Bolded values in the table indicate that the item should be updated by the vendor.

#### Figure 9: Payer Supplemental Data Element Example



## **APPENDIX H**

### **Resource Links**

#### eCQM

#### CMS eCQM Library

 <u>http://www.cms.gov/Regulations-and-</u> Guidance/Legislation/EHRIncentivePrograms/eCQM\_Library.html

#### CMS Guide for Reading eCQMs

 <u>http://www.cms.gov/Regulations-and-</u> Guidance/Legislation/EHRIncentivePrograms/Downloads/eMeasures\_GuidetoReading.pdf

### CCD

Journal of American Medical Informatics Association (JAMIA)—Health Level 7 (HL7) Clinical Document Architecture, Release 2

http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1380194/

#### QRDA

#### **QRDA** Informative Document

 <u>http://www.cms.gov/Regulations-and-</u> Guidance/Legislation/EHRIncentivePrograms/Downloads/Guide\_QRDA\_2014eCQM.pdf

CMS Implementation Guide for QRDA Category I and III

 <u>http://www.cms.gov/Regulations-and-</u> Guidance/Legislation/EHRIncentivePrograms/Downloads/QRDA\_EP\_HQR\_Guide\_2015.pdf

2014 CMS QRDA I Implementation Guides for Eligible Professionals Clinical Quality Measures

- <u>http://www.cms.gov/Regulations-and-</u> Guidance/Legislation/EHRIncentivePrograms/Downloads/QRDA I CMS EP 2014 v40.zip
- 2014 CMS QRDA III Implementation Guides for Eligible Professionals Clinical Quality Measures
- <u>http://www.cms.gov/Regulations-and-</u> Guidance/Legislation/EHRIncentivePrograms/Downloads/QRDA\_III\_CMS\_EP\_2014\_IG\_Vol1.zip