



Overview of Emerging Standards in Clinical Quality Measurement and Reporting

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Healthcare Intelligence



Session

Overview of Emerging Standards in Clinical Quality Measurement and Reporting

September 14, 2011 – 1:15 pm

@ HIMSS – Iowa Chapter

By

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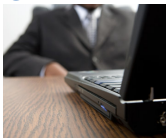
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Disclosure

Conflict of interest disclosure

Srinivas Velamuri,
Software Architect, Telligen
Has no real or apparent
conflicts of interest to report



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Learning Objectives

After this session, you should be able to:

- ❖ Know the HL7 standards used in Clinical Quality Measures and Reporting – HQMF and QRDA
- ❖ Know the structure of a QRDA report and learn different QRDA categories
- ❖ Learn the basics of eMeasures and what they mean to EHR vendors and payers



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About Telligen

Telligen (formerly IFMC), a leader in Clinical Quality Measurement and Reporting, serves commercial and government clients by providing solutions for:

- ❖ Quality Improvement
- ❖ Health IT
- ❖ Care Management



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Outline

- ❖ Quality Reporting vs. Meaningful use
- ❖ Relationship of Quality Standards
- ❖ Quality Reporting workflow
- ❖ Overview of QRDA
- ❖ Clinical Document Architecture (CDA)
- ❖ QRDA Categories
- ❖ HQMF and eMeasures



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Quality Reporting – why now?



As per American Recovery and Reinvestment Act (ARRA) of 2009: To demonstrate meaningful use successfully, eligible professionals, eligible hospitals and Critical Access Hospitals (CAHs) are required to report clinical quality measures specific to eligible professionals or eligible hospitals and CAHs.



Source: CMS

Clinical Quality Measures



- ❖ **Example: NQF 0055 or PQRI 117: Diabetes: Eye Exam:** Percentage of patients 18-75 years of age with diabetes (type 1 or type 2) who had a retinal or dilated eye exam or a negative retinal exam (no evidence of retinopathy) by an eye care professional.



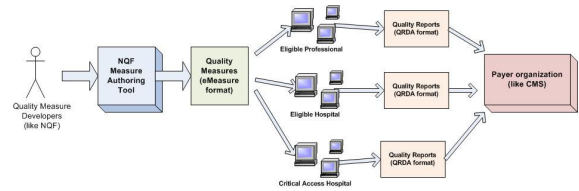
Relationship of Quality Standards



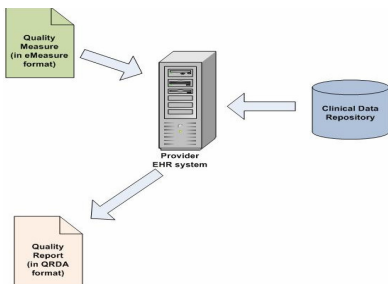
- ❖ HL7 came up with the standard - **Quality Reporting Document Architecture (QRDA)** for Clinical Quality Reporting purposes.
- ❖ HL7 also came up the standard - **Health Quality Measures Format (HQMF)** for representing the Clinical Quality Measures in electronic format.



Quality Reporting – Workflow (future)



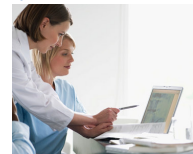
Workflow at Provider EHR (future)



Overview of QRDA



- ❖ QRDA stands for **Quality Reporting Document Architecture**.
- ❖ QRDA is a **HL7 standard** for **Quality Reporting**.
- ❖ Built on top of HL7 standard - **Clinical Document Architecture (CDA R2)**
- ❖ QRDA document is essentially a XML document that could be rendered on a web browser



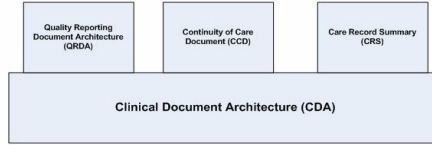
QRDA relationship to CDA



- ❖ QRDA borrows its structure from CDA Release 2, an ANSI approved HL7 standard
- ❖ QRDA further constrains the CDA standard for Quality Reporting purposes
- ❖ A Quality Report that is compliant with QRDA, will automatically be compliant with CDA standard



QRDA relationship to CDA



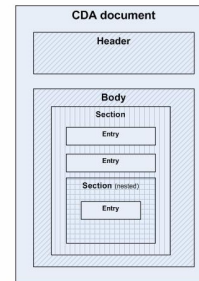
CDA Structure



- ❖ A CDA document contains a header and a body
- ❖ Header contains the metadata information about document such as author, patient demographics ..
- ❖ Body portion of the document contains the clinical content
- ❖ Document body contains several nested sections or entries



CDA Structure



CDA Sample in web browser



Good Health Clinic Continuity of Care Document

Field	Value	Field	Value
Author	Robert Clark, MD	Sex	Male
Date of birth	September 26, 1955	Address (or address)	906-755-455 215 9401 E. 133RD ST S
Clearinghouse	906-755-455	Address (or address)	906-755-455 215 9401 E. 133RD ST S
Document ID	827644276914261484-846762692703	Document ID	827644276914261484-846762692703
Document ID	827644276914261484-846762692703	Document ID	827644276914261484-846762692703
Author	Dr. Robert Clark, Good Health Clinic	Author	Dr. Robert Clark, Good Health Clinic

Table of Contents

- Continuity of Care Document
- Header
- Body
- Section
- Entry
- Section (nested)
- Entry

CDA Sample in web browser (contd.)



Admission Discharge

Effective Date	Effective Status	Condition Status
1999	Active	Active
1999	Active	Active

Functional Status

Effective Date	Effective Status	Condition Status
1999	Active	Active
1999	Active	Active

Problems

Effective Date	Effective Status	Condition Status
1999	Active	Active
1999	Active	Active

Industry participation



- ❖ Organizations like CMS and NQF are very active in implementing the Quality reporting and measurement standards
- ❖ CMS implemented QRDA Category-I standard for their Physician Quality Reporting System (PQRS) program. Various EHR vendors are already participating this program to generate the quality reports in QRDA Category-I format
- ❖ NQF developed Measure Authoring Tool (MAT) to generate eMeasures for various Clinical Quality Measures with active participation from Telligen
- ❖ It is expected that in the near future, the EHR systems might start consuming the eMeasures and generate the Patient Quality reports by adhering to standards like QRDA (Cat I, II and III)



Questions?



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