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The Role of Standards in Quality Measurement

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Public Webinar

CDA ACADEMY

CDA Academy Workshop Preview
September 12, 2013
2-3 PM Eastern

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Housekeeping

- Recording available at: www.lantanagroup.com/resources/presentations.
- Comments and questions are welcome.

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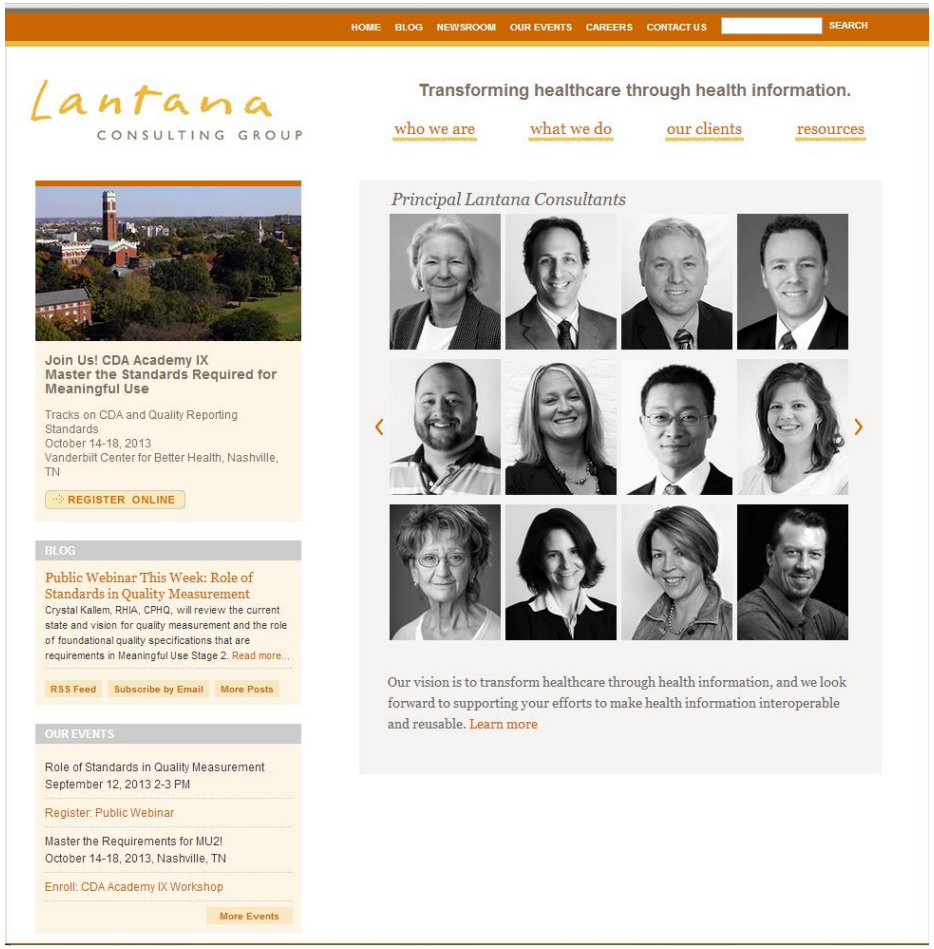
Mission: Information driven healthcare

- Staff of 35, 26 consultants
- Interoperability experts
  - Over two dozen standards developed, including key requirements in Meaningful Use
  - Services include quality reporting, implementation, standards development, architecture, strategy, compliance and certification, terminology, and training
  - Clients include startups, Fortune 100 companies, public and private organizations



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Presenter Introduction

Crystal Kallem, RHIA, CPHQ
Director, Business Analysis & Policy
Lantana Consulting Group

- CDA Academy Faculty
- Leads Lantana's Policy Center of Excellence
- Co-chair, HL7 Clinical Quality Information Work Group
- Member, Iowa Health IT Regional Extension Center Advisory Committee

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Agenda

I. Quality reporting in Meaningful Use Stage 2
II. Relationships between quality reporting standards
III. Putting it all together

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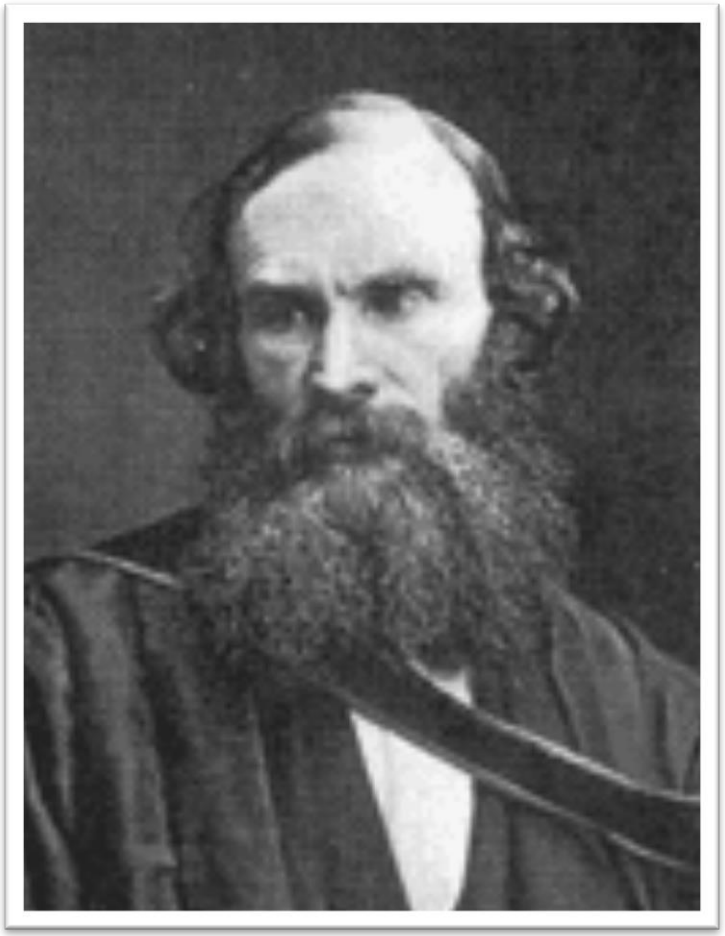
Standards Are a Prerequisite to Functionality



"If you cannot measure it, you cannot improve it."

Lord Kelvin (1824-1907)

"If you cannot standardize it, you cannot measure it."

Bob Dolin, MD (2013)

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QUALITY REPORTING IN MEANINGFUL USE STAGE 2

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Quality Reporting in Meaningful Use Stage 2 (MU2)

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§ 170.314 (c) Clinical Quality Measures (1) Clinical quality measures—capture and export	
(i) Capture	For each and every CQM for which the EHR technology is presented for certification, EHR technology must be able to electronically record all of the data identified in the standard specified at § 170.204(c) that would be necessary to calculate each CQM. Data required for CQM exclusions or exceptions must be codified entries, which may include specific terms as defined by each CQM, or may include codified expressions of "patient reason," "system reason," or "medical reason."
(ii) Export	EHR technology must be able to electronically export a data file formatted in accordance with the standards specified at **§ 170.205(h)** that includes all of the data captured for each and every CQM to which EHR technology was certified under paragraph (c)(1)(i) of this section.
(2) Clinical quality measures—import and calculate	
(i) Import	EHR technology must be able to electronically import a data file formatted in accordance with the standard specified at **§ 170.205(h)** and use such data to perform the capability specified in paragraph (c)(2)(ii) of this section. EHR technology presented for certification to all three of the certification criteria adopted in paragraphs (c)(1) through (3) of this section is not required to meet paragraph (c)(2)(i).
(ii) Calculate	EHR technology must be able to electronically calculate each and every clinical quality measure for which it is presented for certification.
(3) Clinical quality measures—electronic submission	
	Enable a user to electronically create a data file for transmission of clinical quality measurement data: (i) In accordance with the standards specified at **§ 170.205(h) and (k)**; and (ii) That can be electronically accepted by CMS.

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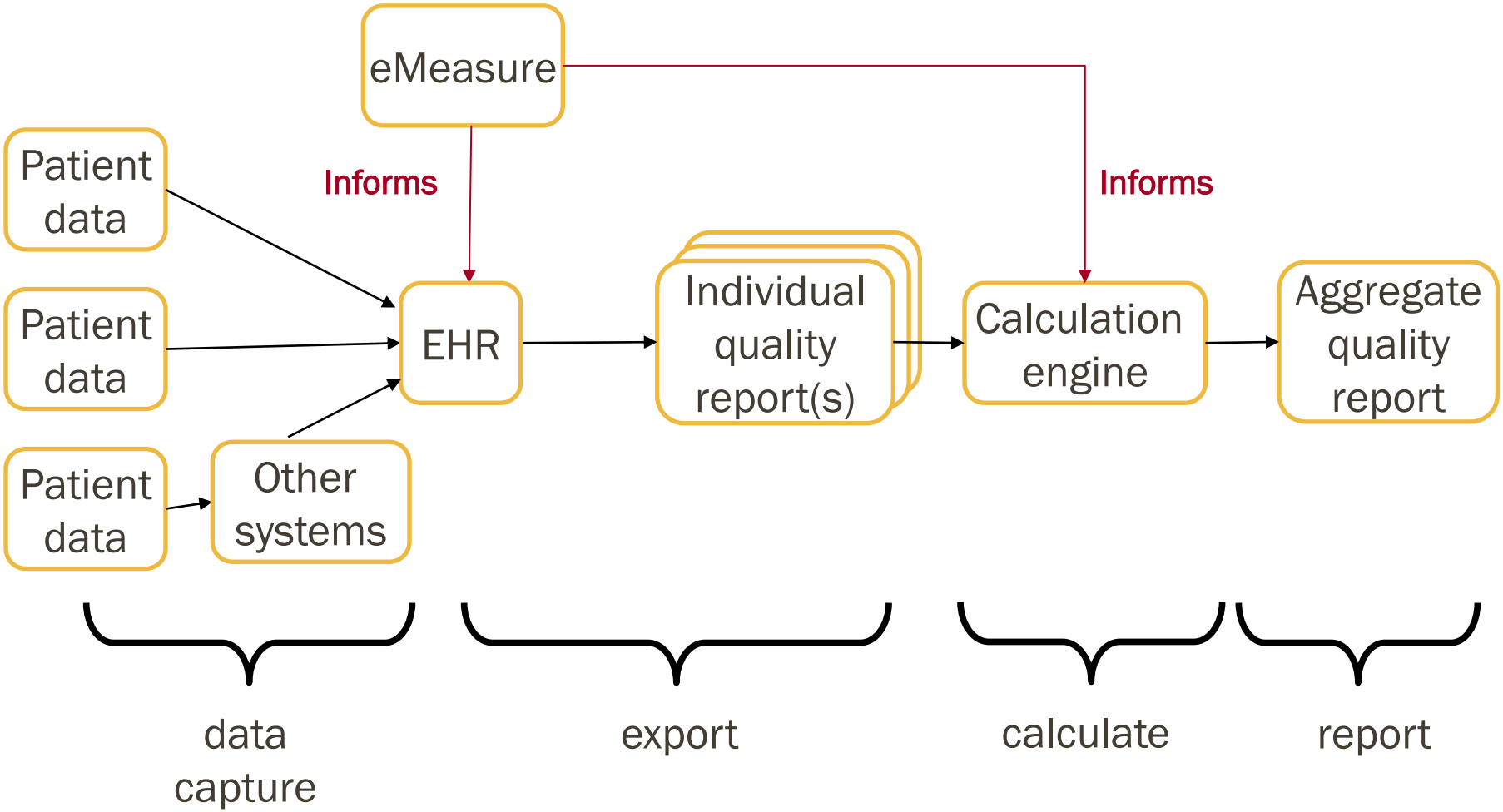
Quality Reporting in MU2



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RELATIONSHIPS BETWEEN QUALITY REPORTING AND STANDARDS

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Quality Reporting Standards

- National Quality Forum (NQF)
  - Quality Data Model (QDM)
- Health Level Seven International (HL7)
  - Clinical Document Architecture (CDA)
    - Quality Reporting Document Architecture (QRDA)
  - Health Quality Measure Format (HQMF/eMeasure)
    - QDM-based HQMF implementation guide (IG)

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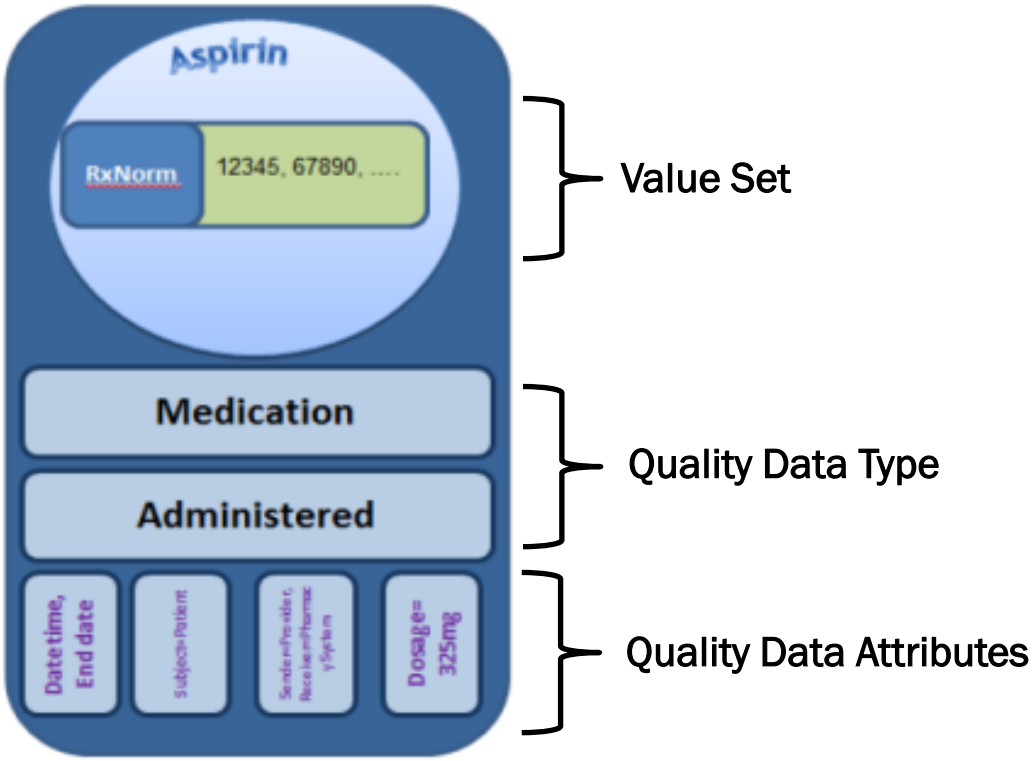
Data Capture:
NQF Quality Data Model

- NQF QDM is a “Domain Analysis Model.”
- HL7 has implemented QDM in eMeasure and QRDA.



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Calculate: HQMF(eMeasure)

- HQMF
  - The first international standard for the formal representation of clinical quality measure as an electronic document (including metadata, data elements, and logic)
  - An HL7 Draft Standard for Trial Use (DSTU) since 2009 (Release 1)
  - Provides for quality measure consistency and unambiguous interpretation
  - Release 2 anticipated fall 2013
- eMeasure
  - A quality measure encoded in HQMF format

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What is QDM-based HQMF R2 Implementation Guide (IG)

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- A draft implementation guide that constrains HQMF R2 for use in the U.S.
- Provides a standard structure for constructing a quality measure based on the QDM
- Currently undergoing HL7 ballot review (comments due September 16, 2013)

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What is QRDA?

QRDA is a Clinical Document Architecture (CDA)-based standard for reporting patient quality data for one or more quality measures

- QRDA Category I (Single-patient Report)

  Individual patient-level report with containing data defined in the measure

- *QRDA Category II (Patient List Report) **

  Multi-patient report across a defined population that may or may not identify individual patient data within the summary

- QRDA Category III (Calculated Report)

  Aggregate quality report with a result for a given population and period of time

**Not a DSTU*

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Export: QDM-Based QRDA Category I

- Individual patient-level report containing data defined in an electronic clinical quality measure
- Clinical measureable parameters are assembled into quality measures, which are then expressible as eMeasures.
- eMeasures guide the collection of EHR and other data, which are then assembled into QRDA quality reports and submitted to quality organizations.
- While there is no prerequisite that a QRDA document must be generated based on an eMeasure, *the QDM-based QRDA Category I specification is written to tightly align with HQMF and the QDM.*

QRDA Category I was published July 2012 and is required in MU2 (§ 170.205(h)).

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Report: QRDA Category III

- An aggregate quality report that contains calculated summary data for one or more measures for a specified population of patients within a particular health system over a specific period of time.
- Refers to identifiers in an eMeasure or other query.
- Communicates data residing in health information systems that are stripped of all patient identifiers, protecting patients and healthcare providers from the risks of inadvertent leakage of private information.

Category III was published November 2012 and is required in MU2 (§ 170.205(k)).

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PUTTING IT ALL TOGETHER

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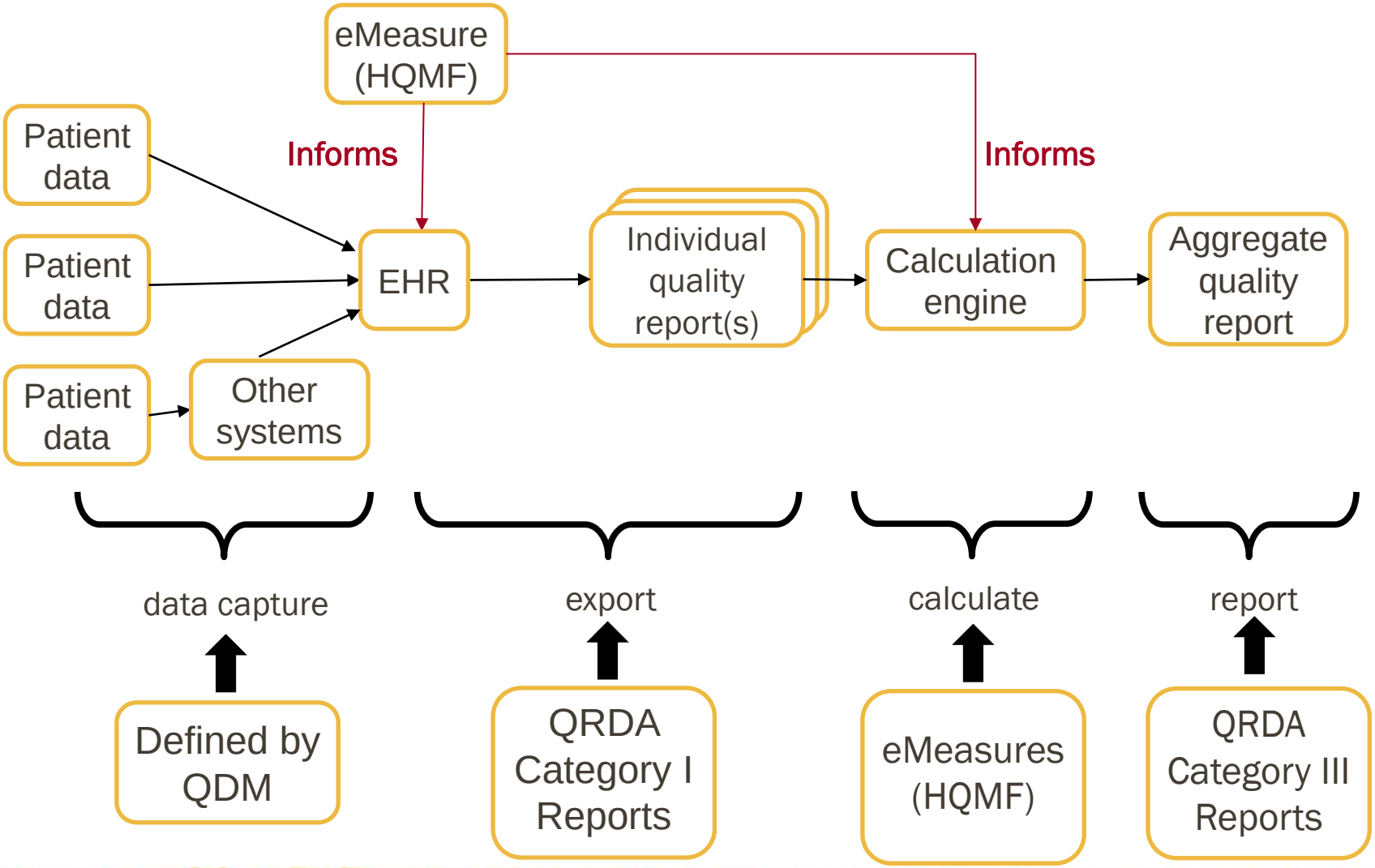
MU2 and Quality Reporting



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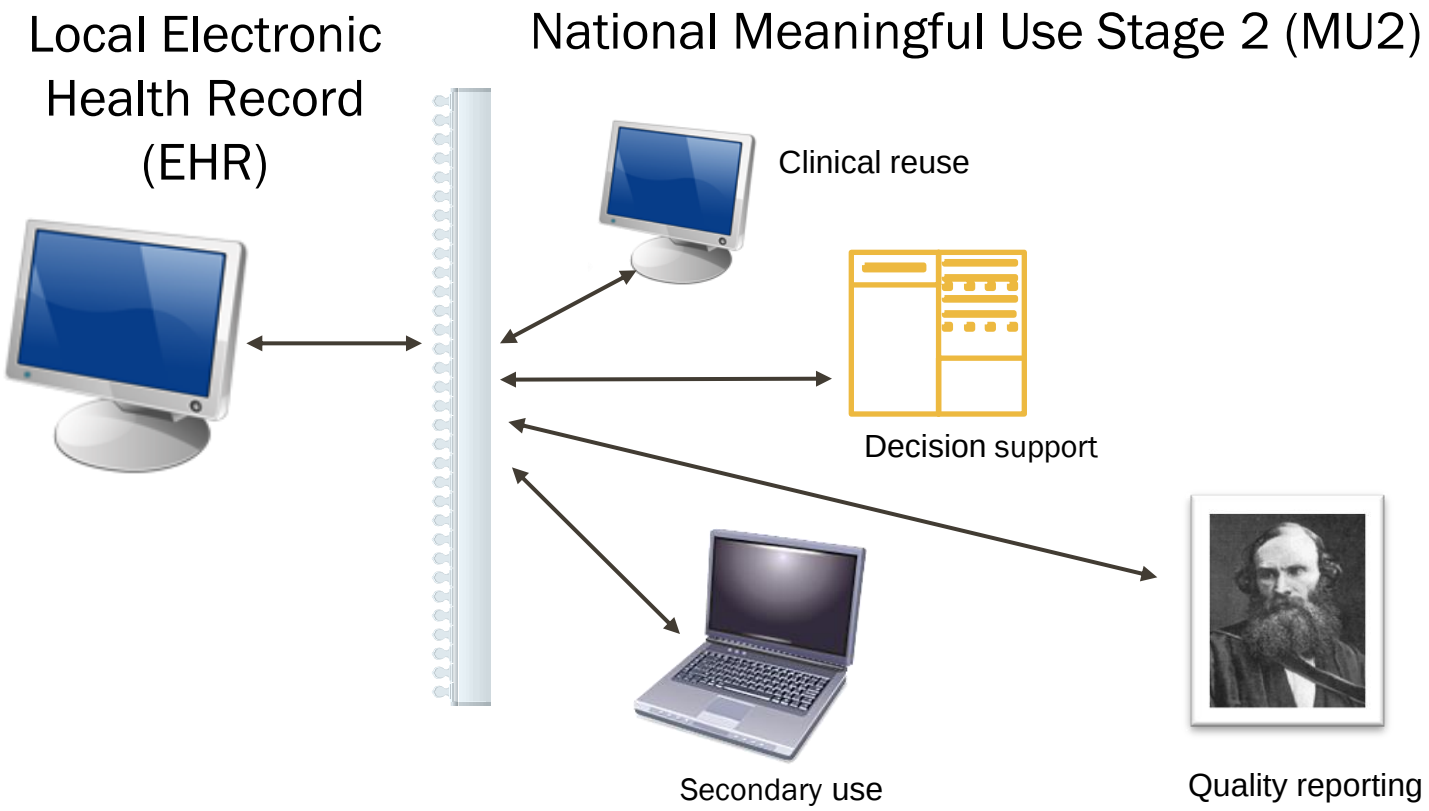
Big-picture View



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Beyond Meaningful Use

While considerable effort has gone into defining end-to-end quality reporting processes and technology for Meaningful Use, these efforts will fall short without

- A common approach to quality measurement and reporting
- Alignment of quality measurement with decision support and transitions of care
- Patient engagement in quality measurement and improvement

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Resources

- NQF Quality Data Model (QDM)
  - QDM, December 2012 http://www.qualityforum.org/QualityDataModel.aspx#t=2&s=&p=
- HL7 Quality Reporting Document Architecture (QRDA)
  - QRDA Category I (QRDA) DSTU, Release 2 (US Realm), July 2012
    http://www.hl7.org/implement/standards/product_brief.cfm?product_id=35
  - QRDA Category III, DSTU Release 1 (US Realm), November 2012
    http://www.hl7.org/implement/standards/product_brief.cfm?product_id=286
- HL7 Health Quality Measure Format (HQMF)
  - HQMF DSTU, Release 1 (Universal Realm), March 2010
    http://www.hl7.org/implement/standards/product_brief.cfm?product_id=97
  - HQMF DSTU, Release 1 (Universal Realm), DRAFT
    http://www.hl7.org/Special/committees/structure/docs.cfm
  - QDM-based HQMF R2 IG DSTU, Relase 1 (US Realm), Balloted Sept 2013
    http://www.hl7.org/participate/onlineballoting.cfm?ref=nav

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Learn More!

Attend Lantana's CDA Academy

- October 14-18, 2013
- Vanderbilt Center for Better Health
- Early Bird Ends Sept. 22

Contact Us / Connect with Us

- Leverage EHR data for quality reporting
- End-to-end reporting quality reporting strategy and implementation (HIEs, ACOs, QIOs)
- Quality measure assessment, development and e-Specification
- Meaningful Use certification readiness
- Email: info@lantanagroup.com
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THANK YOU!

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