

eCQM Design Group

April 4, 2017 10:00 am – 11:30 am



Agenda

| Welcome / Roll Call | Karen Bell, MD | 10:00 AM |
|--|----------------------|----------|
| Approve 3/28/17 Meeting Summary | | |
| Today's Meeting Objectives | Karen Bell, MD | 10:05 AM |
| Validate Updated Graphics | Design Group Members | 10:10 AM |
| Continued: Consider Draft Functional Requirements for a Statewide Quality Measurement System | Design Group Members | 10:20 AM |
| Discuss Business Requirements and Use Case Feedback | Design Group Members | 10:55 AM |
| Meeting Wrap-up and Next Steps | Karen Bell, MD | 11:25 AM |

Meeting Objectives?

- Validate Updated Graphics
- Continued from 3/28: Consider Draft Functional Requirements for a Statewide Quality Measurement System
- Discuss Business Requirements and Use Case Feedback
- Outline Upcoming Meetings

Design Group Workflow

Roadmap for the Development of a Clinical Quality Measurement System

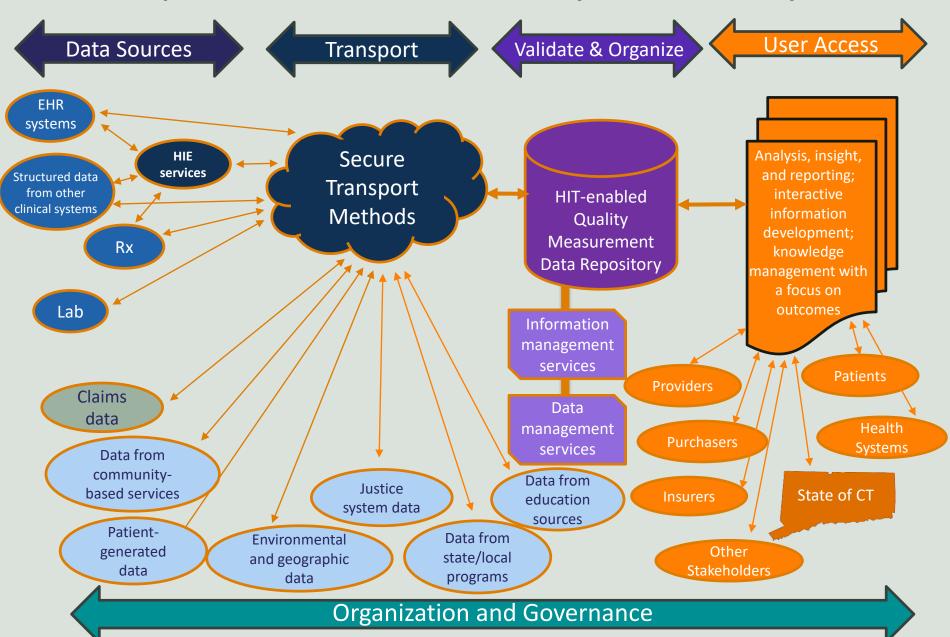
Validate Stakeholders and Value Propositions Identify Clinical Data Sources and Data Flows Validate
Components of a
Clinical Quality
Measurement
System and the
Scope of Design
Group Work

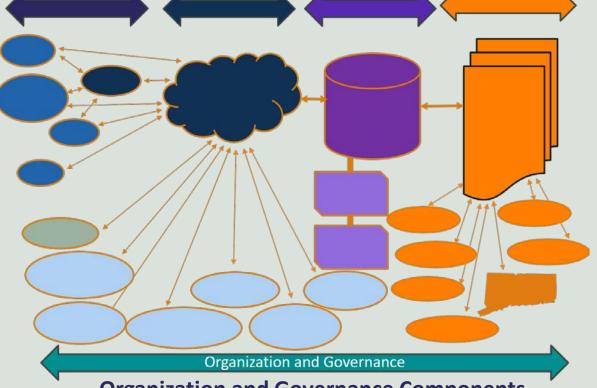
Confirm Business and Functional Requirements to Meet Needs of Priority Use Cases Discuss Future
Planning
Needs
(Governance,
Sustainability,
Other)

Proposed Timeline

| Milestones/Deliverables | Planned Dates |
|---|------------------|
| Validate value proposition summary Validate clinical electronic data sources necessary for clinical quality measures Review components of a statewide system and priority use case categories | 3/7/17 |
| Review preliminary themes from environmental scan/ stakeholder engagement Validate priority use case categories for statewide system Validate progress report to 3/16 Health IT Advisory Council Consider details around the components of a statewide system | 3/14/17 |
| Consider draft business and functional requirements for a statewide system | 3/21/17 |
| Review synthesis of input and validate recommendations for business and functional requirements for a statewide system | 3/28/17 |
| Continue review of input and validate recommendations for functional requirements; discuss business requirements and use cases for a statewide system | |
| Consider governance, sustainability, and additional planning needs for a statewide system for inclusion in the recommendations to the Health IT Advisory Council | 4/11/17 |
| Present Final Report and Recommendations to Health IT Advisory Council | 4/20/17 |

Validate Updated Components of Statewide System Graphic





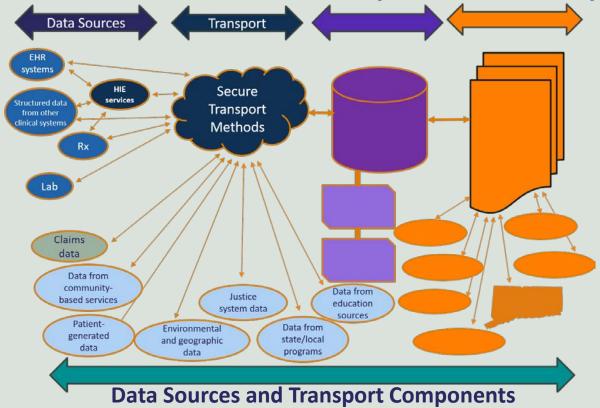
Organization and Governance Components

In scope for functional requirements:

 Locus of data aggregation (locally, intermediaries, and central)

Out of scope for functional requirements:

- Organizational governance (business operations, policy & legal, accountable oversight & rules of engagement)
- Operations
- Sustainable financial model
- Technical assistance framework

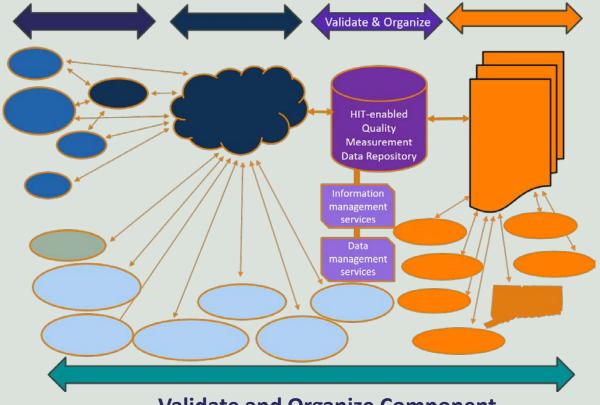


In scope for functional requirements:

- System performance and auditing capabilities
- Attribution (patients to providers)
- Secure data exchange (Direct, query/retrieve, HL7 v2.x)
- Content standards (claims, clinical, etc.)
- Security standards

Out of scope for functional requirements:

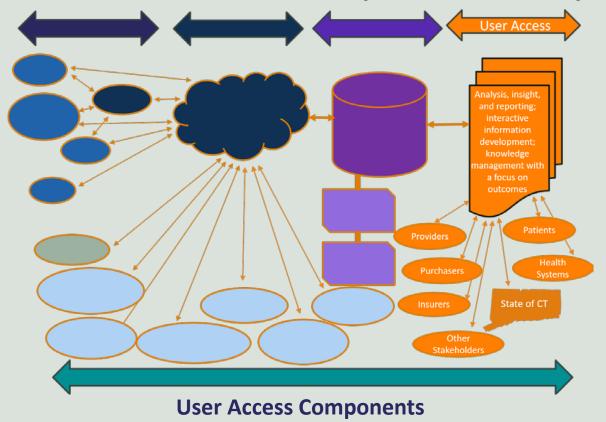
- Directories (Master Person Index, Master Provider Directory, and Authorized User Directory)
- HIPAA privacy requirements and consent framework
- Quality controls



Validate and Organize Component

In scope for functional requirements:

- Data normalization
- Data integration
- Data analysis
- Risk adjustment
- Data Provenance



In scope for functional requirements:

- Analytical tools
- Notification (bidirectional secure communication about operations and content of the system)
- Consumer tools (e.g., scorecard of providers, track own blood pressure)
- Provider tools
- Feedback methods of aggregate and individual quality reports

Consider Draft Functional Requirements for a Statewide Quality Measurement System

DRAFT Functional Requirements: Data Collection

| Data Collection | Updated |
|---|---|
| The Statewide Health IT-enabled Quality | CedarBridge comments: |
| Measurement System (System) should be able to | Will add the goal of the Cost Effectiveness in introduction of Recommendations. |
| query for, and retrieve (pull) data via nationally- | Have replaced "mature" with "nationally- |
| recognized standards including, but not limited to: | recognized". |
| HL7, version 2 and Fast Healthcare Interoperability | If the Design Group would like to be more specific in |
| Resources (FHIR). | this area, another option would be to reference the |
| | ONC Standards Advisory as the source for nationally-recognized standards. |
| The System should be able to receive data in flat | |
| files, including in Excel and comma separated | N/A |
| value (CSV) formats. | |
| The System should be able to collect complete, | |
| accurate, and timely discrete data elements, | |
| including but not limited to: lab results, | |
| prescription history, demographic data (including | |
| age, gender, zip code, race and ethnicity), vital | ▼ |
| signs, diagnoses, immunizations, radiology | |
| reports, images, and socio-economic data, when | |
| available. | |

DRAFT Functional Requirements: Data Collection

| Data Collection, cont. | Updated |
|---|----------|
| The System should be interoperable with electronic health record systems (EHRs) and EHR interoperability modules, health information exchange (HIE) platforms, data warehouses, commercial labs, Connecticut's Department Public Health laboratory and registries, Surescripts, Connecticut Prescription Monitoring and Reporting System (PMRS), radiology systems, and Application Programming Interfaces (APIs) coded to Computer Emergency Response Team (CERT) cybersecurity standards. | ✓ |
| The System should have the capacity to incorporate socioeconomic indicators and other data that suggest social determinants of health when these data are available, now and in the future, as structured elements or through Natural Language Processing (NLP). | |
| The System should have the capacity to collect race and ethnicity data when available in standardized format in EHRs and other contributing data systems. | N/A |
| The System must be scalable and flexible to allow for the ability to add clinical data for any future clinical measures agreed upon through a measures governance process, including measures that utilize custom specifications. | |
| The System must be scalable and flexible to allow for the ability to add claims data for any future cost and quality measures agreed upon by through a measures governance process. | |

DRAFT Functional Requirements: Data Collection, continued Data Transport

| Data Collection, cont. | Update |
|--|----------|
| The System must be scalable and flexible to allow for the ability to add other data (community, environmental, educational, patient-reported etc.) for any future health status measures agreed upon by through a measures governance process. | ✓ |
| Data Transport | Updated |
| The System should be able to send data (push) or receive data (via push and pull) via web services, FHIR (APIs, messaging, etc.), or other standards such as Direct secure messaging (XDR/SMTP). | ✓ |

DRAFT Functional Requirements: Data Validation

| Data Validation | Updated |
|--|----------|
| The System should include the implementation of Production and non-Production (test) instances for testing (interface build, software updates, etc.). | ✓ |
| The Production and non-Production System must have the electronic capability to validate the data fields collected [alphabetic, numeric, dates, Uniform Resource Locators (URLs), etc.]. | ✓ |
| The System must improve the timely and accurate adjudication of performance based incentive payments to providers participating in value-based payment models. | N/A |
| The System should allow stakeholders to audit or otherwise verify accuracy of measure calculations at the patient level and a process for correcting errors. | |

DRAFT Functional Requirements: Data Attribution

| Data Attribution | Updated |
|--|----------|
| The System must use sophisticated methods of attribution logic and securely reconcile different attribution methodologies to link patients to providers. | √ |
| The System must be able to impose a complex set of business rules on incoming data feeds to a master patient index that can: | |
| - Create a unique patient identifier to support accurate attribution | |
| Attribution of all care and services accessed by a patient to an assigned primary care provider or other provider regardless of who provided the care. | |
| - Attribution of all care and services accessed by a patient to organizations, based upon attributed provider | • |
| Ensuring appropriate linkage of patient data across various message types and submitters | |
| - Assign patients to a payer based upon a defined reporting period | |

DRAFT Functional Requirements: Data Aggregation and Normalization

| Data Aggregation and Normalization | Updated |
|---|----------|
| The System should support users in identification of cohorts of individuals using a variety of parameters, including demographic, clinical, and cost data, as well as race and ethnicity and other data related to social determinants of health where such data is available in standard formats or through NLP. | ✓ |
| The System should be able to identify cohorts of high-risk patients using predictive modeling algorithms and support stratification within the cohorts by clinician, practice, organization, community, and public health levels. | ✓ |
| The System must have a clearly defined process to normalize clinical data across submitting organizations in order to increase comparability of data from disparate sources. | ✓ |

DRAFT Functional Requirements: Data Measurement

| Data Measurement | Updated |
|---|---|
| The System must support end users by providing data at the individual patient level, practice/facility level, and organization level. | √ |
| The System must evaluate the effectiveness of integrated care on health outcomes across stratified populations. | Will add the goal of the Quadruple Aim in the introduction of Design Group recommendations to the Health IT Advisory Council. |

DRAFT Functional Requirements: Measure Calculation

| Measure Calculation | Changes Needed? |
|---|--------------------|
| The System should be able to securely build and perform measure calculations on data received from many data contributors. These sets of measures will be determined in partnership with the state and data submitters and contain only standardized measures that are pre-defined in detail. | |
| The System should have flexibility to perform quality measure calculations from a variety of standard quality measure sets including those endorsed by the National Quality Forum (NQF) and including, but not limited to, those established by: The Centers for Medicare and Medicaid Services (CMS) | |
| - Advancing Care Information - Medicare Shared Savings Program (MSSP) | |
| Merit-based Incentive Payment System (MIPS) Advanced Alternative Payment Models (APMs) (Continued on next slide) | |

DRAFT Functional Requirements: Measure Calculation

| M | easure Calculation | Changes Needed? |
|----|---|--------------------|
| (C | continued from last slide) | |
| - | The National Committee for Quality Assurance (NCQA) | |
| | - Healthcare Effectiveness Data and Information Set (HEDIS) | |
| | - Patient Centered Medical Home (PCMH) | |
| - | Medicaid EHR Incentive Payment Program / Meaningful Use (MU) | |
| - | The core measures outlined in the Report of the Connecticut Quality Council on a Multi-Payer Quality Measure Set for Improving Connecticut's Healthcare Quality | |

DRAFT Functional Requirements: Measure Calculation

| Measure Calculation, cont. | Changes Needed? |
|---|-----------------|
| In calculating measures, the System must be able to | |
| address specific inclusion criteria, specific exclusion | |
| criteria, variable measurement periods, including | |
| data that was collected outside of a measurement | |
| timeframe. | |
| The System must allow users to build custom | |
| measures. | |
| The System must have sorting/filtering functionality | |
| that includes, but is not limited to, filtering data by | |
| date range, organization, practice locations, | |
| individual provider, individual patients, patient | |
| morbidity and co-morbidity cohorts, race, ethnicity, | |
| gender, birth date ranges, etc. | |

DRAFT Functional Requirements: Measure Reporting

| Measure Reporting | Changes Needed? |
|---|-----------------|
| The System must be interoperable with all data systems collecting | |
| quality measures and quality measurement data from providers | |
| participating in the CMS Quality Payment Program (QPP), including for | |
| MIPS, MSSP, Advanced APMs, and other value-based payment | |
| models. | |
| The System should be approved by CMS as a Qualified Clinical Data | |
| Registry (QCDR). Functioning as a QCDR, the System will provide a | |
| streamlined method of reporting to CMS on the QPP measures and at | |
| least 15 of the other CMS-approved measures at the time of system | |
| launch (There are 30 CMS-approved measures for 2017). | |
| The System will demonstrate improvement in meeting the QCDR | |
| reporting requirements for CMS-approved measure sets in 2018 and | |
| 2019, and will be expected to meet 100% of the QCDR measure | |
| reporting requirements by 2020. | |

DRAFT Functional Requirements: Results Dissemination

| Results Dissemination | Changes Needed? |
|---|--------------------|
| The System should support users in preparing reports that aid in evaluating the effectiveness of service and clinical programs represented in the data. | |
| The System must support clinical quality improvement activities with individual and aggregate-level data, reports, and dashboards that are easily customizable and can display data at the patient level, provider level, practice level, Accountable Care Organization (ACO) or organization level, payer level and statewide level, in a variety of depths to meet the needs of system users. | |
| The System should include consumer-facing web access to quality and cost reports , the timing and details of which would be determined by a governance process. | |

DRAFT Functional Requirements: System Access / Security

| System Access/ Security | Changes Needed? |
|---|--------------------|
| The System must conform to robust privacy and security standards, including the requirement for two-factor authentication to validate user identity. | |
| The System must support role-based access for a variety | |
| of end user roles. | |
| The System must map all individual and organizational | |
| demographic data fields as closely as possible to a | |
| statewide provider directory system, if such a system is | |
| determined to be part of a modular technical | |
| architecture for interoperable health IT systems in | |
| Connecticut. | |

Discuss Business Requirements and Use Case Feedback

Validated: Central Value Proposition

A statewide system for electronic clinical quality measurement will enable providers and encourage payers to more efficiently participate in successful value-based payment models through:

- Person-centric measures that reflect the clinical care referable to a measure that has been received from all providers, included those who are outside specified networks of providers
- Trusted data and information from a third party with a state-of-the-art security infrastructure; quality assurance program; data governance system that focuses on data integrity, reliability, timeliness; and an overall governance system that is inclusive of stakeholder needs and priorities
- A goal of decreased administrative burden for providers by enabling a system that could allow data senders to submit standardized data and measures once to a single entity, and could eliminate the need for data and measure users to collate and recalculate data and measures from multiple sources

Over time, a robust healthcare delivery system of high-performing organizations will thrive in a value-based payment environment, and will help Connecticut achieve the quadruple aim of better health, better care, lower costs, and improved work life of healthcare providers.

Discussion: Business Requirements

1

Clinical quality improvement activities (providers)

2

Care coordination and management of specific patient cohorts (multiple stakeholders)

3

Integration of care between physical health and behavioral health (multiple stakeholders, including consumers)

. 4 Development of value-based contracts with a high quality/lower cost network of providers (payers)

5

Accurate calculation of performance measures related to incentive reimbursement (providers)

Discussion: Business Requirements

Transparency of healthcare quality measures (multiple stakeholders including consumers)

Transparency of healthcare costs (multiple stakeholders including consumers)

Development of targeted, effective, and efficient public health programs (all residents of Connecticut)

Administrative efficiency (payers and providers)

Research and evaluation (multiple stakeholders)

Patient/Consumer engagement (TBD)

8

9

10

Discussion: Use Cases to Support Clinical Quality Improvement Activities

Clinical Data Only

 Identify patients with poorly managed conditions who receive care outside of the responsible provider's network

Clinical and Claims Data

Multiple Data Sources

 Identify contributing factors (social, environmental, and other factors) impacting populations with priority conditions

Use Cases to Support Care Coordination/Management of Specific Patient Cohorts

Clinical Data Only

 Identify patients with poorly managed conditions who receive care outside of the responsible provider's network

Clinical and Claims Data

Multiple Data Sources

 Identify contributing factors (social, environmental, and other factors) impacting populations with priority conditions

Use Cases to Support Integration of Care Between Physical Health and Behavioral Health

Clinical Data Only

Clinical and Claims Data

 Analyze patterns of care in patients utilizing behavioral health and physical health services

Multiple Data Sources

Use Cases to Support Development of Value-Based Contracts with a High Quality/Lower Cost Network of Providers

Clinical Data Only

- Provide aggregate outcome measures on all of a given provider's patients
- Provide composite outcomes on clinical measures on all payers' members

Clinical and Claims Data

Integrate clinical and claims measures as needed for reporting purposes

Multiple Data Sources

Use Cases to Support Accurate Calculation of Performance Measures Related to Incentive Reimbursement

Clinical Data Only

Identify true data gaps related to outcome performance measures

Clinical and Claims Data

Identify true data gaps related to hybrid performance measures

Multiple Data Sources

Use Cases to Support Transparency of Healthcare Quality Measures

Clinical Data Only

 Report accurate outcome quality measures based on clinical and claims data to a public-facing website.

Clinical and Claims Data

 Report accurate process and outcome quality measures based on clinical and claims data to a public-facing website

Multiple Data Sources

Discussion: Use Cases to Support Transparency of Healthcare Costs

Clinical Data Only

•

Clinical and Claims Data

•

Multiple Data Sources

Use Cases to Support Development of Targeted, Effective, and Efficient Public Health Programs

Clinical Data Only

Identify relationships between demographic information and specific clinical outcomes

Clinical and Claims Data

•

Multiple Data Sources

Use Cases to Support Administrative Efficiency

Clinical Data Only

Clinical and Claims Data

•

Multiple Data Sources

Discussion: Use Cases to Support Research and Evaluation

Clinical Data Only

 Perform program evaluation at multiple levels with respect to efforts to improve clinical outcomes

Clinical and Claims Data

 Identify opportunities to conduct health services research in partnership with academic, commercial, and governmental entities

Multiple Data Sources

Discussion: Use Cases to Support Patient Engagement

Clinical Data Only

Clinical and Claims Data

Multiple Data Sources

Next Steps

■ Tuesday April 11, 2017

- □ Determine feedback methods for reviewing presentation to Health IT Advisory Council and assign presenter(s)
- Discuss and finalize recommendations to the Health IT Advisory
 Council for addressing components of a statewide quality
 measurement system that were considered out of scope for the
 Design Group

■ Thursday April 20, 2017

☐ Health IT Advisory Council Presentation



Karen Bell MD

Karen@cedarbridgegroup.com

Carol Robinson

Carol@cedarbridgegroup.com

www.cedarbridgegroup.com

