A Shift Towards Digital Measurement
Creating New Generation Quality Measures for HEDIS®

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Connecting Michigan for Health X
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HEDIS Measures

Healthcare Effectiveness Data and Information Set (HEDIS®)
A comprehensive set of performance measures for health plans
Used by over 90% of America’s health plans
Provide an “apples-to-apples” comparison of health plans
Health plans can use results for internal quality improvement
Address important public health issues
e.g., cancer screenings, medication mngmnt, controlling high blood pressure
New for HEDIS 2019
Digital Measure Specifications
Overarching Goal

Over the next 3-5 years, measures will increasingly require the use of multiple data sources.

Digitalization makes it possible to efficiently use these data, and makes patient-centered measurement feasible.
Digitizing HEDIS Measures
Digital Measure Specifications Available in HEDIS 2019 Measure Set

Digital measure specifications available July, 2018:

- Depression Screening and Follow-Up for Adolescents and Adults (DSF)
- Utilization of the PHQ-9 to Monitor Depression Symptoms for Adolescents and Adults (DMS)
- Depression Remission or Response for Adolescents and Adults (DRR)
- Unhealthy Alcohol Use Screening and Follow-Up (ASF)
- Adult Immunization Status (AIS)
- Prenatal Immunization Status (PRS)

1. Narrative Specification
2. Human Readable Header/Logic
3. CQL/QDM Library
4. Expression Logical Model (ELM) Files: XML, JSON, HQMF

http://store.ncqa.org/
Digitizing HEDIS Measures
Using Common Health IT Standards

Quality Data Model (QDM)

Standard Terminologies

Clinical Quality Language (CQL)

Fast Healthcare Interoperability Resources (FHIR)

and peer-problem solving
Depression Screening and Follow-Up for Adolescents and Adults

Identifying Individuals with a Positive Depression Screen Result

Positive Depression Screen Value Set
HCPCS G8431: Screening for depression is documented as being positive

<table>
<thead>
<tr>
<th>Instruments for Adolescents (12–17 years)</th>
<th>Positive Finding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patient Health Questionnaire (PHQ-9)®</td>
<td>Total Score ≥5</td>
</tr>
<tr>
<td>Patient Health Questionnaire Modified for Teens (PHQ-9M)®</td>
<td>Total Score ≥5</td>
</tr>
</tbody>
</table>

define Positive Adolescent Depression Screen
( ( ["Assessment, Performed": "Patient Health Questionnaire 9 total score"] PHQ9
  where PHQ9.result >= 5 )
union ( ["Assessment, Performed": "Patient Health Questionnaire 9 Modified for Teens total score"] PHQ9M
  where PHQ9M.result >= 5 ) )
### Digitizing HEDIS Measures

**ECDS and Digital Measures**

<table>
<thead>
<tr>
<th><strong>ECDS</strong></th>
<th><strong>DIGITAL MEASURES</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Can use bidirectional clinical data</td>
<td>Using international standards</td>
</tr>
<tr>
<td>Does not use supplemental data classifications</td>
<td>QDM/CQL</td>
</tr>
<tr>
<td>Can be calculated with or without the use of a digital measure specification</td>
<td>Provides standard, computable model for calculating measure rates</td>
</tr>
<tr>
<td></td>
<td>Fixed format</td>
</tr>
</tbody>
</table>
HEDIS ECDS Measures

Measures using Electronic Clinical Data Systems

Goals:

• Encourage broader use and exchange of standardized electronic data
• Increased data accuracy
• Timeliness of results
• Recue burden of calculating and reporting results

Core Principles:

• Support appropriate access to electronic health data across the entire care continuum,
• Emphasize a member-centered, team-based approach to quality health care services, and
• Support a learning health system that encourages innovation.
# HEDIS ECDS Measures

*Measures using Electronic Clinical Data Systems*

<table>
<thead>
<tr>
<th>HEDIS ECDS Measure</th>
<th>Types of ECDS Data</th>
<th>Structured</th>
<th>Semistructured</th>
<th>Member-reported</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ECDS Categories</strong></td>
<td>EHR</td>
<td>HIE/Registry</td>
<td>Case Management System</td>
<td>Administrative Claims</td>
</tr>
<tr>
<td><strong>Digital Specification Value Sets</strong></td>
<td>CPT</td>
<td>HCPCS</td>
<td>ICD-10</td>
<td>SNOMED</td>
</tr>
<tr>
<td>Rate</td>
<td>Depression screen performed</td>
<td>Follow-up care within 30 days</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>-----------------------------</td>
<td>-----------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>12 year or older</td>
<td>Positive depression screen result</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Health Plan Data Repository/Intermediary

External Reference Systems

- HIE

DoH

Payer Systems

- Provider Index

Facility Index

Enrollment DB

Claims DB

Point of Service Systems

- Provider EHR

Case Mgmt System

Pharmacy

SNOMED

LOINC

CPT

Age

Enrollment DB

Health Plan Data Repository/Intermediary

External Reference Systems

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Pharmacy

SNOMED

LOINC

CPT

Age
Considerations for Future Work

Digitizing HEDIS Measures
Digitizing HEDIS Measures

Select Measures: Determine the type of measure and if it can be expanded

**Fixed**
Developed for claims data only

**Expandable**
Developed for claims, but can accommodate clinical data

**Multiple Data Sources**
Developed for claims and clinical data
Digitizing HEDIS Measures

Selecting Measures

Choose measures that…

Demonstrate feasibility

Convert measures that show health plans electronic data can be accessed and used for quality reporting

Ease reporting effort

Convert measures where burdensome manual processes can be removed

Promote alignment

Convert measures that are used across programs and levels of accountability
Digitizing HEDIS Measures

Build/Test Digital Packages

Construct CQL/QDM

Expression Logical Model (ELM)

Native Java Script .NET SQL

Run measure against (fake) patient database

Report results

Solicit internal/external stakeholder input at critical points in the process
Digitizing HEDIS Measures

**Promote and Distribute**

**CURRENT PROCESS**

Order HEDIS 2018 Volume 2: Available Now

- Terminology
- Clinician
- Programmers
- QA Team
- Engineer

![Flowchart showing the current process](chart)

Data

Execution Engine/Product

Measure Results

**Download PDF**

**Translate into codes/code sets/test**

**Implementation**

**Dissemination**

**FUTURE PROCESS**

- QDM/CQL Specifications
- FHIR

![Flowchart showing the future process](chart)

Data

Execution Engine/Product

Measure Results

**“Subscribe to Measures”**

- Download all specs

**Implementation**

**Dissemination**
Digitizing HEDIS Measures

Expressing Attribution in Digital Measure Specifications

Align measures across health care system

Practice  Network  Health Plan

USE industry standard specifications as building blocks

DEFINE core clinical concepts using same codes and value sets

System-specific attribution MODEL
(e.g., enrollment criteria at health plan level)
Use Case – NCQA HEDIS & Customer-Driven Reporting

Digital Measure Specifications Support Both

**NCQA HEDIS® Reporting**

Data Generated from Multiple Sources Aggregated by Intermediaries

**NCQA Measure Specs**

Modular format provides alternative specs for use without breaching NCQA license

**NCQA Attribution Model**

Alternative attribution & accountability modules provided

**Customer-Driven Reporting**

(Health plans, health systems, states agencies, HIEs, Data Intermediaries, Pop Health, Analytics Companies)

**NCQA HEDIS Rates Calculated**

Customer-Driven Reporting
Certified eCQM data can be integrated into a health plan’s data repository and used as data for performance measurement reporting.
• Interactive event focused on demonstrating innovative approaches to the rapidly changing quality measurement environment

• Improve coordination across disciplines and communication of healthcare information systems using quality measurement as the use case

www.ncqa/org/summit
Thank you