Data Exchange for Quality Measures

Owning work group name

Clinical Quality Information

Committee Approval Date:

*TODO* Please enter the date that the committee approved this IG proposal

Contributing or Reviewing Work Groups

- Clinical Decision Support

FHIR Development Project Insight ID

1429

Scope of coverage

This IG is specific to the US Human exchange of data for quality measures across all healthcare disciplines. Its purpose is inpatient; outpatient; and primary, secondary and tertiary care settings. The content is developed by stakeholders including clinical care provider, EHR vendor, and payor representatives.

IG Purpose

As the US Healthcare system transitions from a fee-for-service payment model to a value-based-care (VBC) model, the authoring, collection and reporting of quality measures is essential to this new model. Currently, disparate methods, both propriety and non-proprietary, are used to collect, aggregate and report quality measures data. This implementation guide leverages the interoperability of FHIR to create a framework for the timely and standardized method for exchanging this data. By shortening the feedback loop of quality measures data, the framework can support activities such as closing gaps in care. Main IG will address the general framework for data exchange of quality measures. The framework will be exemplified in the specific use case of â€œ30-Day Medication Reconciliation Post-Discharge,â€ for which the guide will implementation details including profiles and operations.

Content location
Proposed IG realm and code
us/davinci-deqm

Maintenance Plan
This specification will be maintained by the CQI work group once the Da Vinci project has completed initial development.

Short Description
Provides a mechanism for healthcare providers and data aggregators to exchange quality measure information using subscription, query, and push methods in support of quality reporting and improvement, including gaps in care.

Long Description
The Data Exchange for Quality Measures Implementation Guide (IG) will provide guidance to implementers who wish to request and report clinical and administrative data using FHIR resources and operations in support of quality measure reporting. The main IG will detail the base and profiled FHIR resources and operations which provides a framework to enable the Exchange of Quality Measure Data between Data “Aggregators” (organizations that want to evaluate quality measures) and Providers (organizations that deliver care to patients). This guide describes three methods of exchanging data quality and the specific use case of 30-Day Medication Reconciliation Post-Discharge will demonstrate how one of these method can be implemented to exchange the MRP measure data. This IG will span both FHIR STU3 and R4 with additional guidance for backward compatibility with STU3. A future release of this guide will include all the R4 artifacts when then US Core and QI Core profiles and the DEQM Profiles derived from them have been defined.

Involved parties
This implementation guide has been developed by U.S. EHR and Payor organizations as part of the Da Vinci project.

Expected implementations
In addition to a pilot reference implementation and testing at the Sept. 2018 and Jan. 2019 WGMs, several EHR and Payor organizations are expected to implement this implementation guide prior to the end of 2019.

Content sources
Requirements are drawn from payor and provider organizations as part of the Da Vinci initiative. Additional guidance come from quality measure authors.

Example Scenarios
This IG outlines three methods for the data exchange: subscription, query/request, and push. In each case below, the [id] is the profile for a specific measure.

- In the subscription method, an aggregator system subscribes to a specific measure on a provider system. When measure data is generated on the provider system, the provider system will notify the aggregator via the subscription callback, and the aggregator will then query the provider system using the query/request method.
- In the query/request method, an aggregator system will invoke the Measure/[id]/$collect-data operation and passes parameters for the query. The provider system returns an operation response with the applicable FHIR resources.
- In the push method, after measure data is generated, the provider system performs a POST Measure/[id]/$submit-data operation to send data to an aggregator system.

IG Relationships
This implementation guide will be “aligned” with US Core and will eventually be derived from US Core once that IG has been updated to align with FHIR R4.
Timelines
The intention is to perform initial balloting of the IG in the Sept. 20.

When IG Proposal Is Complete
When you have completed your proposal, please send an email to FMGcontact@HL7.org

FMG Notes
Approved 2018-07-11