Exploring FHIR to Reduce Burden for Quality Measurement

Background for EHR WG

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Clinical Quality Framework: Standards Evolution

https://confluence.hl7.org/display/CQIWC/Clinical+Quality+Framework

- Data Model
- Structure
- Logic
- Service
# FHIR Quality Measure Ecosystem

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<th>Through 2018 Reporting Period</th>
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FHIR Quality Measure Ecosystem

Measure Specification

Producers
- Providers
- Patients
- Care Givers
- Clinical Systems
- Patient Engagement
- Healthcare Systems
- Labs and Imaging

Measure Reporting

Consumers
- Aggregators
- Payers
- Health Information Exchanges
- Public Health Agencies
- Quality Data Submitters
- Population Health

Interactions

FHIR

Specifiers
- Quality Agencies
- Government Agencies
- Industry Consortiums
- Clinical Professional Societies

Quality Measure IG

QI Core

DEQM (Reporting) IG

1 Quality Improvement Core (QI-Core) Implementation Guide

This STU 4 update to the QI-Core profiles updates to FHIR R4 (technical correction 1 (v4.0.1)) and US-Core STU 3 (v3.1.0). See the version history for a complete list of changes to this version.

1.1 Summary

The QI-Core Implementation Guide defines a set of FHIR profiles with extensions and bindings needed to create interoperable, quality-focused applications. The profiles in this implementation guide derive from and extend the US Core profiles to provide a common foundation for building, sharing, and evaluating knowledge artifacts across quality improvement efforts in the US Realm.

As an HL7 FHIR Implementation Guide, changes to this specification are managed by the sponsoring workgroup, Clinical Quality Information, and incorporated as part of the standard balloting process. The current roadmap follows closely behind the base FHIR roadmap, and the US Core Implementation Guide.

1.2 Contents

This guide is divided into pages which are listed at the top each page in the menu bar:

- **Home**: The home page provides summary and background information
- **Profiles**: The profiles page provides a complete listing of all the profiles defined in or used by QI-Core
- **Patterns**: The patterns page describes patterns of usage for QI-Core applications
- **Extensions**: The extensions page lists all the extensions defined as part of QI-Core
- **Terminology**: The terminology page lists all terminology defined as part of QI-Core
- **Examples**: The examples page provides an index of all the examples defined as part of QI-Core
- **Downloads**: Downloads for definitions, examples, as well as the entire IG
- **QDM-to-QI-Core Mapping**: This page provides a detailed description of mapping from QDM to QI-Core
- **QUICK**: This page provides an author-focused view of the QI-Core profiles

http://hl7.org/fhir/us/qicore/
## FHIR Clinical Reasoning
### Quality Measure IG

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FHIR Clinical Reasoning
Data Exchange for Quality Measures IG

Interim Reporting, Gaps in Care:
May 2020 Connectathon,
September ballot

Quality Measure Data Interchange

Quality Measurement focused
- Quality Improvement focused
- US Realm specific profiles
- Universally applicable resources and guidance

Consensus-based Promotion
- FHIR
- US Core
- QI Core
- DEQM/HEDIS/etc

Constraint-based Definition