

Quality Data Model (QDM) v5.4 Standard

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Objective

- » To review the high-level changes to the Quality Data Model (QDM) standard following the publication of the QDM version 5.4 by the Centers for Medicare & Medicaid Services (CMS)

QDM Background

- » QDM is an information model that defines relationships between patients and clinical concepts in a standardized format to enable electronic quality performance measurement.
- » With the implementation of Clinical Quality Language (CQL) in Fall 2017, the QDM includes only the data model. This and future versions require the use of CQL as a separate method for expressing logic.
- » Previously published versions of the QDM (through version 4.3) included the information model and logic.

QDM Background, continued

- » Support for QDM v5.4 features and modifications will be implemented in the production version of the Measure Authoring Tool (MAT) to be released in Fall 2018 (MAT v5.6).

QDM v5.4 High Level Updates

- » The standard has been updated to align with the emerging standard, Health Level Seven International (HL7) Fast Healthcare Interoperability Resources (FHIR) and add increased explicit capabilities.

QDM v5.4 High Level Updates, continued

- » High level updates in QDM v5.4 from the previous version QDM v5.3, Annotated:
 - Added:
 - QDM datatype Assessment, Order
 - “setting” attribute to QDM datatype Medication, Order
 - Guidance on the use of the QDM substance category with existing use cases (blood product administration and exclusive breast milk feeding for newborn infants in the hospital)
 - Guidance to the use of the QDM datatype Device, Applied
 - Guidance for the use of the QDM datatype Symptom

QDM v5.4 High Level Updates, continued

- » High level updates in QDM v5.4 from the previous version QDM v5.3, Annotated:
 - Retained the distinction between QDM categories Intervention and Procedure even though interoperability standards do not provide any differentiation between the two concepts
 - Merged three Communication QDM datatypes – Communication, Provider to Patient; Communication, Patient to Provider; Communication, Provider to Provider into a single QDM datatype, Communication, Performed

QDM v5.4 High Level Updates, continued

- » High level updates in QDM v5.4 from the previous version QDM v5.3, Annotated:
 - Removed:
 - “Anatomical approach site” attribute from several QDM datatypes
 - “Method” attribute from all datatypes with a recommended or order context
 - “Supply” attribute from QDM datatypes for which clinical data does not provide supply information

Resources

- » Current and past versions of the QDM are located on the eCQI Resource Center QDM page
 - <https://ecqi.healthit.gov/qdm>
- » Past versions of production QDM Specifications can be found on the eCQI Resource Center QDM-Previous Versions tab
 - https://ecqi.healthit.gov/qdm-quality-data-model#quicktabs-tabs_qdm2
- » QDM User Group meeting information is on the eCQI Resource Center QDM-Connect tab
 - https://ecqi.healthit.gov/qdm-quality-data-model#quicktabs-tabs_qdm4
- » For questions or comments on the QDM, please contact the ESAC QDM team
 - qdm@esacinc.com
- » To submit an issues ticket, please visit the ONC JIRA site
 - <https://oncprojecttracking.healthit.gov/support/projects/QDM/>