FHIR: Fast Healthcare Interoperability Resources

A Dynamic Health IT, Inc. White Paper

Problem

Inconsistent data quality and lack of unifying standards have led to major roadblocks to interoperability.

Goals

Incorporate the FHIR standard into an existing, cost-effective, turnkey solution to provide a simplified message format, using secure transmission protocols and common resources, that can be used to improve quality of patient care.

Results to date

FHIR is an evolving set of clinical interoperability resources currently approaching a **Draft Standards for Trial Use (DTSU) 2.0 release**. FHIR is based on common web standards, including XML and JSON, with a RESTful protocol in which each FHIR resource has knowable URL. The developers and stakeholders behind the standard have been widening its reach to a variety of use cases in a collaborative process that includes periodic "Connectathons."

Our Solution

Dynamic Health IT, Inc (DHIT) has embraced the FHIR standard and its potential to advance healthcare interoperability by providing a modern platform for processing and manipulation of healthcare data. Through development efforts and participation in the FHIR community, DHIT seeks to make FHIR available in meeting all relevant ONC certification measures.

Clinicial quality measures (CQMs)

DHIT's development team has successfully calculated and generated quality measure reports for CQMs using FHIR as a data source. HL7 Health Quality Measures Format (HQMF) templates are matched with FHIR resources and a FHIR server is then used to populate patient demographics data, encounters and procedures. The team will expand on this success, working diligently to identify all CQMs that can be developed with FHIR.

Future directions

DHIT is exploring all possibilities for bringing "FHIR power" into certified software, including the intake of clinical documents and use of DIRECT protocol. FHIR's extensibility should allow it to accommodate a wide variety clinical situations, allowing the development team to cast a wide net. Ongoing development and consulting work will include monitoring the evolution of the standard and the proposed use of a FHIR Registry.

Founded in 1999, Dynamic Health IT (DHIT) is dedicated to developing technology to benefit healthcare providers and vendors, specializing in meaningful use certification solutions and system interoperability via standards such as HL7, Clinical Document Architecture (CDA), CCDA, CCD and others. Headquartered in New Orleans, DHIT has consultants throughout the United States.

DHIT's current product line includes ConnectEHR® + Patient Portal (2014-edition certified flexible bolt-on software that enables EHR vendors to achieve Stage 2 Certification) and CQMsolution® (software enabling EHR vendors to meet ONC certification and providers to achieve Stage 2 Meaningful Use by supporting all current CMS eCQMs). In addition to development, team members are also skilled in interface engines such as HL7Connect, Epic Bridges, Cloverleaf®, Rhapsody™ and OPENLink™.

For more information on our FHIR solutions, please contact us:

Phone: 504-309-9103   **Email: info@dynamichealthit.com**