CodeX[™] HL7 FHIR[®] Accelerator:

Community-Driven Adoption of Smarter Data in Advancing Interoperability for Cancer, Genomics, and Cardiovascular Health April 2023





https://www.hl7.org/codex/ https://confluence.hl7.org/display/COD/CodeX+Home https://www.linkedin.com/company/codex-common-oncology-data-elements-extensions/



© CodeX[™] Alignment With US Federal Rules Create Foundation for FHIR[®] Health Data Exchange



United States Core Interoperability Data (USCDI)

Standardized set of health data classes and constituent data elements Established for nationwide, interoperable health information exchange



Interoperability Rule – FHIR® Conformance

Industry *must* share health data with patients Shared using the HL7 FHIR R4 standard FHIR API standards are *required* in certified EHRs



Interoperability Rule – FHIR® Transmissions

Create patient access APIs (claims, encounter, & select clinical data)

Create provider directory APIs

Support payer to payer data exchange

Support transition-of-care related notifications

USCDIv3:

Date of Death,
Functional Status
Disability Status
USCDI Level 1 & Comment:
Genomics Elements, etc.

*Above elements: CodeX supported

ONC API: Dec 2022

CMS Patient Access
API: Jan 2021
CMS Payer-to-Payer
Exchange: Jan 2022



<u>Patients</u> can access and manage health data to optimize health

<u>Providers</u> and <u>payers</u> can improve care coordination and care transitions

CodeX (mCODE ++):

- Align with and build on FHIRbased rule implementation
- Provide rich data to improve care, research, and outcomes





What is a FHIR® Accelerator?

"...designed to assist communities .. across the global health care spectrum in the creation and adoption of high quality FHIR Implementation Guides .. to move toward the realization of global health data interoperability"



https://www.hl7.org/about/fhir-accelerator/

HL7 FHIR® Accelerators











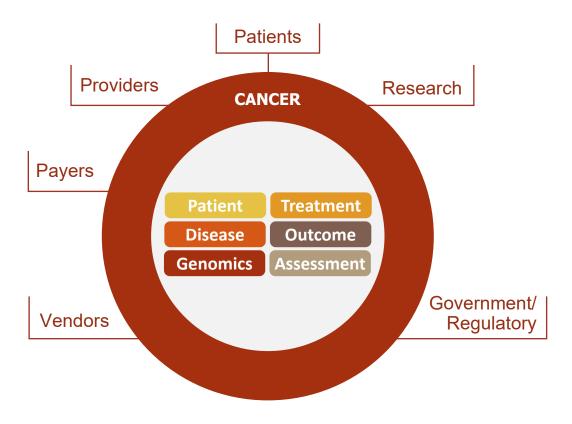






mCODETM

Minimal Common Oncology Data Elements





A growing, active community of oncology stakeholders prioritizing, building & executing use case pilots to demonstrate real world feasibility and value

Collect patient data once.



Reuse for multiple use cases.



CodeX™ Community of Practice

https://confluence.hl7.org/display/COD/mCODE+Community+of+Practice

A growing group of health systems and other key stakeholders, learning together in a monthly public forum focused on real-world applications of CodeX FHIR® standards across cancer, radiation oncology, cardiovascular health, and genomics.



Latest developments on mCODE, CodeX, and cancer data exchange



Ask questions and learn from the experience of other



community participants











EHRs and other tech companies



Medical Societies and Consortia



16 Government **Agencies**



16 Research Organizations



Nonprofits/



Organizations



CodeX Members

(April 2023)



PREMIER

















BENEFACTOR





PRINCIPAL



















GOVERNMENT AGENCY











SPONSORED MEMBER



















DEVELOPER/IMPLEMENTER



























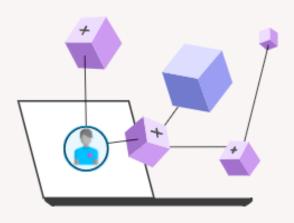






Health Data. Collect Once, Use Everywhere.

CodeX is a global community of healthcare stakeholders currently working on data standards in three domains. We build and implement in the field and on-site.



Cancer

The first domain that the CodeX community tackled is cancer. Using the minimal Common Oncology Data Elements (mCODE), an open data standard enabling high-quality data capture for cancer that can be widely adopted.

70+ oncology elements in use at Dana-Farber Cancer Institute, MD Anderson Center,
Massachusetts General Hospital and 44 other institutions. Versions of the mCODE and associated
modeling tools are currently operational in over 250 organizations.

See Our Work →

Genomics NEW DOMAIN

This team is advancing the standardization, interoperability, and exchange of genomic data to improve care processes, clinical workflows, and patient outcomes from all areas of clinical care.

Cardiovascular Health

NEW DOMAIN

This team is engaging patients, as well as clinical and research stakeholders, to create standard representations of heart health to enable standards-based interoperability in cardiovascular health and healthcare.



Use Cases

The CodeX framework spurs community-driven use case development and demonstration, piloted in-the-field by stakeholders expected to benefit in the future.

7 In Execution

mCODE++ Extraction

EHR Endpoints for Cancer Clinical Trials (ICAREdata)

Integrated Trial Matching for Cancer Patients and Providers

Cancer Registry Reporting

Radiation Treatment Therapy Data for Cancer

Prior Authorization in Oncology

Genomics Data Exchange

2 In Planning

CardX Hypertension Management

Genomics Operations



Risk Evaluation and Mitigation Strategies

Quality Measures for Cancer





Building data unity for patients, clinicians, and research.

Common data definitions drive high-quality computable data that are trusted, consistent, and usable.









Caring for Every Patient

Break down silos and manual processes for efficient care and research across all settings, building trust with your care team and accurate data.

Learning with Every Patient

Create easily accessible, accurate, and longitudinal patient stories that caregivers can use to personalize treatment and care.

Transforming Care for All

Revolutionize healthcare and research by leveraging standardized data of individual patients to contribute to the health of all future patients.



Build and Innovate on Our Work

We enable high-quality computable data using HL7 and FHIR® standards to create a common language for clinical specialty domains in cancer, genomics, and cardiovascular health.

Get Engaged

CodeX hosts a monthly Community of Practice event to keep our community informed and engaged, and to make sure the public's opinions are heard. We also hold Public Calls to give updates on ongoing CodeX use cases.

Attend Upcoming Events: https://confluence.hl7.org/display/COD/CodeX+Calendar

Expand Our Reach

There are currently over 250+ stakeholders involved in CodeX. We are looking to expand our membership and to partner with new health systems in our pilots. Spread the word!

Share our site: https://codex.hl7.org/

Support Our Mission

Funding from foundations, philanthropies, and government organizations will allow us to further scale and drive maximum adoption across systems. Please reach out about interesting opportunities that may apply to CodeX.

Email suchen@mitre.org or CodeX@hl7.org

