ONC Update to LOINC© Laboratory and Clinical Committees

Thursday, March 26, 2020; 10:00 a.m. – 1:00 p.m. ET

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ONC Mission

Improve the health and well-being of individuals and communities through the use of technology and health information that is accessible when and where it matters most.
Background and Overview

Enhancing the Logical Observation Identifiers Names and Codes (LOINC®) Standard to Support U.S. Interoperability
Cooperative Agreement Background

Enhancing the LOINC® Standard to Support U.S. Interoperability Cooperative Agreement

- Awarded in 2018
- 5-year period-of-performance
- Initial award amount: $600,000
- Supplemental awards provided in FY19 and FY20
Project Objectives

Objective 1

• Upgrade technical infrastructure;
• Expedite improvements in accessing content;
• Bridge gaps between LOINC® and HL7® FHIR®
Project Objectives

Objective 2

• Advance the production deployment of FHIR-based terminology services for LOINC®;

• Support LOINC® content developers as they develop new content that support USCDI

• Update tools maintained by Regenstrief for LOINC® implementers including Regenstrief LOINC Mapping Assistant (RELMA®)
Accomplishments to Date

2018
• Upgraded the server that hosts FHIR API services
• Upgraded and deployed the latest version of LHC-Forms and LOINC panel content
• Converted the legacy, Access-based process that generates the Multiaxial Hierarchy to a new set of SQL Server stored procedures and tested it in a development environment
• Deployed LOINC release (version 2.65, December 2018) content on FHIR terminology server that uses the CodeSystem, ValueSet, and ConceptMap resources

2019
• Publicly deployed converted legacy, Access-based Multiaxial Hierarchy process to SQL Server stored procedures
• Upgraded primary LOINC development database
• Developed tools to support creation and management of FHIR ValueSets
• Developed online browser for LOINC panels, forms, and assessment instruments
• Redesigned and implemented main LOINC editing form in web-based LOINC Management System

2019 (Continued)
• Bolstered LOINC content development capacity
• Installed and evaluated LHC Forms Builder software
• Enhanced current tools for creating and managing LOINC panels
• Published LOINC 2.66 including new set of consumer-friendly LOINC terms and new FHIR ValueSets
• Deployed updated RELMA
• Updating LOINC webpage to be more user-friendly and improve searchability
Annual Environmental Scan Report
Prioritizing for 2020

SARS-CoV2/COVID-19 Response
Regenstrief has received numerous requests to create and assign appropriate LOINC codes for their SARS-CoV-2 test kits

Webpage Enhancements
Increase searchability and continue to make user-friendly updates to LOINC website

Education and Outreach
Increase outreach and education efforts to promote awareness of LOINC content and resources

Update LOINC Content
Continue to update LOINC content and expand FHIR API implementation, including new data classes and elements identified in the ONC USDCI
ONC Resources Relating to COVID-19

Interoperability for COVID-19 Novel Coronavirus Pandemic

https://www.healthit.gov/isa/covid-19

Tools and Resources for the Health IT Community

https://www.healthit.gov/coronavirus
Contact ONC

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