Cancer Pathology Common Libraries

Committee Approval Date:

Publishing Lead:
Dave deRoode

Contributing or Reviewing Work Groups:
O&O, PHWG, CIC,

FHIR Development Project Insight ID:

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Scope of coverage:
The scope will specify universal exchange standards for sharing structured information between pathology laboratories and EHR systems, regardless of jurisdictional boundaries, nationalities and all respective terminology considerations.

Content location:
(Requested Git pending)

Proposed IG realm and code:
uv/cancer-pathology-common-libraries

FHIR Core version(s):
Maintenance Plan:
The primary sponsoring WG, O&O, will maintain this guide (pending approval)

Short Description:
This guide defines the general data structure for exchange of Pathology data with clinical EHR systems. This guide can be implemented by pathology lab information systems (LIS) to allow for sharing of the reportable electronic pathology information with external EHR systems in a discrete and standard format. This guide could also be used by EHR systems to validate inbound path lab data so that it is reportable to central cancer registries.

Long Description:
Discrete data elements are captured in electronic format in most LISs, however, EHRs receive data from a pathology lab in an unstructured format. The unstructured format limits the ability to make meaningful decisions on the data and to report data to the jurisdiction-based central cancer registries. There is a need to create an electronic data exchange standard for pathologists to share cancer data with clinicians in hospital system.

This project will use FHIR to support electronic health data exchange of cancer pathology information between a hospital or facility-based laboratory information system (LIS) and hospital or facility-based electronic health record (EHR) system. The goal is to create a data exchange standard and develop a FHIR implementation guide (IG) for sending pathology data captured into an EHR in a consistently structured model should lead to more accurate and complete reporting of information from EHRs to jurisdiction-based central cancer registries and will allow for reuse of cancer pathology data in EHRs for clinical decision making and research.

The scope of the first version of this guide will focus on the data elements in data elements from common types of cancers: breast, lung, colon and rectum, skin, prostate, and central nervous system. This IG will use the FHIR Document paradigm to exchange information modeled as profiled resources.

Involved parties:
National Division of Cancer Prevention - Centers for Disease Control

Expected implementations:
US: mTuitiv, Cerner, Epic
International: TBD

Content sources:
electronic Cancer Checklist protocols
Other (international) protocols, as proposed

Example Scenarios:
This is not a stand alone IG

IG Relationships:
Timelines:

May 2021 - FHIR Connectathon (being tested through US-realm (dependent) IG)
September 2021 - STU1 ballot

FMG Notes