

Electronic Pathology Implementation Project

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Challenge: Lack of Structured Pathology Data

- Need: Identify cancer pathology reports to send cancer registries
- Solution: CDC NPCR developed tool, eMaRC Lite, to process narrative pathology reports using a rule-based language model to:
 - Determine reportability
 - Auto-code histology, behavior, primary site, and laterality
 - Highlight tagged terms for review
- Result: Minimizes manual review required

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Process Batch 📙 Update NLP Models 🧔 Update Connections 🔞 Help	
I Version V2 - Cancer Registry Version (reportab NLP Model Updated default V2 - Cancer Registry Version (reportability, entity recognition and coding)	JSON Response Show JSON Request .
.7 File C:\Flles\HL7 Path Reports\R-fc848200-e471-40df-8c47-dc148bb1f886.hl7 Select View File View File Post to API	
ne Report istology: 8500 Behavior: 3 Site: C504 Laterality: 2 Dx Date: 20230517 Reportable: True	"MessagelD": "C:\\Flles\\HL7 Path Reports\\R-fc848200- e471-40df-8c47-dc148bb1f886.hl71", "Reportable": true, "Diagnosibate": "20230517", "Entities": [
nalDiagnosis	{ "Id": 2422612, "Entity Tape": 0
PFINAL DIAGNOSIS: LEFT BREAST, L1, 11-12 O'CLOCK 4 CM FROM NIPPLE, CORE BIOPSY INVASIVE J <mark>CTAL CARCINOMA</mark> AUBRE GILBERT, MD/TROY TENNEY, DO /KELLY LYNN ERNST, MD JECTRONICALLY SIGNED BY ERNST, KELLY LYNN, MD ON 5/19/2023 AT 4:23 PM	"OBXSegment": 4, "EntityPhrase": "INVASIVE CARCINOMA OF NO SPECIAL TYPE", "Offset": 260, "Offset": 260,
xtDiagnosis	"Length": 37, "IsNonreportableSkinHistology": false,
-85003 M-80103 M-80001 50.9 C50.0	"IsSkinSite": false, "IsNegated": false, "NegationType": 0,
inicalHistory	"NegationPhrase": "", "Code": "8500",
CLINICAL HISTORY: 37-YEAR-OLD-WOMAN WITH A 32 MM MASS IN THE LEFT BREAST.	"AdditionalCode": "3", "SiteCriteria": ""
tureOfSpecimen	"IsNonreportableTerm": false, "ConditionalPhrase": null
rossPathology	},
MICROSCOPIC DESCRIPTION: MICROSCOPIC EXAMINATION WAS PERFORMED. AP GROSS ESCRIPTION: A. BREAST, LEFT. "LEFT BREAST, L1,11:30, 4 CM FN MASS, 3.2 CM" IS RECEIVED IN	"ld": 461928, "EntityType": 2, "OBXSegment": 2,

Current Reporting and Processing Infrastructure



*Association of Public Health Laboratories Informatics Messaging Services Platform

Reliable. Trusted. Scientific.

Value of the Cloud: Real-time Data Reporting

- Enable faster reporting of all cancer cases
 - Including childhood and young adult cancers
- Find out what interventions work
- Inform resource allocation
- Timely identification for clinical trials
- Identify research priorities more quickly



Trusted Exchange Framework and Common Agreement Cancer Pilot



legal and technical requirements for secure data exchange

*STLTS: State, Tribal, Local and Territorial Public Health Agencies

Cancer Registry B

Cancer Registry A

Arrows represent cancer data exchanged between entities using adopted Cancer Registry Standards for use in TEFCA QHINs and Public Health