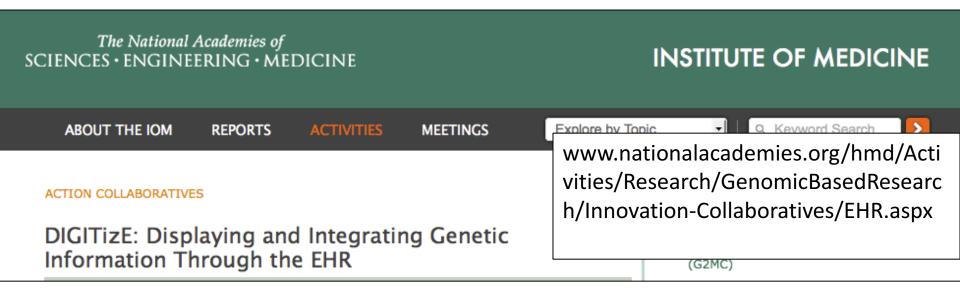
Displaying and Integrating Genetic Information Through the EHR Action Collaborative

DIGITIZE AC

What is DIGITizE?

 Displaying and Integrating Genetic Information Through the EHR Action Collaborative



Who is DIGITizE?

- Government
- Providers
- Laboratories
- Vendors
- Patients Representatives
- Standards Organizations

Membership

Jonathan Hirsch, Syapse

Gillian Hooker, NextGxDx

Stan Huff, Intermountain Healthcare

George Robinson, First Databank

Roberto Rocha, Partners eCare

Wendy Rubinstein, NCBI

DIGITizE's Purpose

Facilitate Development and Rollout of
Genetic Aware
Electronic Clinical Decision Support

DIGITizE's Focus Areas

Develop Implementation Guides

Enable Collaborations to Piloting Guides

Common Hospital IT Phases

Legacy EHR

Install Commercial EHR Enhance Commercial EHR

Developing Guides

First Implementation Guide

Pre and post test alerts for abacavir and azathioprine

Required data movement from lab to provider

Recommended provider CDS logic

Establishing Connectivity and

Pharmacogenor Decision Suppor Protect Patients HLA-B*57:01 ar Variants

An Implementation Guide

12/1/2015
Displaying and Integrating Genetic Information (DIGITizE AC)

Version 1.0

When applying this observation to an HL7v2 message, 50956-2:*HLA-B**57:01 represents the observation code that would populate the OBX-3 field of a single OBX segment returned to the ordering provider system from the testing laboratory system. The observation result value associated with this same OBX segment is found in the field OBX-5 which would contain one of two ordinal values, positive or negative.

The SNOMED-CT codes for Positive and Negative are 10828004 and 260385009, respectively. SNOMED codes are strongly recommended for accurately and precisely representing the Positive or Negative result.

The reporting laboratory is to use this LOINC code to affirm that they tested for the specific *HLA-B**57:01 allele and one of the two SNOMED codes to convey they have observed that the patient's specimen either contains it or does not contain it. If an OBX segment containing this LOINC code is not returned by a testing laboratory and stored in a manner that is available to the CDS algorithm then it cannot be assumed that the patient has been tested for the presence or absence of the *HLA-B**57:01 allele, which is directly related to the hypersensitivity of abacavir. Here's a partial OBX segment example of the key elements discussed above:

For a <u>positive</u> finding of the *HLA-B*57:01* allele...

OBXI1I..I50956-2^HLA-B*57:01^LN | II10828004^Positive^SCT~LA6576-8^Positive^LN-ANS | ...

And, for a <u>negative</u> finding of the *HLA-B*57:01* allele...

OBXI1I..|50956-2^HLA-B*57:01^LN | ||260385009^Negative^SCT~LA6577-6^Negative^LN-ANS |...

NOTE: The examples above includes the equivalent SNOMED-CT (SCT) and LOINC Answer (LN-ANS) codes in each OBX-5 field. While SNOMED-CT is the preferred standard, it does not prevent the ability to provide the equivalent answer code from the LOINC Answer list. This guide does specify a requirement to use the SNOMED-CT values so that the receiving system can fulfill the CDS rules associated with this test result.

CSER – DIGITIZE Collaboration

Building Lynch Syndrome Guide

 Goal is to provide clinicians with proactive alerts to prompt screening colonoscopies for patients with Lynch Syndrome

 Key step is prompting clinicians to consider placing Lynch Syndrome on the problem list in the event a positive genetic result

Key Learning

 Many individuals from many different backgrounds will invest their time to help

 But dedicated effort for project management, analysis and coordination still required

 Limited number of individuals who can play these roles

Pilots

Status

Multiple organizations working towards pilots

 Significant interest in remaining engaged and sharing war stories through the process

 Still the realm of hospital IT – vendors including EHR vendors play a supporting role

Lessons Learned

 Competition of Clinical IT Resources is Extreme

Multi-phase approval processes

 Multiple levels of complexity in implementation

Common Hospital IT Phases

Legacy EHR

Install
Commercial EHR

Enhance
Commercial EHR

Processes and Organizations

for Innovation in this Phase is

Being Defined Now