Open@Epic CONFERENCE

How Industry Standards Solve Real-World Problems

Presenters



John Stamm

EDI Technical Services



Natan Shpringman

EDI Technical Services

Agenda

01 **Problem Solving with Standards**

Examples

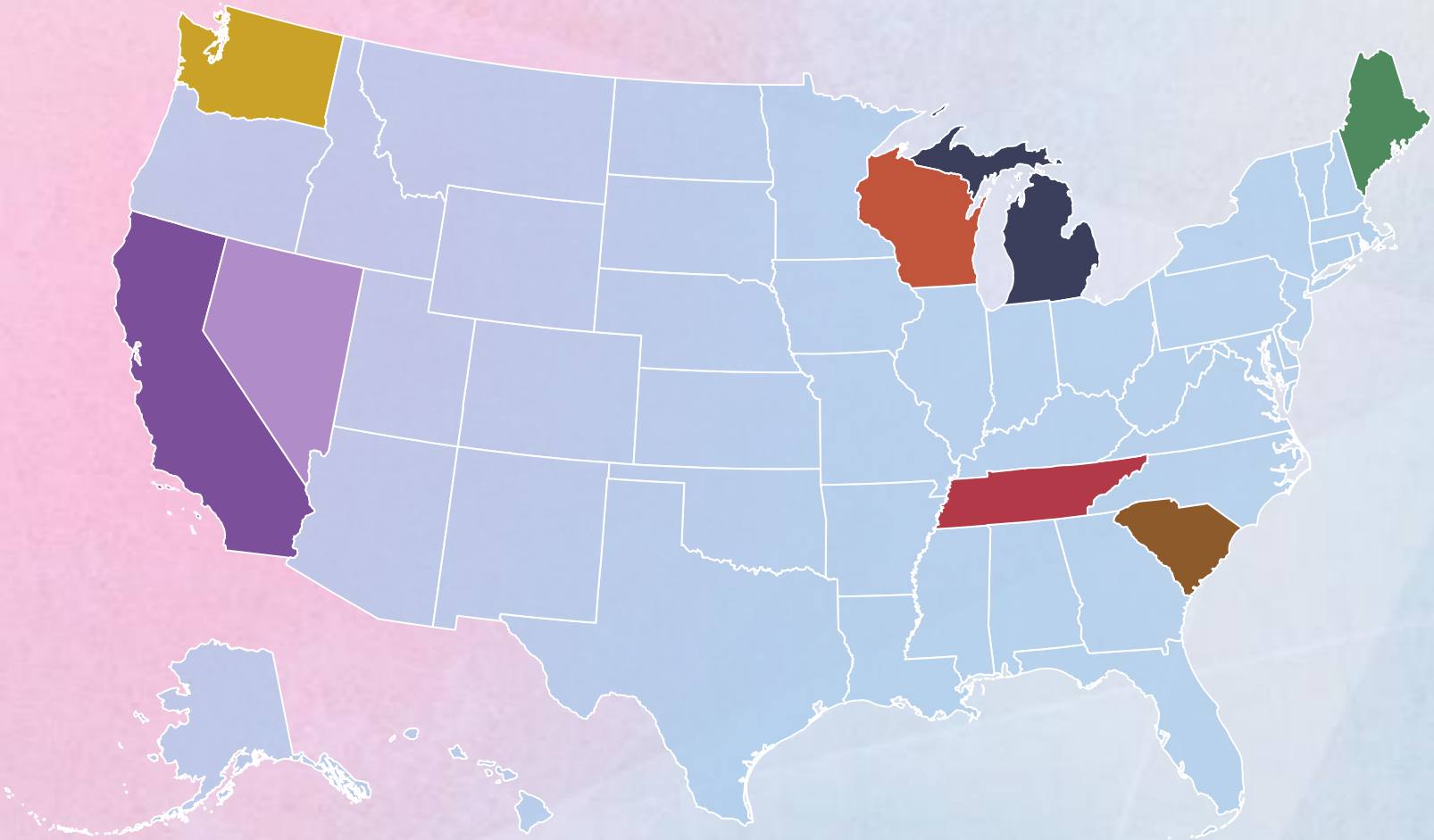
02 **Create and Update Standards**

Death Data

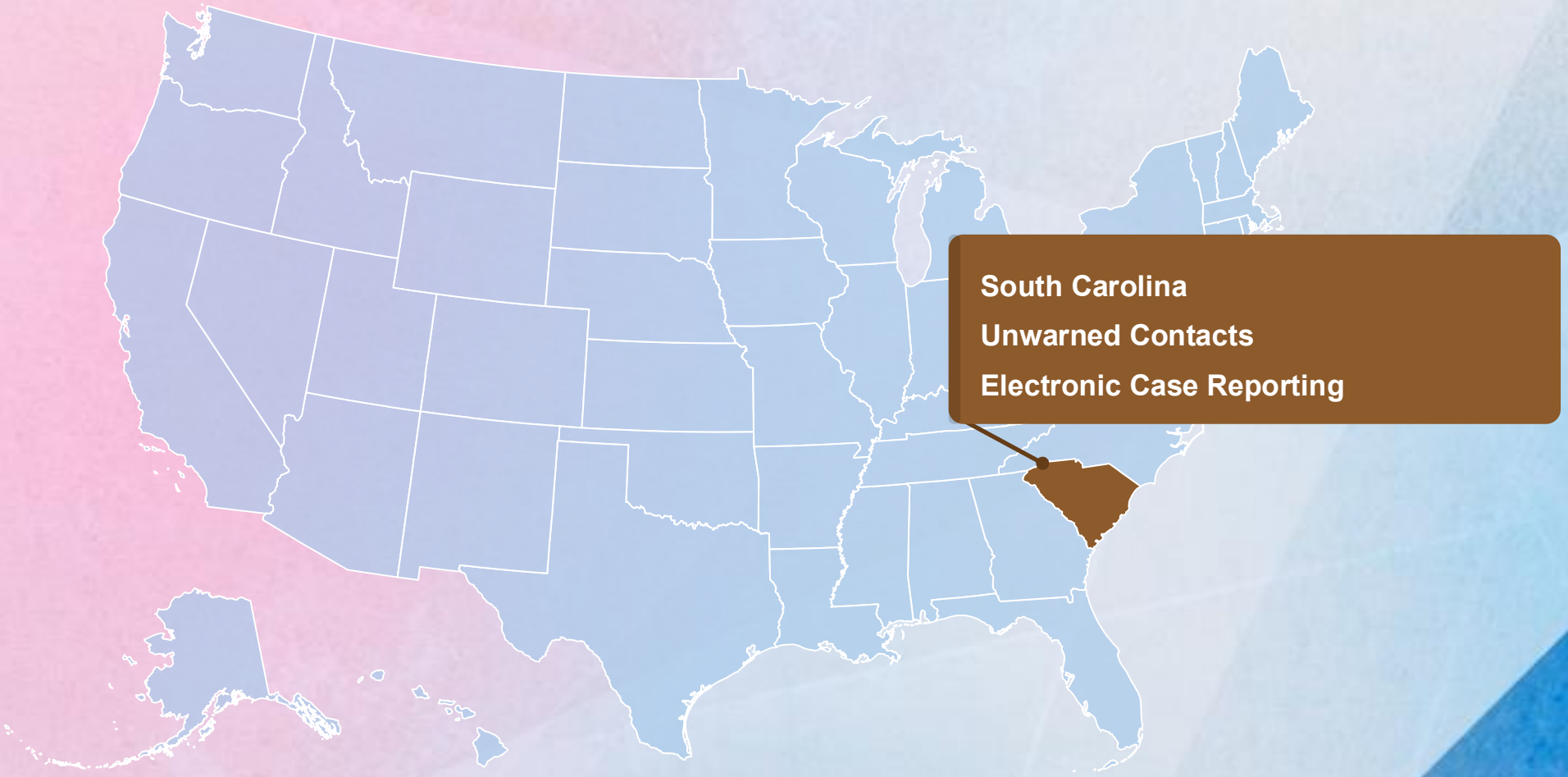
03 **Venues for Involvement**

How you can help

Diverse Challenges



Identifying Measles Too Late



Challenge
LOINC Isn't Known at Order Time

Template represents trigger code ordered lab tests only.

Selected from Code System LOINC

South Carolina
Unwarned Contacts
Electronic Case Reporting

LOINC Isn't Known at Order Time

Template represents trigger code ordered lab tests only.

Selected from Code System LOINC

What Equipment?

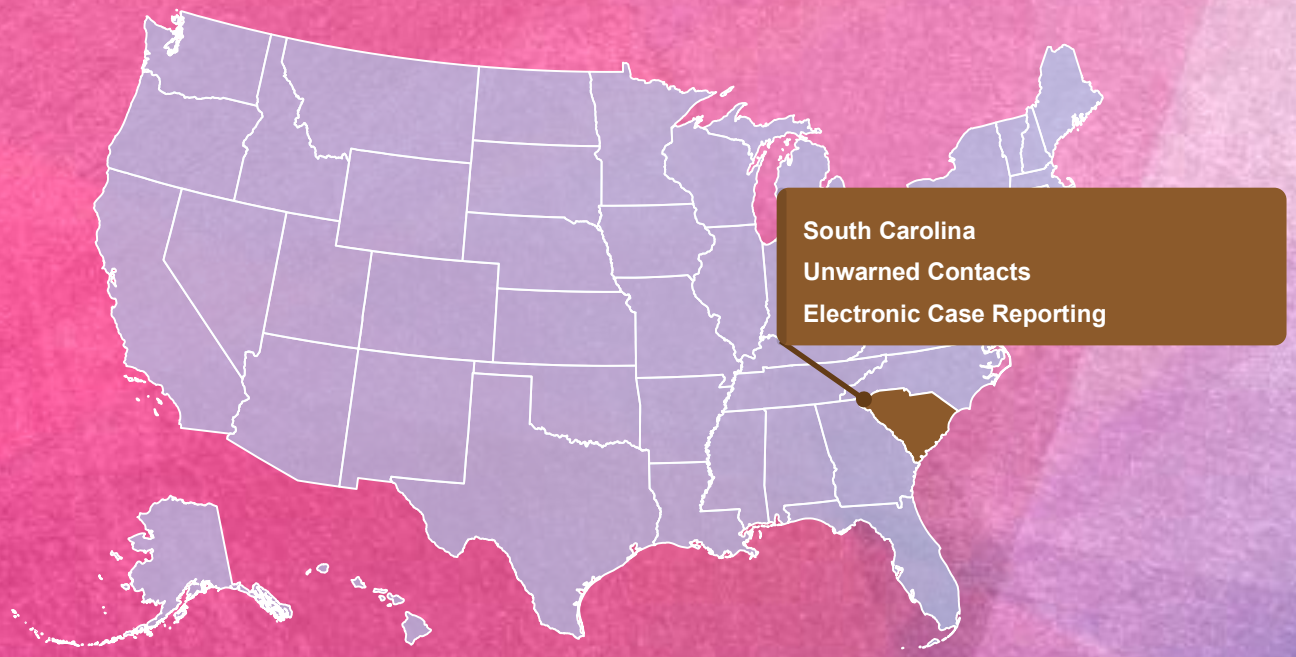
What Specimen?

South Carolina

Unwarned Contacts

Electronic Case Reporting

Trigger on Suspicion



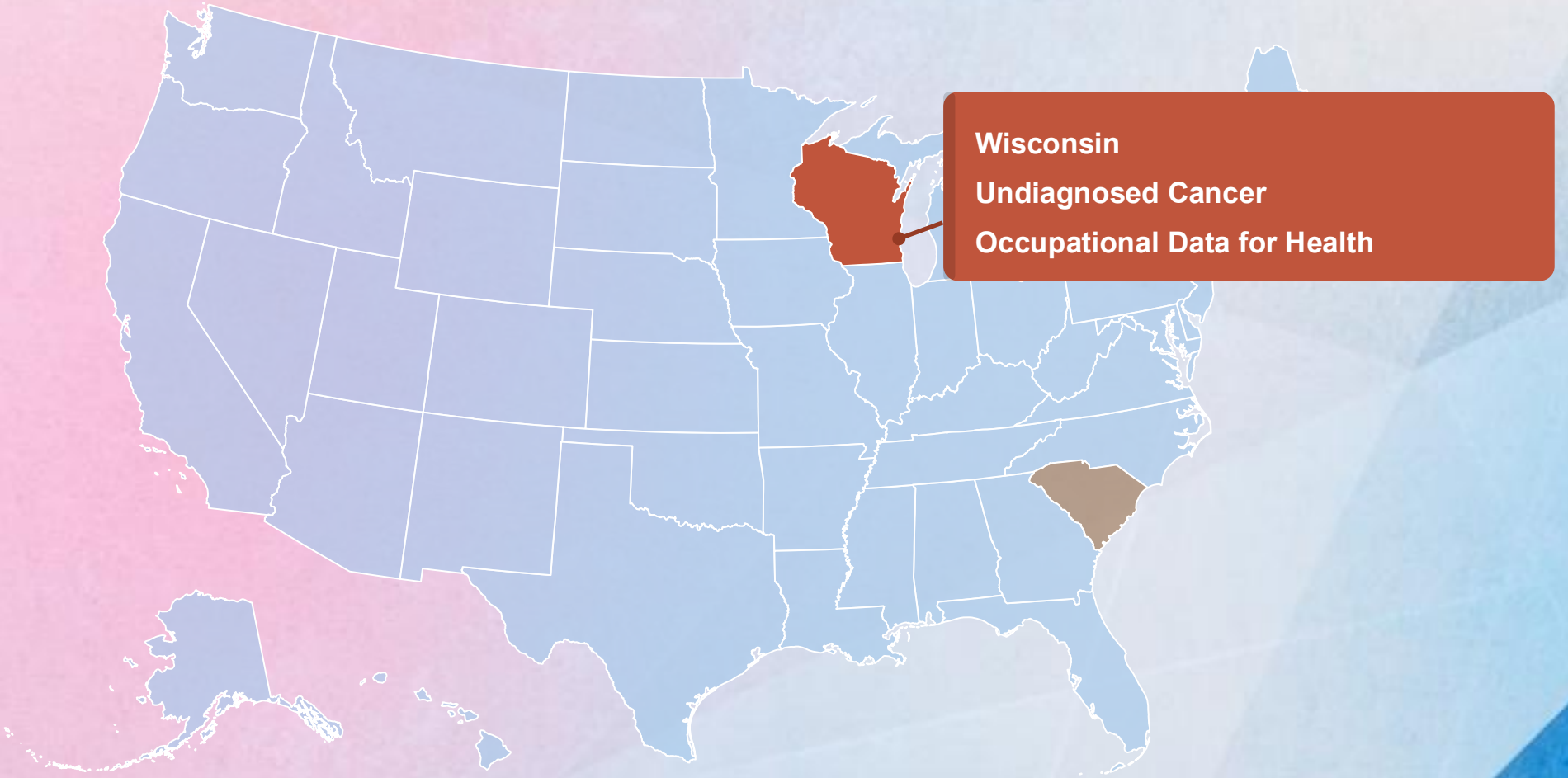
APHL ASSOCIATION OF PUBLIC HEALTH LABORATORIES™

Epic

CDC CENTERS FOR DISEASE CONTROL AND PREVENTION

DPH SOUTH CAROLINA DEPARTMENT OF PUBLIC HEALTH

Unidentified Asbestos Exposure



Challenge
Differing Occupational Data Needs

Cancer Reporting

Longest-Held Work

Case Reporting

Current Job?

Past or Present Jobs

Wisconsin
Undiagnosed Cancer
Occupational Data for Health

Differing Occupational Data Needs

Cancer Reporting

Current Job?

Past or Present Jobs

Longest-Held Work

Case Reporting

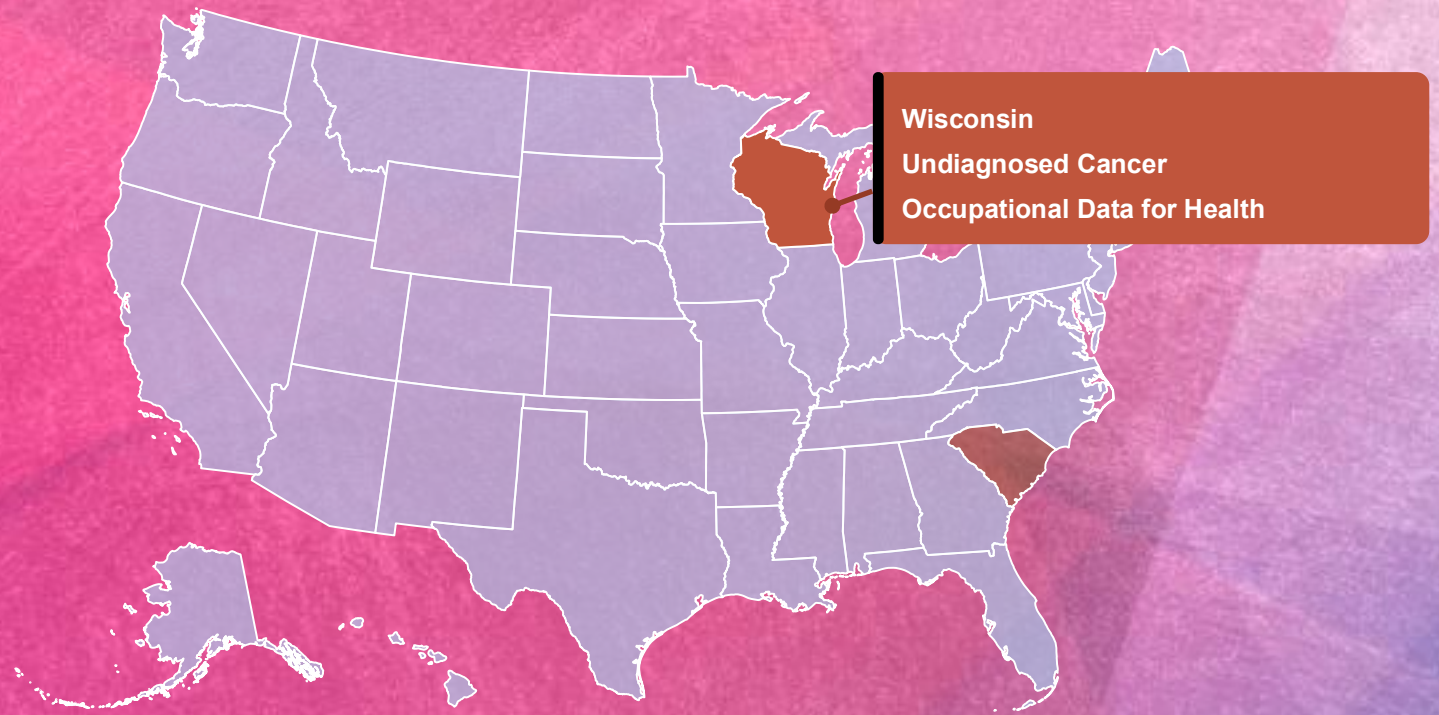
Current Job?

Past or Present Jobs

Longest-Held Work

Wisconsin
Undiagnosed Cancer
Occupational Data for Health

Occupational Data in USCDI

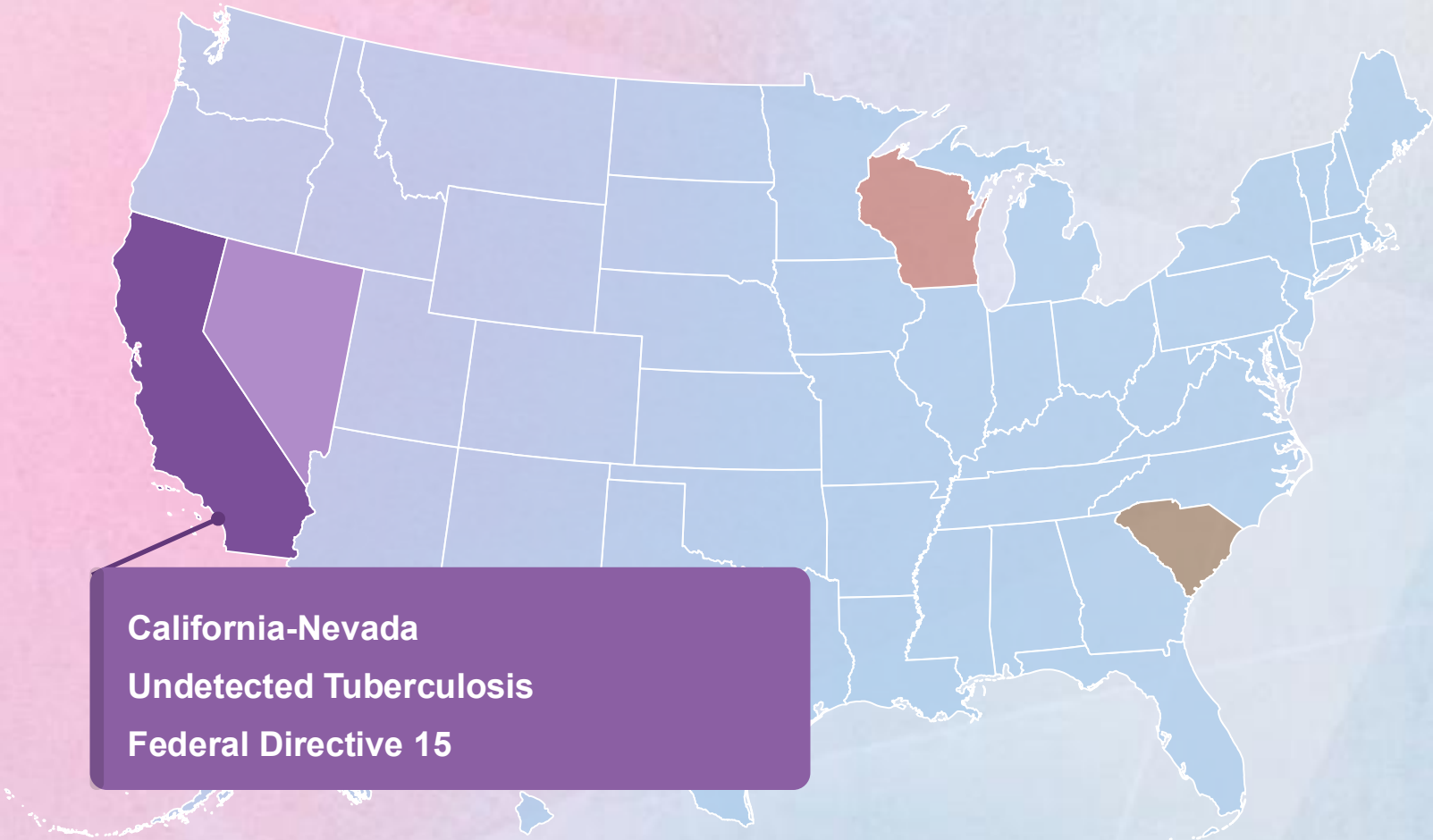


National Institute for Occupational Safety and Health
NIOSH

WISCONSIN DEPARTMENT of HEALTH SERVICES

Altarum

Tuberculosis in Pacific Islanders



Challenge
Misaligned Race Codes

California	Federal/Nevada
-Hawaiian -Tongan -Samoan	-Native Hawaiian or Other Pacific Islander

California-Nevada
Undetected Tuberculosis
Federal Directive 15

Misaligned Race Codes

3.1

National TB incidence rate, per 100,000 — 2024 (CDC)

37.2

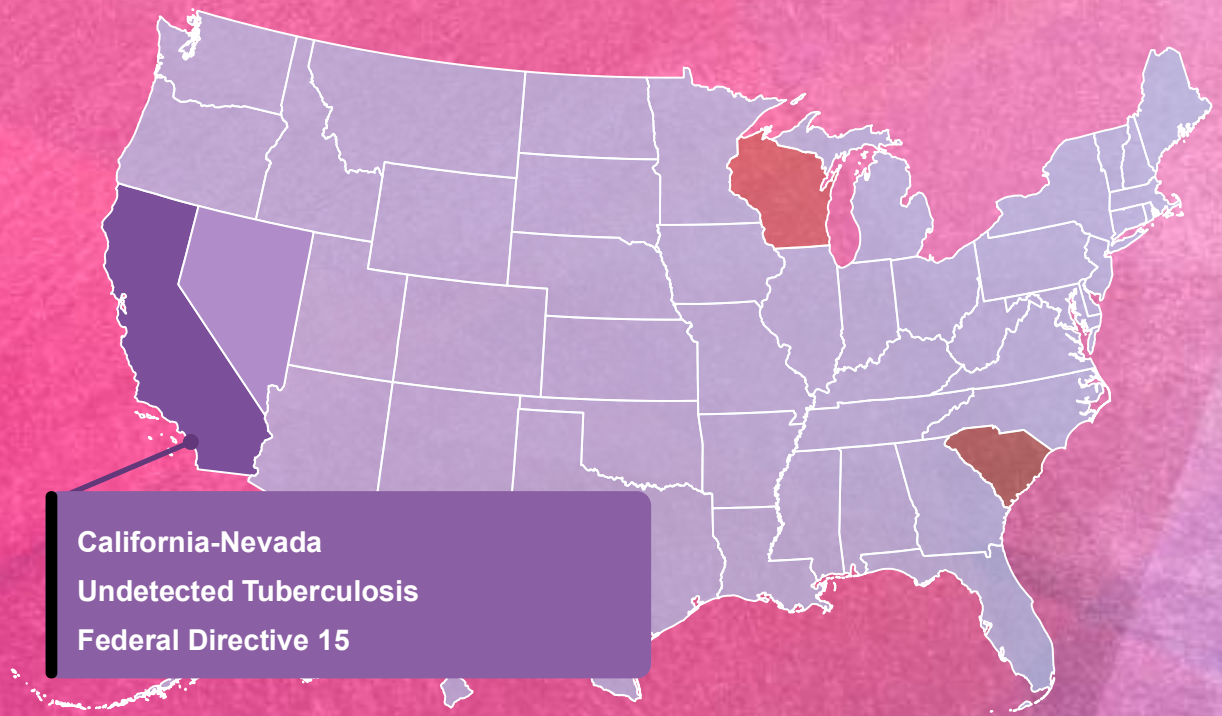
TB incidence rate among Native Hawaiian or Pacific Islander persons — 2024 (CDC)

California-Nevada

Undetected Tuberculosis

Federal Directive 15

Aligning Race Values



California-Nevada
Undetected Tuberculosis
Federal Directive 15

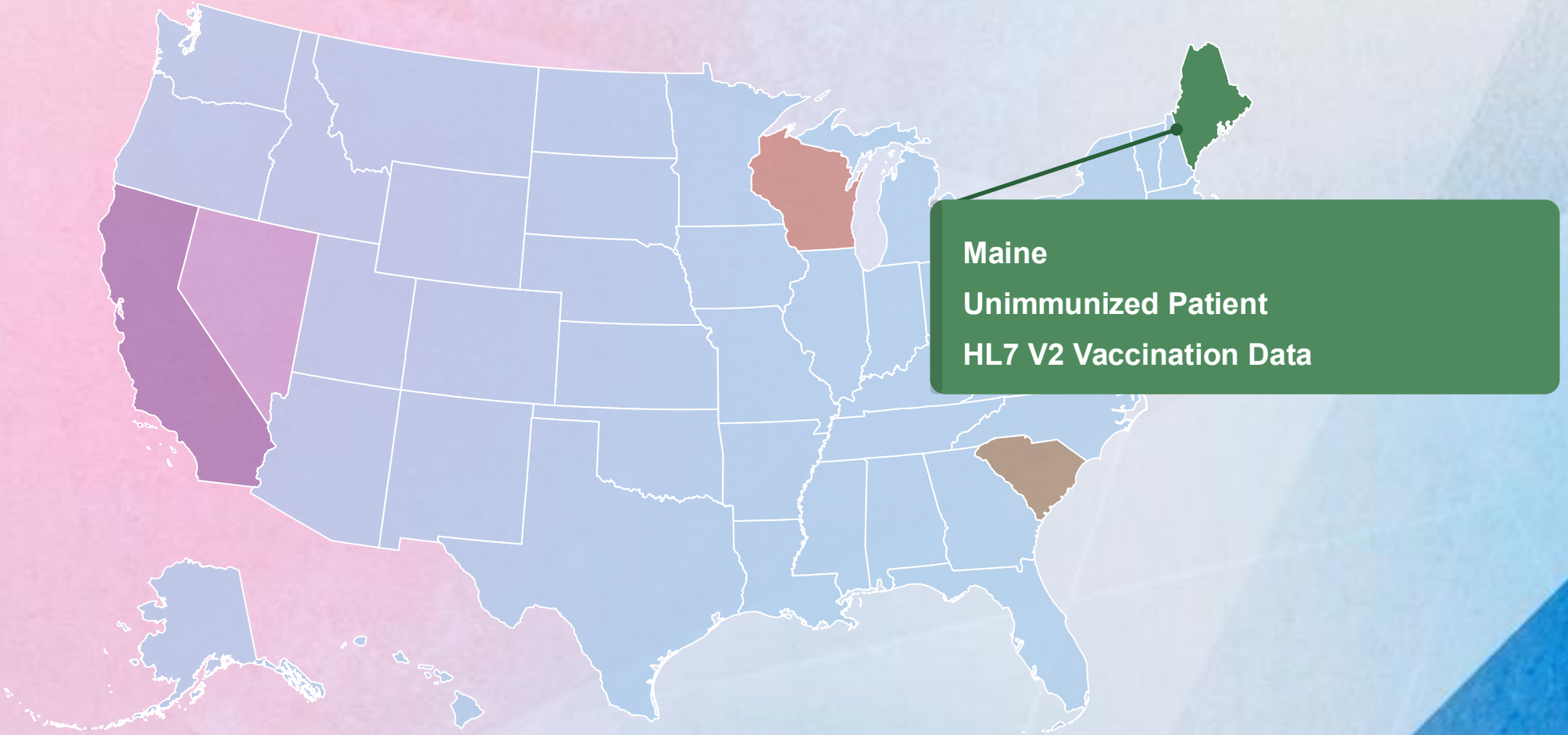
California Department of PublicHealth

Epic

EXECUTIVE OFFICE OF THE PRESIDENT OF THE UNITED STATES
OFFICE OF MANAGEMENT AND BUDGET

NEVADA DIVISION of PUBLIC and BEHAVIORAL HEALTH

Incomplete Vaccination Series



Challenge
Immunization Location Without Address



Maine

Unimmunized Patient

HL7 V2 Vaccination Data

Immunization Location Without Address

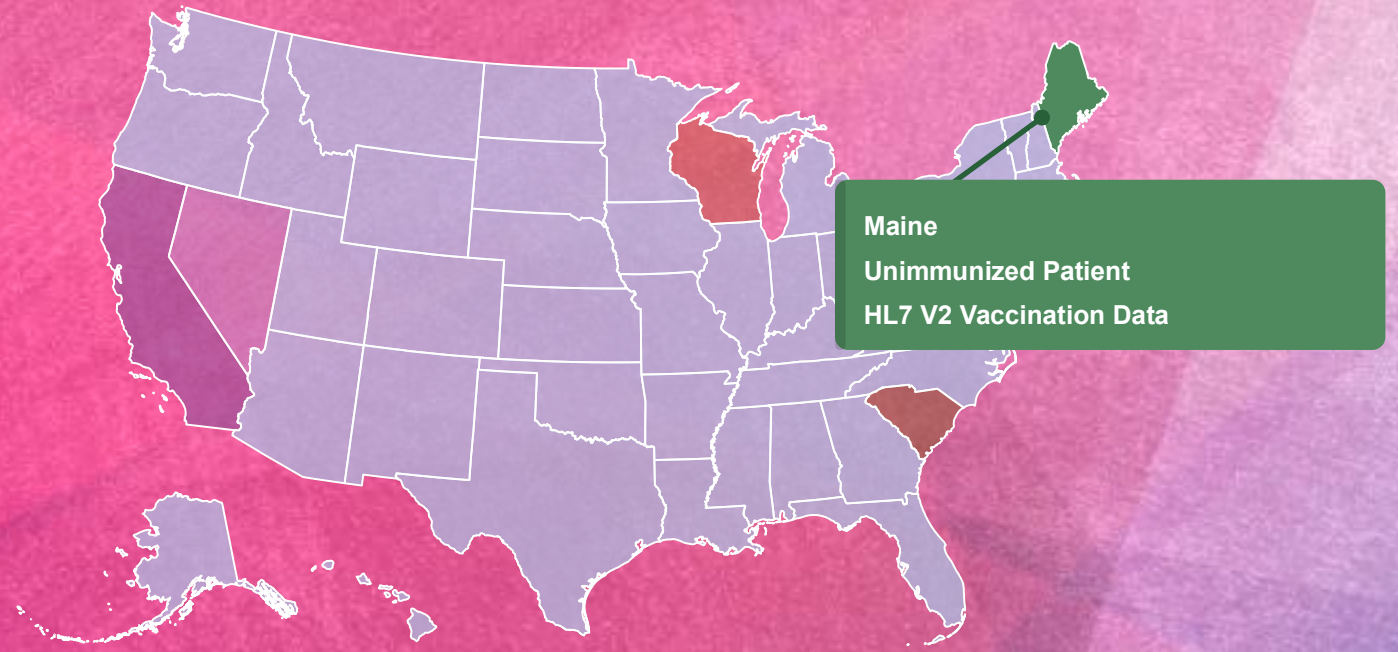


Maine

Unimmunized Patient

HL7 V2 Vaccination Data

Recommend, Do Not Require

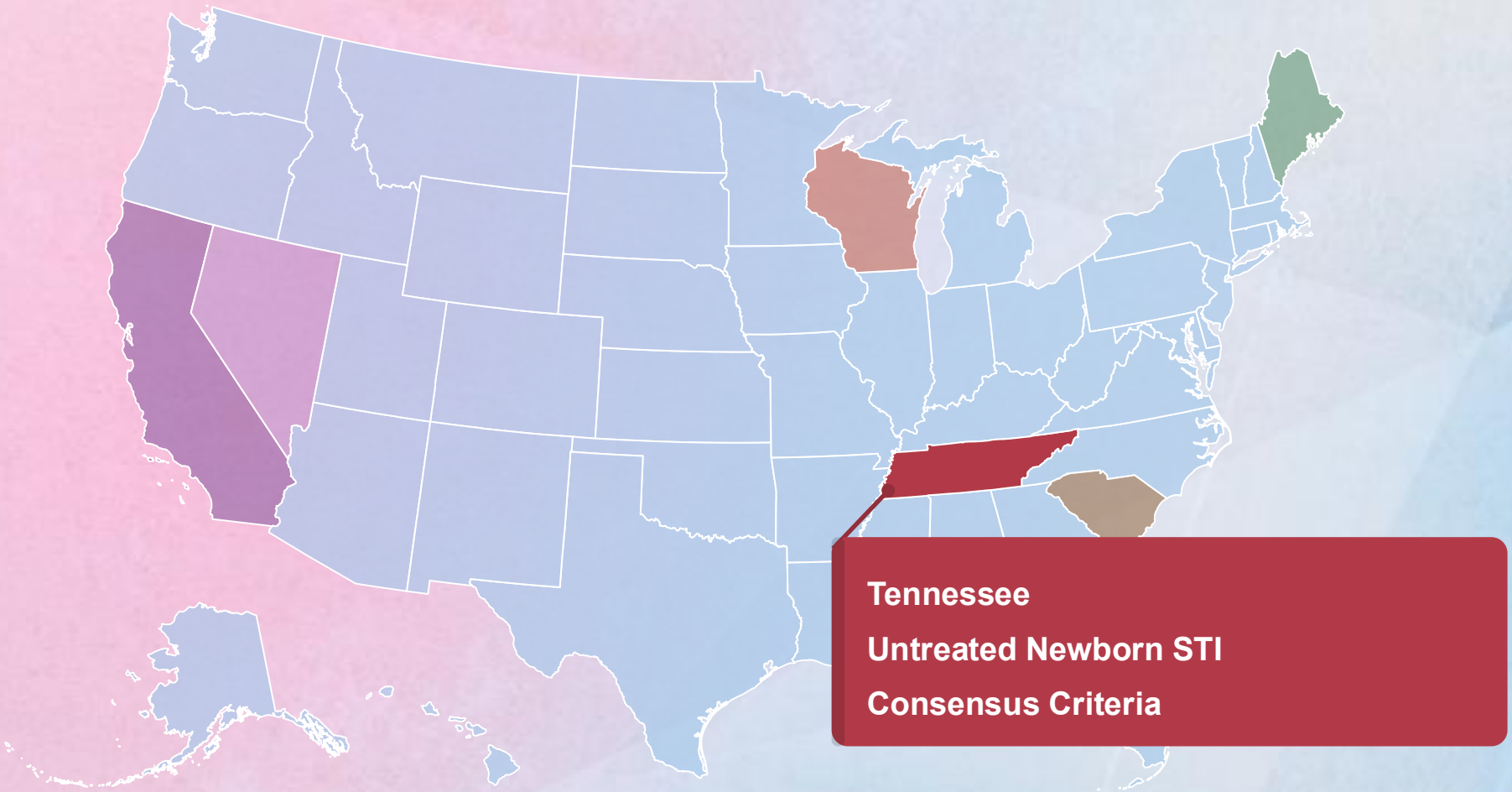


AIRA
AMERICAN IMMUNIZATION REGISTRY ASSOCIATION

MPHA
Maine Public Health Association

COLORADO
Department of Public Health & Environment

STI Transmission to Newborns



Challenge
Overly Restrictive Values

185%

National increase in congenital syphilis cases, 2017–2021 (TDH)

227%

Tennessee's increase in congenital syphilis cases, 2017–2021 (TDH)

Tennessee
Untreated Newborn STI
Consensus Criteria

Overly Restrictive Values



Patient Gender 95%; Valid Code



Facility Type / Hospital Unit 95%; Correct Value Set



Provider Name 80% Complete

Tennessee
Untreated Newborn STI
Consensus Criteria

Home Dialysis

A

Hemodialysis Unit

B

Patient's Residence

C

Provider's Office

D

Don't map this value

Home Dialysis

A

Hemodialysis Unit

B

Patient's Residence

C

Provider's Office

D

Don't map this value

Lines, Drains, and Airways Services

A

Hospital Unit

B

Skilled Nursing Facility

C

Outpatient Facility

D

Don’t map this value

Lines, Drains, and Airways Services

A

Hospital Unit

B

Skilled Nursing Facility

C

Outpatient Facility

D

Don’t map this value

Critical Care Medicine

A

Coronary Care Unit

B

Neurology Critical Care and Stroke Unit

C

Intensive Care Unit

D

Don’t map this value

Critical Care Medicine

A

Coronary Care Unit

B

Neurology Critical Care and Stroke Unit

C

Intensive Care Unit

D

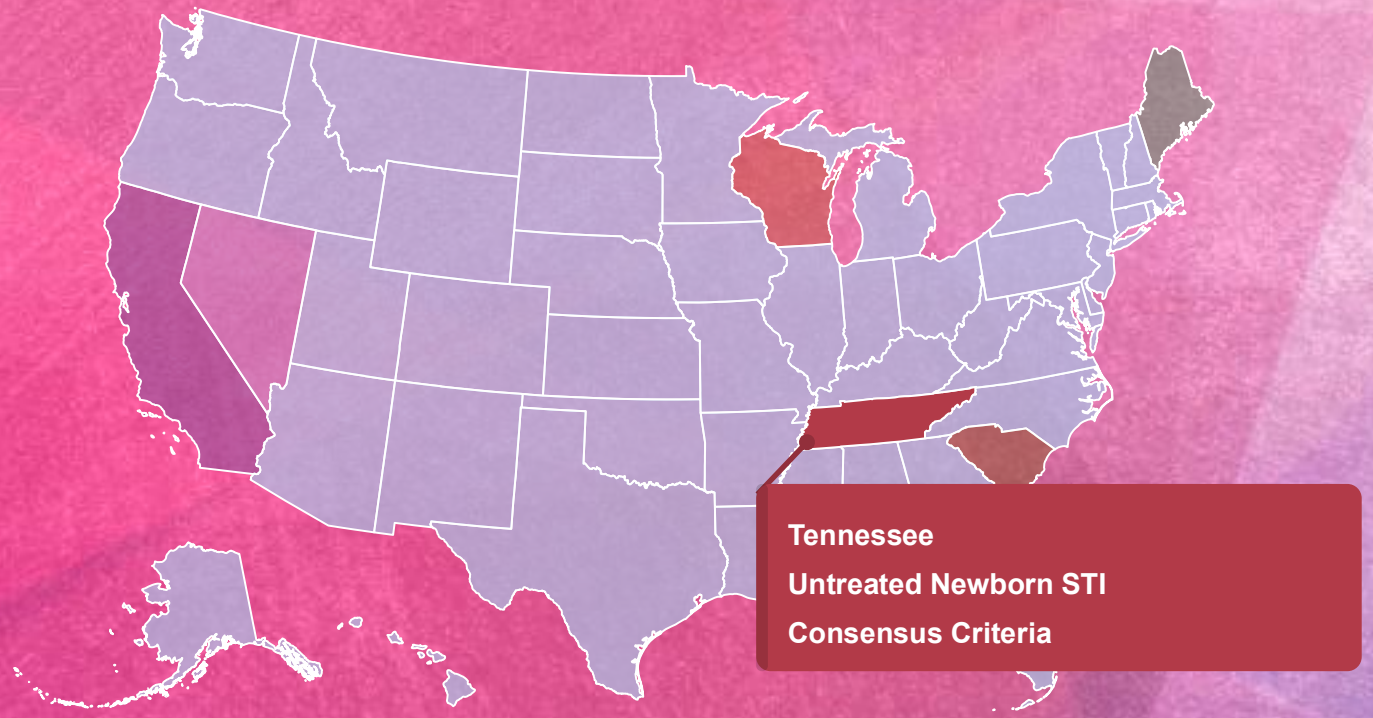
Don’t map this value

Overly Restrictive Values

Patient Gender	95%; Valid Code
Facility Type / Hospital Unit	95%; Correct Value Set
Provider Name	80% Complete

Tennessee
Untreated Newborn STI
Consensus Criteria

Broaden Value Sets



CSTE

EHRA
HIMSS Electronic Health Record Association

TN Department of Health

Agenda

01 **Problem Solving with Standards**

Examples

02 **Create and Update Standards**

Death Data

03 **Venues for Involvement**

How you can help



Building Standards Together

X12

carequality

DA VINCI HL7 FHIR

DICOM
Digital Imaging and Communications in Medicine

eHealth Exchange

USCDI

TEFCA

EHR DEVELOPER CODE OF CONDUCT
EHRA
HIMSS ELECTRONIC HEALTH RECORD ASSOCIATION

HL7 FHIR ARGONAUT PROJECT

HL7 International

IHE INTERNATIONAL
Integrating the Healthcare Enterprise

NCPDP

ONC Certified HIT

the sequoia project

And many more...

The Problem

NIH

~20%

Deaths certified in the US by a coroner or medical examiner outside of the healthcare system.

NIH

~35%

Deaths certified on paper at Intermountain within Utah's mandated 72 hours

~78%

with electronic death certificate module

JAMA
The Journal of the American Medical Association

~20%

of patients listed alive with a serious illness at UCLA were in fact deceased.

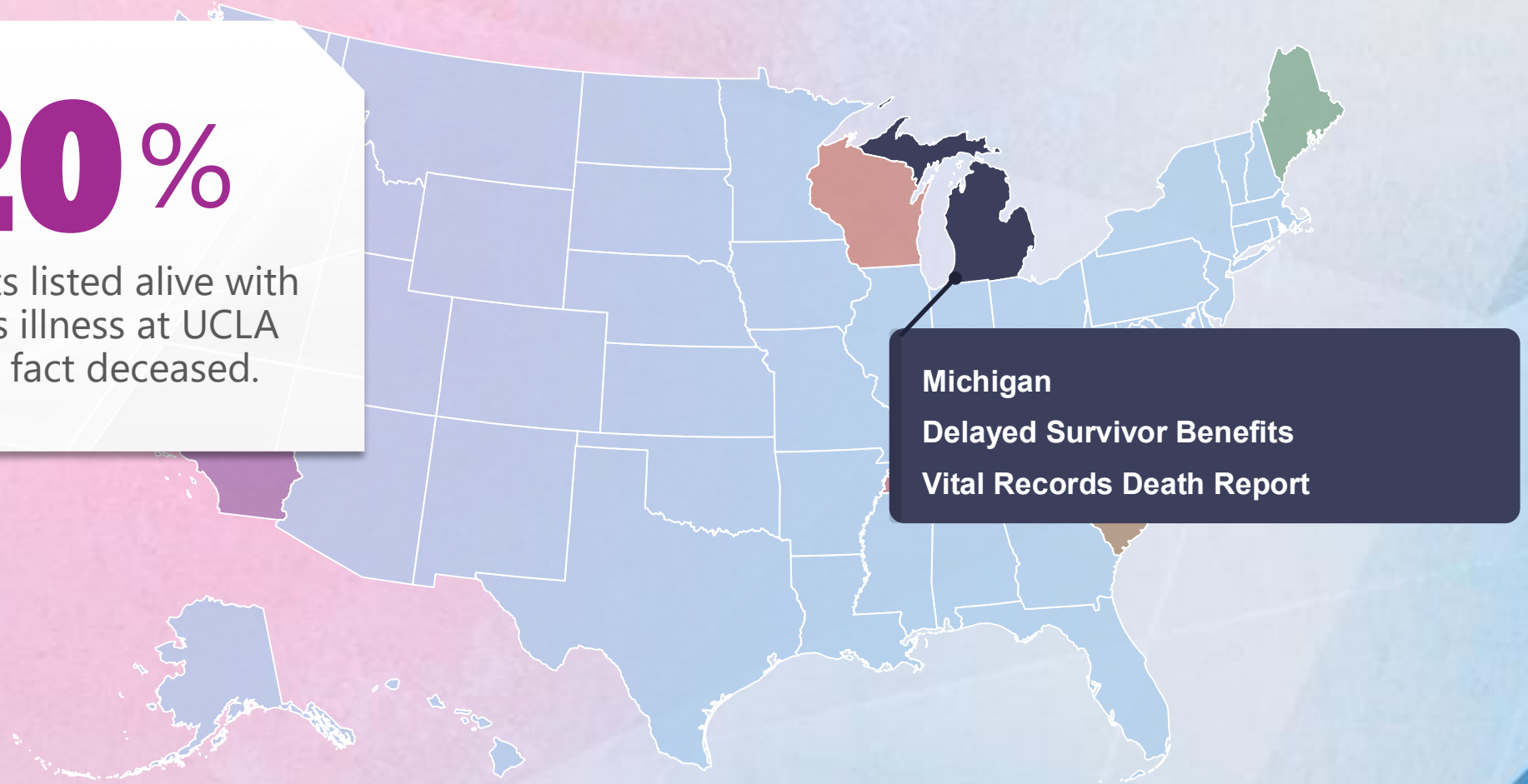
Death Investigation in the United States: Forensic Pathology – NIH
Completing Death Certificates from an EMR – NIH
Consequences of a Health System not Knowing Which Patients are Deceased – JAMA

Delayed Survivor Benefits

JAMA

~20%

of patients listed alive with a serious illness at UCLA were in fact deceased.



Provider to Vital Records – HL7 Jira

HL7 Vital Records Death Reporting

Michigan

Delayed Survivor Benefits

Vital Records Death Report

FHIR Specification Feedback / FHIR-50344

Clarify requirement of Death Record Identifier

Add comment | Attach files | More | Triaged

Details

Type:	Change Request	Resolution:	Unresolved
Priority:	Medium		
Specification:	US Vital Records Death Reporting (VRDR) (FHIR)		
Raised in Version:	current		
Work Group:	Public Health		
Related URL:	https://www.hl7.org/fhir/us/vrdr/StructureDefinition-vrdr-cause-of-death-coded-content-bundle-definitions.html#diff_Bundle.identifier.value		
Related Artifact(s):	Death Certificate Document		

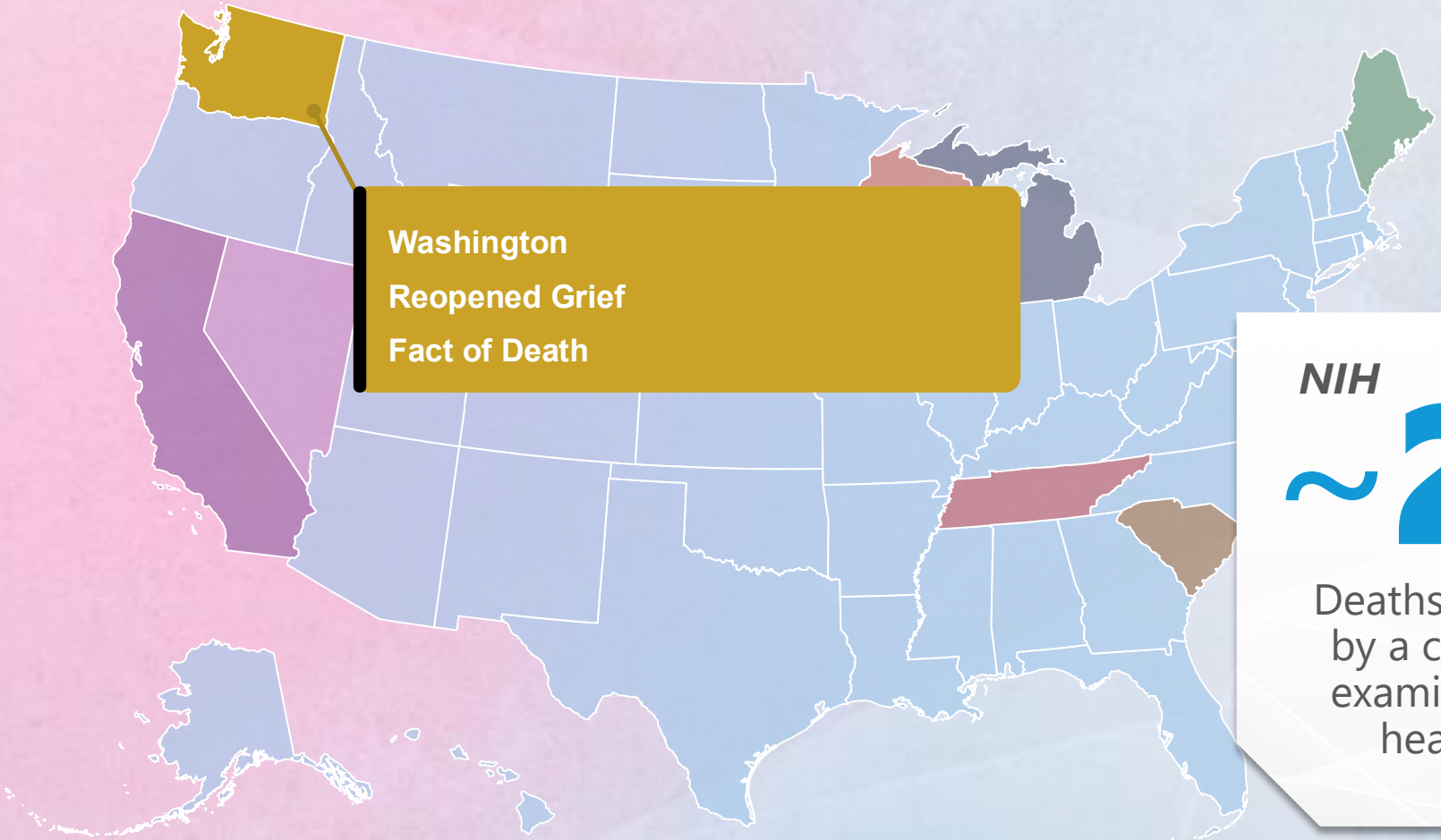
Description

We should make it clear that the defined format of the Death Record Identifier (the year of death, the jurisdiction of death, **and the death certificate number assigned by the jurisdiction**) is not feasible for the initial outbound interaction from an EHR to a jurisdiction. The death certificate number is assigned by the jurisdiction, not the EHR.

Community Responses

CDC: "… A document type will be provided that is specific from the EHR to jurisdiction."

Reopened Grief



NIH

~20%

Deaths certified in the US by a coroner or medical examiner outside of the healthcare system.

Fact of Death

Fact of Death Implementation Guide Proposal

Short Description:

This IG provides guidance on how fact-of-death notifications can be sent to providers and potentially other clinical systems using FHIR. For example, Vital Records Offices can use this IG to send fact-of-death notifications to EHRs where that patient was seen. By enabling providers to learn promptly and reliably that a patient has died, these fact of death notifications will support active coordination of care and discontinuation of outreach.

External Involved Parties/Accelerators:

- Texas Health Services Authority
- Wyoming Department of Health
- Minnesota Department of Health
- Michigan Department of Health and Human Services
- Utah Department of Health and Human Services
- Washington Department of Health
- CDC

Involved Parties

Review, Expected Implementations, Participation at Testing Events

Washington

Reopened Grief

Fact of Death

Testing with Stakeholders

Fact of Death Implementation Guide Proposal





Involved Parties

Epic, Washington Department of Health, Michigan Department of Health and Human Services

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02 **Create and Update Standards**

Death Data

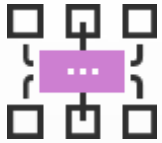
03 **Venues for Involvement**

How you can help

Get Involved



We're All Connected



One Connection, Many Exchange Partners



Multiple Paths Forward

Test and Prototype

Connectathon



Test and Prototype

Connectathon

IHE USA

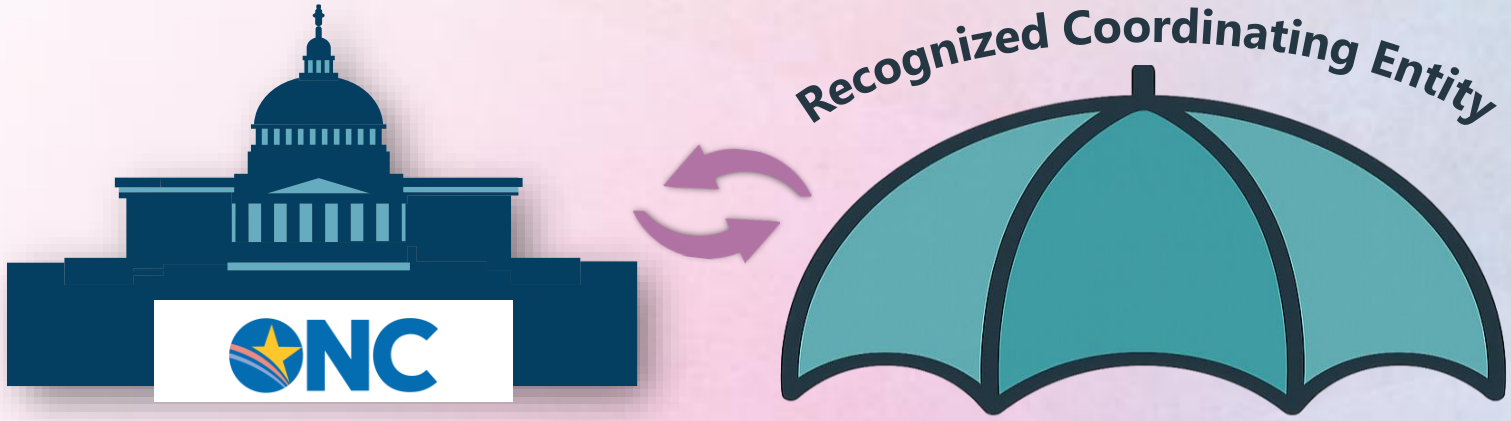
HL7 International

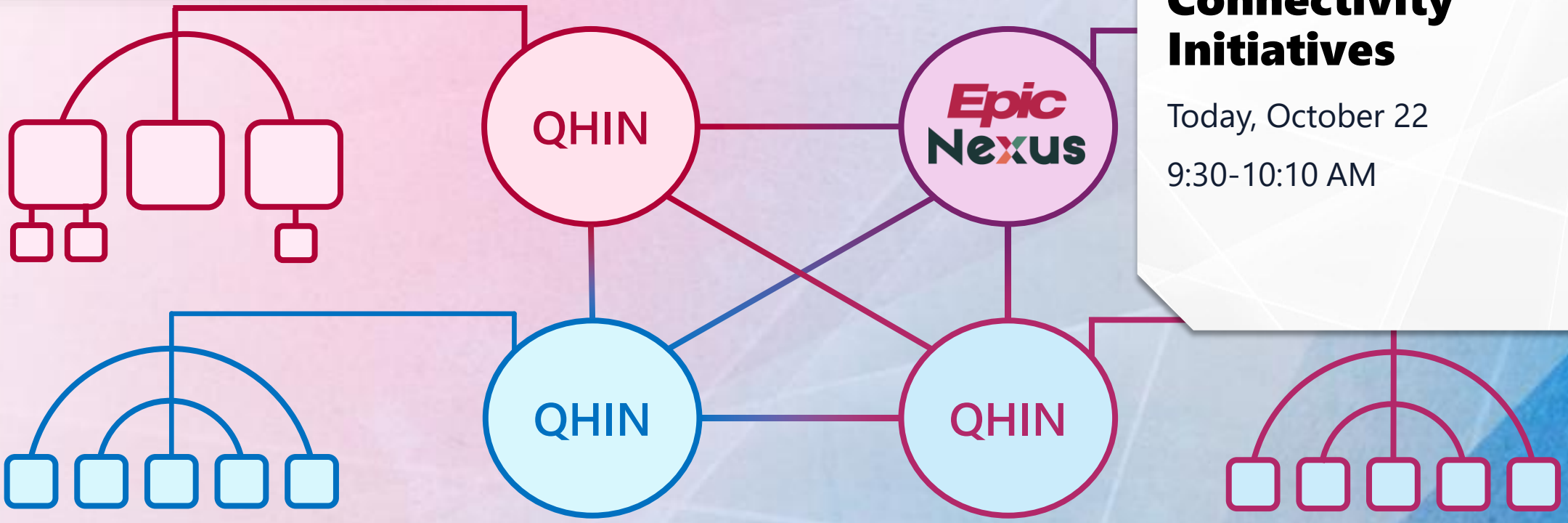
Connectathon Landing Pages

ihe.net/testing/connectathon/

hl7.org/events/fhir-connectathon/

Network: TEFCA





OEC26

US Government-Backed Connectivity Initiatives

Today, October 22

9:30-10:10 AM

open.epic.com/Home/Interoperate/TEFCA

TEFCA℠

Use Cases

Live

Treatment

Patient Access (IAS)

Public Health (eCR)

Government Benefits Determination (SSA)

Coming Soon

Care Coordination

Government Benefits Determination (VBA)

Community Adoption

346

Health systems **live**

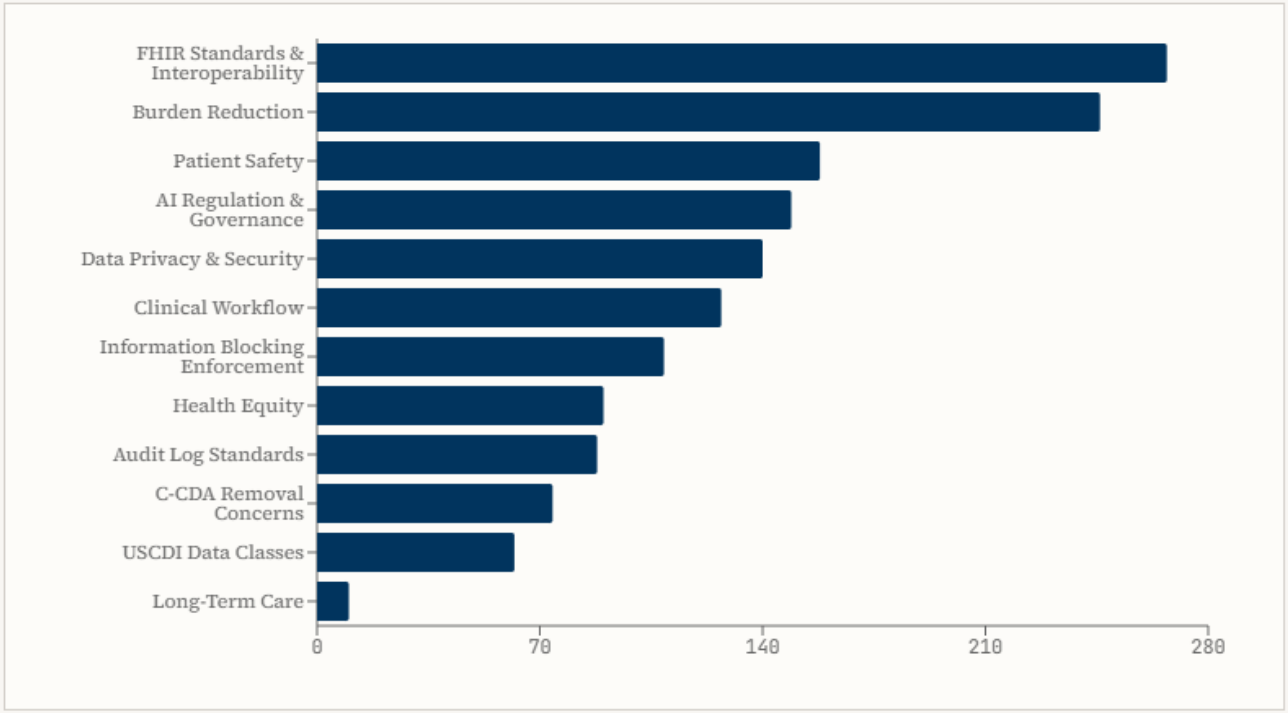
90% of the Epic community live or installing

Regulatory Review

Federal and Regional

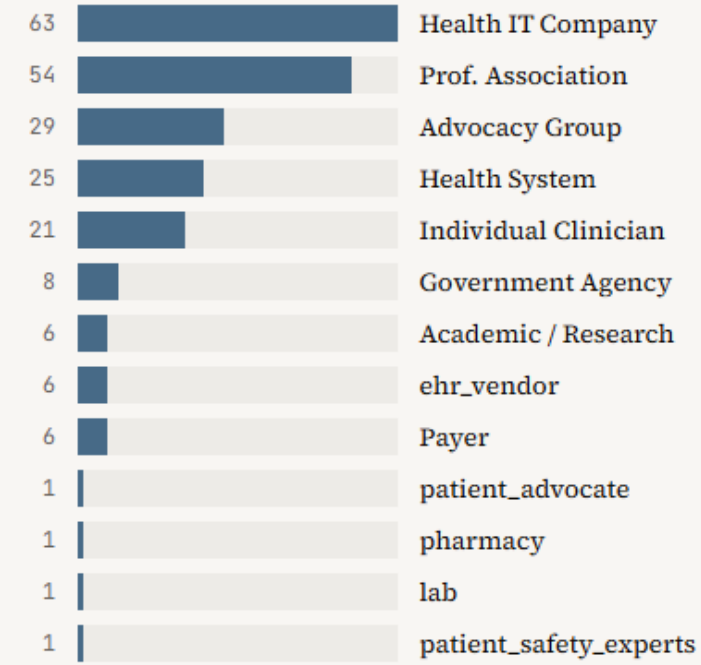
Top Comment Themes

Number of comments mentioning each theme. Many comments addressed multiple themes.



Who Commented

By organization type.



HTI-5.org

Regulatory Review

Federal and Regional

HTI-2 Final Rule

Health Data, Technology, and Interoperability: Trusted Exchange Framework and Common Agreement (TEFCA)

A Rule by the Health and Human Services Department on 12/16/2024

Even More Opportunities

USCDI

An oft revised, standardized list of data elements that EHRs must be able to exchange. Comment on existing suggestions or submit new data elements through ONDEC.

US Core

FHIR implementation guide for USCDI elements. Review and comment through HL7's ballot process.

SNOMED

Comprehensive clinical terminology for diseases, findings, procedures and more. Contribute through the National Library of Medicine.

Argonaut

An HL7 FHIR Accelerator that pressure tests new FHIR specs before they move into regulation. Participate through HL7 membership and HL7 Zulip stream.

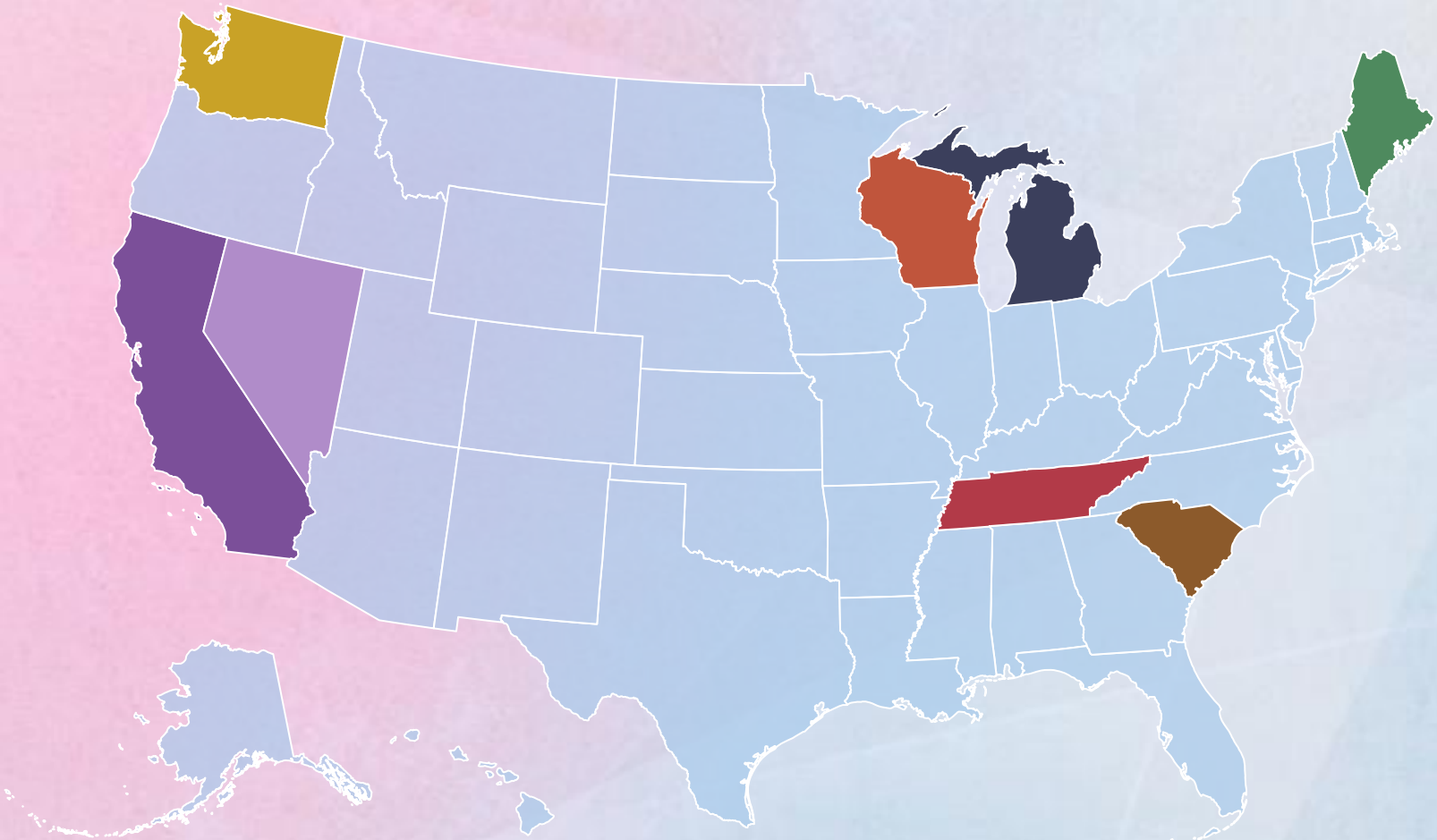
IHE

A standards organization packaging existing standards into profiles for specific use cases. Join a domain committee or participate in yearly testing and education events.

NCPDP

A family of pharmacy standards for data exchange. NCPDP Membership provides work group access and ability to comment on annual change request process.

Solutions Come From Anywhere



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01 **Problem Solving with Standards**

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02 **Create and Update Standards**

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03 **Venues for Involvement**

How you can help

Q&A

John Stamm | jstamm@epic.com

Natan Shpringman | nshpring@epic.com

Test and Prototype

Connectathon

IHE USA

HL7 International

Connectathon Landing Pages

ihe.net/testing/connectathon/

hl7.org/events/fhir-connectathon/

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