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# Towards Health IT Standards Adoption: A Web-based Resource of Health IT Applications and Projects in Public Health

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# Presenter Disclosures

**Noam H. Arzt**

- (1) The following personal financial relationships with commercial interests relevant to this presentation existed during the past 12 months:**

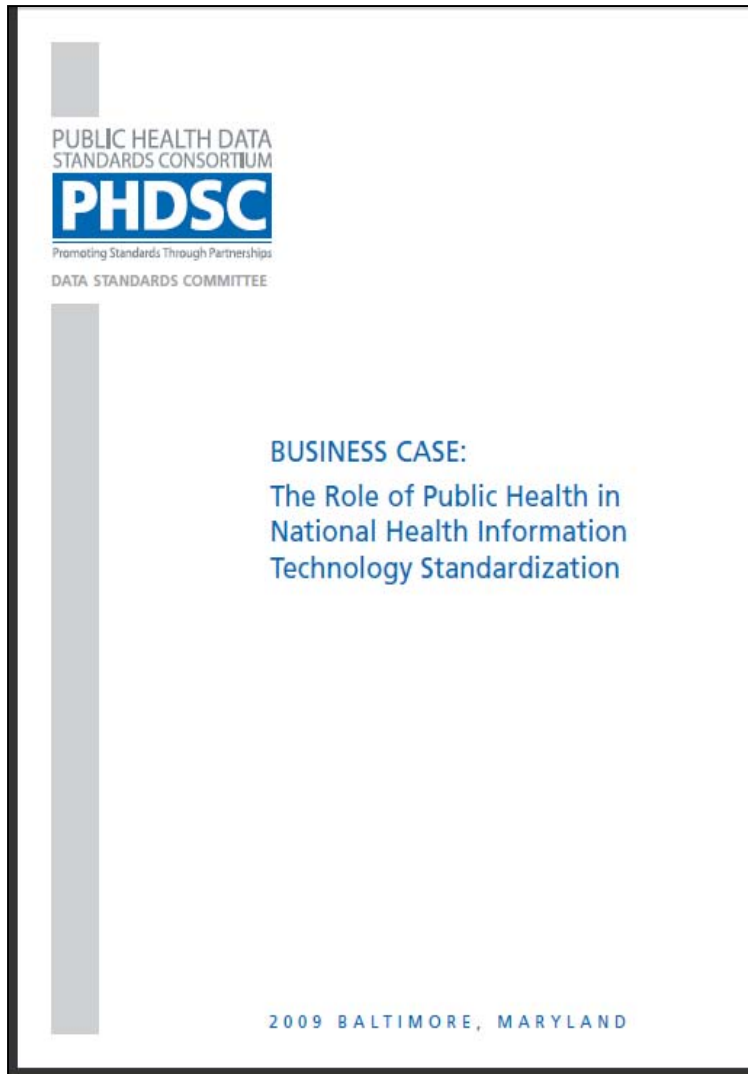
Consultant, Public Health Data Standards Consortium, Health IT



# Outline

- Context for this project: Business Case
- Implementing the Business Case
- Web Resource Center
  - HIT Standards Resources
  - Public Health Participation in HIT Standardization
  - HIT Adoption Stories
  - Public Health Needs for HIT Standardization
- Summary and Conclusions

# Business Case: Public Health in HIT Standardization



## URL:

[http://www.phdsc.org/standards/pdfs/PHDSC\\_Business\\_Case\\_Public\\_Health\\_HIT-Standardization.pdf](http://www.phdsc.org/standards/pdfs/PHDSC_Business_Case_Public_Health_HIT-Standardization.pdf)



# Business Case: Public Health in HIT Standardization

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- *National HIT standardization process requires collective input from public health on **what** public health issues need to be addressed in national interoperable HIT standards.*
- *This input needs to be collaboratively developed, put through the national HIT standardization process and uniformly implemented.*
- ***Public Health’s “Organized Voice on HIT Standards”** will have to take on a character reflective of this reality.*
- *We define **Public Health’s Organized Voice on HIT Standards** as an open, transparent, participatory process of harmonizing program-specific and jurisdictional needs with national HIT interoperability standards by **working with public health stakeholders and HIT standardization entities** on various phases of HIT standardization.*



# What do we want to achieve?

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National Health IT adoption strategies have created unprecedented interest in using population-level data. Such data can be available if public health information systems successfully interoperate, *i.e.*, receive and send data between clinical information systems; and across health information systems at all levels of government.

*We propose a business strategy that*

- *Maximizes the impact of those who participate on behalf of public health in the national Health IT standardization process, and*
- *Obtains input from, informs, and educates other public health stakeholders.*

Through this collaborative public health effort, we could achieve meaningful interoperability across public health information systems as well as between public health and clinical information systems.



# How will we want to achieve?

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## *Implementing the Business Case through*

- *Developing a methodology* for Public Health Participation in HIT Standardization Efforts
- *Educating Public Health Community about Health Informatics and HIT Standards*

# Developing a methodology...

## PHDSC Business Case: HIT Standardization Phases, Products and Entities

HIT Standardization Phases	Needs & Priorities	Development & Maintenance	Selection & Harmonization	Testing/Trial Implementation	Certification	Deployment
<i>Goals</i>	<i>What should be accomplished ?</i>	<i>What are the standards?</i>	<i>What standards to use?</i>	<i>Show what can be accomplished</i>	<i>Certify standards-based products</i>	<i>Deploy standards-based products</i>
HIT Standards and Interoperability Framework Development Entities	HIT Policy Committee HIT Standards Committee <i>(Formerly AHIC)</i>	SDOs (e.g., HL7, SNOMED (IHTSDO), LOINC, ASC X12, NUBC, ISO TC215)	IHE HITSP ONC Standards & Interoperability Framework	NwHIN IHE	Certification Entities (CCHIT, Drummond Group, Inc)	<i>Proposed</i> IHE & PHDSC Deployment Workshops
Standards Documents	Use Cases (Description of the health information exchanges)	Standards	Interoperability Specifications Technical Frameworks Integration Profiles	Test Reports	Functional Profiles Certification Criteria	Deployment Reports



# ...and working on projects

HIT Standardization and PHDSC Projects						
HIT Standardization Phases	Needs & Priorities	Development & Maintenance	Selection & Harmonization	Testing / Trial Implementation	Certification	Deployment
<i>Goals</i>	<i>What should be accomplished?</i>	<i>What are the standards to use?</i>	<i>What standards to use?</i>	<i>Show what can be accomplished</i>	<i>Certify standards-based products</i>	<i>Deploy standards-based products</i>
Public Health Domains Undergoing HIT Standardization	<div style="background-color: #ccccff; padding: 5px; border: 1px solid black; display: inline-block;">HITSP Projects</div>		<div style="background-color: #ccccff; padding: 5px; border: 1px solid black; display: inline-block;">PHDSC Projects</div>			
	<u>AFIC / MU:</u> Biosurveillance Immunization ELR Public Health Reporting Newborn Screening Vital Records	Biosurveillance Immunization PH-Lab Public Health Reporting Newborn Screening Vital Records	Biosurveillance Immunization PH-Lab Public Health Reporting Newborn Screening Vital Records	PH-Lab Public Health Reporting Newborn Screening Vital Records	PH-Lab Public Health Reporting Hearing Vital Records	PH-Lab Public Health Reporting Hearing Vital Records

# Educate Public Health and Clinical Professionals about HIT Standards

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## ■ ***PHDSC Webinars:***

- Series of Webinars on Meaningful Use of Health IT for Public Health in partnership with JPHIT
- HIT Standards for Early Hearing Detection and Intervention
- Re-evaluation of HL7 EHR-S Functional Model from Public Health Perspectives
- HL7 Ambassador Presentation on Syndromic Surveillance and Meaningful Use of Health IT

## ■ ***University-based Health Informatics Training*** in partnership with Johns Hopkins University

## ■ ***Health Information Technology Standards Web-Resource***

(<http://www.phdsc.org/standards/health-information-tech-standards.asp>)



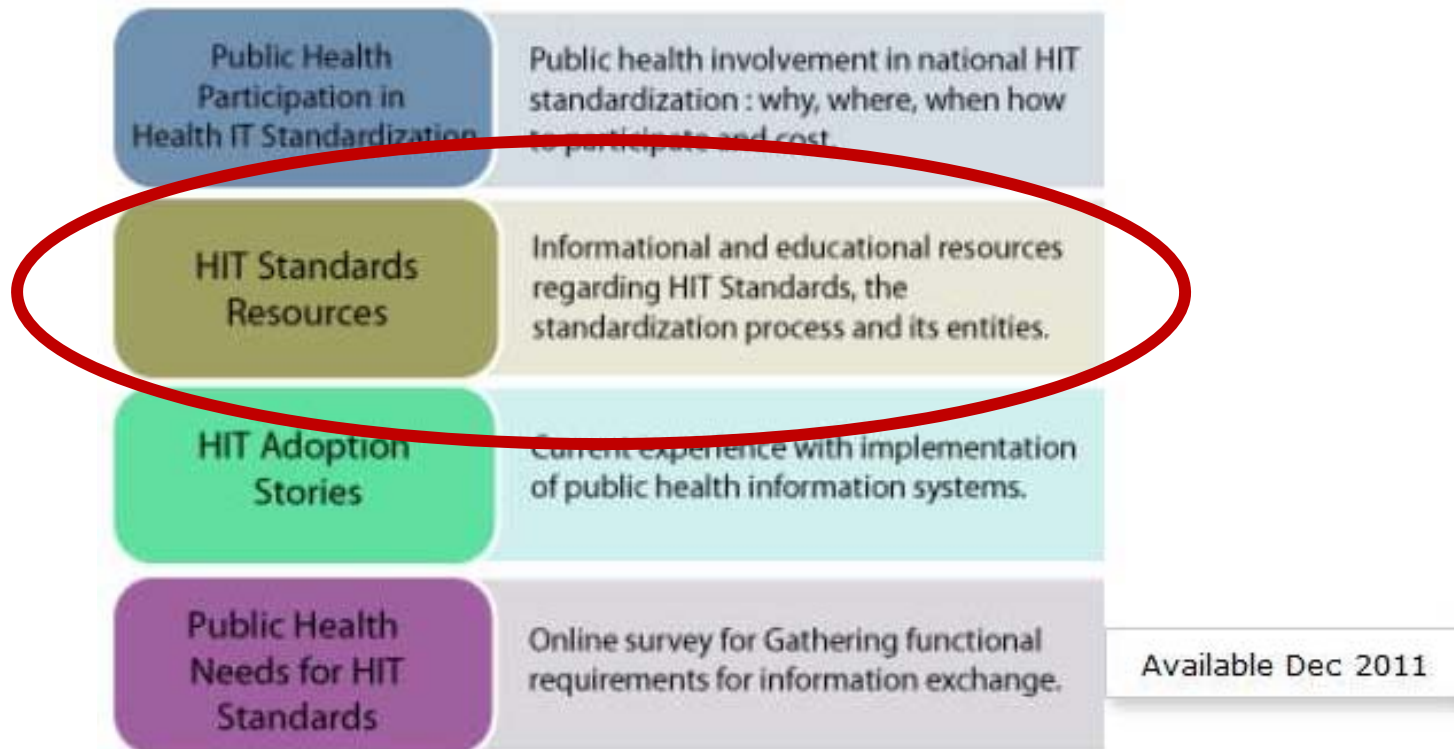
# Public Health IT Standardization Resource Center

## *Four module website:*



# Public Health IT Standardization Resource Center

## *Four module website:*





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PHDSC Payer Typology  
Sub-Committee

PHDSC Health Care  
Services Data  
Reporting Guide Sub-  
Committee

Health Information  
Technology Standards

Health Information  
Technology  
Standardization Panel  
(HITSP)

Certification  
Commission of Health  
Information  
Technology (CCHIT)

Health Information  
Technology Definitions  
Project

## Health Information Technology Standards

### Table of Contents

- [Definitions of Standardization, Standard and Standards Categories](#)
- [Health Information Technology Standardization](#)
- [Health Information Exchange Priorities](#)
- [Standards Development](#)
  - [Data Standards](#)
  - [Information Content Standards](#)
  - [Information Exchange Standards](#)
  - [Identifiers Standards](#)
  - [Privacy and Security Standards](#)
  - [Functional Standards](#)
  - [Other Standards](#)
- [Standards Harmonization](#)
- [Certification of Standards-Based Health IT Products](#)
- [Implementation of Standards-Based Specifications](#)
- [Adoption of Standards-Based Health IT Products](#)



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Public Health in Health  
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Public Health  
Participation in Health  
IT Standardization

Health Information  
Technology Standards

HIT Adoption in Public  
Health

Health Information

## Health Information Technology Standards

[HIT Standardization](#) | [Health Information Exchange Priorities](#) | [Standards Development](#) | [Harmonization](#) | [Testing](#) | [Certification](#) | [Deployment](#) | [Adoption](#)

## Definitions of Standardization, Standard and Standards Categories

[Definitions](#) | [Related Topics](#) | [Tutorials](#)

**Standardization**, as defined by the [International Organization for Standards \(ISO\)](#), is the process of agreeing on standards, which represent the common language that allows the exchange of data between disparate data systems. The goals of standardization are to achieve comparability, compatibility, and interoperability between independent systems, to ensure compatibility of data for comparative statistical purposes, and to reduce duplication of effort and redundancies.

A **Standard**, is a definition, set of rules or guidelines, format, or document that establishes uniform engineering or technical specifications, criteria, methods, processes, or practices that have been approved by a recognized standard development organization (SDO), or have been accepted by the industry as de facto standards, or de jure standards, i.e., formal legal requirements. De facto standards have become standards because a large number of companies have agreed to use them. They have not been formally approved as standards, but they are standards nonetheless.

**Standards Categories.** In February 2006, the [Health Information Technology Standards Panel \(HITSP\)](#) identified the following health information technology standards categories:

Privacy & Security Standards	
Examples of Standards Development Organizations	Domains
<a href="#">ASTM</a>	Security, Confidentiality
<a href="#">ISO</a>	Privileged Access, Pseudonymization, Audit Trail
<a href="#">IHE</a>	Patient Consent, Anonymization/Pseudonymization
<a href="#">HITSP</a>	Patient Consent, Anonymization/Pseudonymization

**[ASTM Committee E31](#) – American Standards for Testing and Materials Committee E31 on Health Informatics**

[ASTM International](#) is one of the largest voluntary standards development organizations in the world- for technical standards for materials, products, systems, and services.

[ASTM Committee E31 on Healthcare Informatics](#) develops standards related to the architecture, content, storage, **security, confidentiality**, functionality, and communication of information used within healthcare and healthcare decision making, including patient-specific information and knowledge. The Committee, with a current membership of approximately 300 members, has 3 technical subcommittees that have over 30 approved standards and additional draft standards

**[ISO](#) - International Organization for Standardization**

ISO is a network of national standards institutes from 140 countries working in partnership with international organizations, governments, industry, business, and consumer representatives.

**[ISO 215 Technical Committee on Health Informatics](#) (ISO/TC 215)** works on the standardization of health information and communications technology to allow for compatibility and interoperability between independent systems through the following Working Groups: WG 1: Data Structure, WG 2: Messaging and Communications, WG 3: Health Concept Representation, WG 4: Security, WG 5: Health Cards, WG 6: Pharmacy and Medication, WG 7: Devices, and WG 8: Business Requirements for Electronic Health Records. The ISO/TC 215 developed standards for **Privilege management** and **access control, Pseudonymisation** and **Audit trails** for electronic health records.

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PHDSC Health Care Services Data Reporting Guide Sub-Committee

Public Health in Health IT Standardization - Resource Center

Public Health Participation in Health IT Standardization

Health Information Technology Standards

## Public Health Participation in Health IT Standardization

[Main](#) | [Why](#) | [Where](#) | [What](#) | [Who](#) | [How](#) | [How Much](#)

***Public health is a critical partner of the healthcare enterprise whose infrastructure, knowledge and services are essential and irreplaceable in delivering quality care and in protecting the nation's health. -- PHDSC***

National Health IT adoption strategies have created unprecedented interest in using population-level data. Such data can be available if public health information systems successfully interoperate, i.e., receive and send data between clinical information systems; and across health information systems at all levels of government. We propose a business strategy that

- (a) maximizes the impact of those who participate on behalf of public health in the national Health IT standardization process, and
- (b) obtains input from and informs and educates, other public health stakeholders.

*PHDSC works with public health community to assure that public health has a strong, coordinated voice in Health IT standardization to improve the public health of the Nation.*

Through this joint public health effort, we could achieve meaningful interoperability across public health information systems as well as between public health and clinical information systems.

HIT Adoption in Public Health

Health Information Technology Standardization Panel (HITSP)

Certification Commission of Health Information Technology (CCHIT)

Why

Public health needs can only be communicated effectively by public health professionals.

Where

Public health needs can only be communicated effectively by public health professionals.

What

Public health needs can only be communicated effectively by public health professionals.

Who

Public health needs can only be communicated effectively by public health professionals.

How

Public health needs to speak with a strong, **coordinated voice** to Health IT standardization entities.

How Much

Participation cost has been estimated at \$39,500.



*A Coordinated Public Health Action Plan on Health IT Standards sets an open, transparent, participatory process assuring that public health has a strong, coordinated voice in the national Health IT standardization process*

Business Case

Call to Action

Learn More: [Barriers to Participation](#)

HOME

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SITE MAP

CONTACT US

Google™ Custom Search



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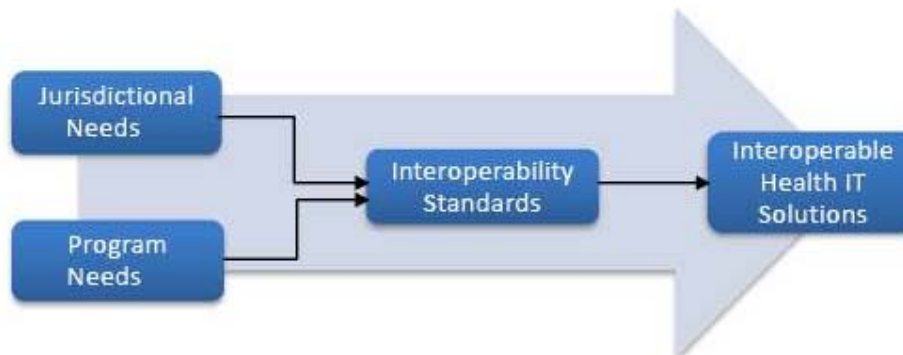
HIT Adoption in Public

## Public Health Participation in Health IT Standardization

[Main](#) | [Why](#) | [Where](#) | [What](#) | [Who](#) | [How](#) | [How Much](#)

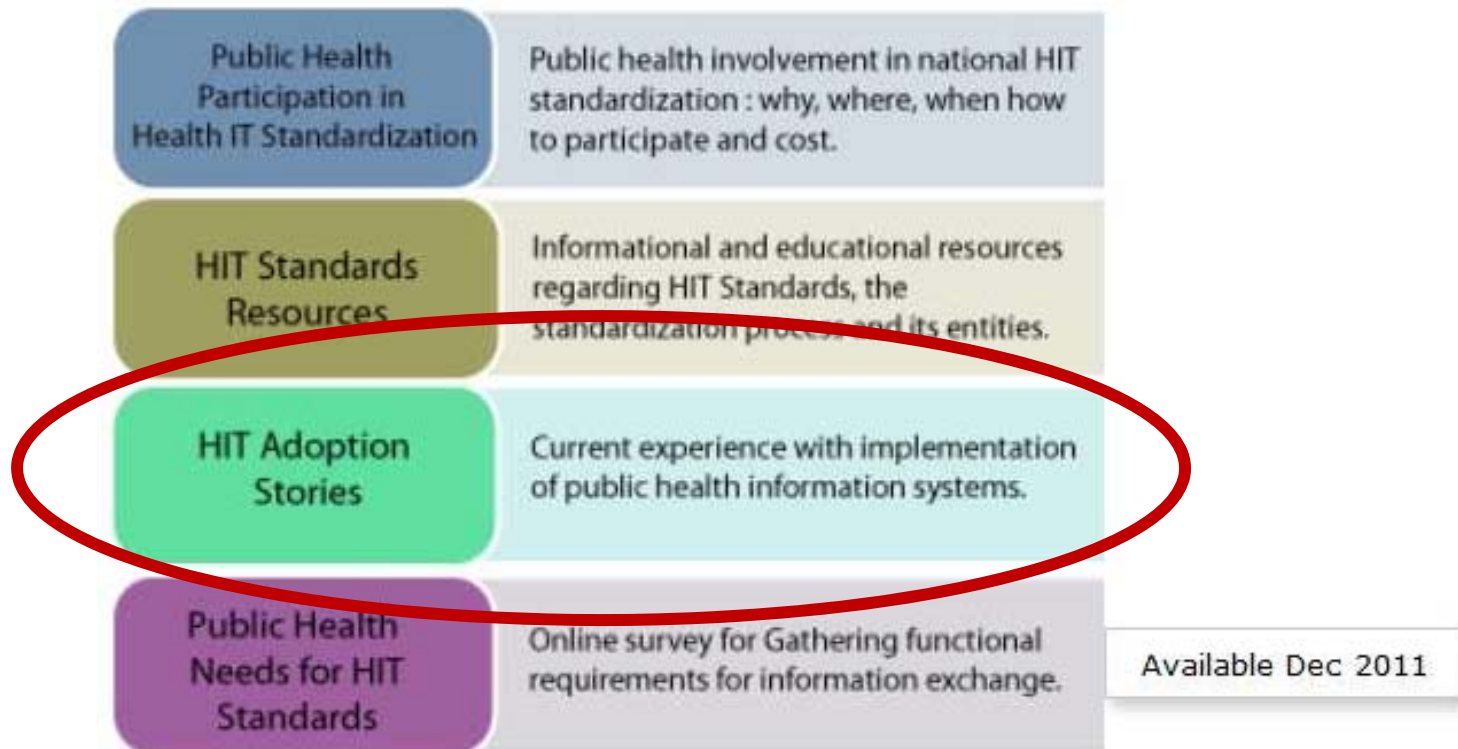
### What interests should be brought to the HIT Standardization table

By participating in Health IT Standardization, you will be able translate your jurisdiction-specific and program-specific needs into standards-based IT applications to support public health program activities.



# Public Health IT Standardization Resource Center

## *Four module website:*





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## Stories of Health IT Adoption in Public Health

[Find a Story](#) | [Advanced Search](#) | [Submit a Story](#) | [Send Site Feedback](#)

### Find a Story

Welcome to the Public Health Standards story page!

Search Terms

Go!

[Advanced Search](#)

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Sub-Committee

PHDSC Health Care  
Services Data Reporting  
Guide Sub-Committee

Public Health in HIT  
Standardization - Resource  
Center

Public Health  
Participation in Health  
IT Standardization

Health Information  
Technology Standards

HIT Adoption in Public  
Health

The "stories" database provide public health entities a resource for locating public health efforts similar to those they may be planning and understand how standards were incorporated into and benefit the effort. It provides a range of information including a

- **description** of the effort;
- **successes and challenges**;
- **Web link** and/or **publication URL** for complete information on the effort.

This stories database is a resource to assist public health to understand and navigate some of the complexities of the field of data standards, facilitate public health adoption of national standards into current and future HIT projects, and align public health applications with those of the broader health care industry.

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## Advanced Search

You may perform a search by entering keywords and/or by checking one or more of the boxes for the story attributes below. The attributes provide a consistent way to identify common characteristics in different stories. Using more than one attribute will expand your search to include stories with **any** of the attributes selected. You may use the attributes alone or in combination with keywords of your choice in the search feature above the attributes. Using the search feature along with the attributes will narrow your search to stories with your search terms that include any of the attributes selected. **It is better to be more expansive in your search to ensure all relevant stories are returned; adding too many parameters on your search may yield no results.**

Once you've entered all of the criteria you wish, submit the search request by clicking on the Go!" button next to the "Search Terms" box or at the bottom of the screen.

The [Advanced Search - Help](#) page provides more information on how to fine tune your searches.

### Search Terms

#### Stakeholders

- Clinical Settings (hospitals, ambulatory settings, community health centers, private practices, specialty clinics, nursing homes)
- Consumers (patients, patient support organization)
- Federal Public Health Agencies
- Health Plans
- Laboratories
- Local Public Health

#### Domain

- Bioterrorism
- Chronic Disease (Cancer, Diabetes, Asthma, others from CDC list)
- Communicable Disease (CDC notifiable disease list)
- Dental Health
- Emergency Response
- Environmental Health
- Epidemiology
- Global Health
- Immunization

#### Business Processes (Public Health Functions and Essential Services)

- Assess
- Assure
- Connect
- Develop
- Diagnose
- Educate
- Empower
- Enforce
- Evaluate
- Exchange

# Advanced Search

## Domain

- Bioterrorism
- Chronic Disease (Cancer, Diabetes, Asthma, others from CDC list)
- Communicable Disease (CDC notifiable disease list)
- Dental Health
- Emergency Response
- Environmental Health
- Epidemiology
- Global Health
- Immunization
- Injury
- Maternal and Child Health (WIC, Newborn screening, Hearing, Birth Defects, other from CDC and HRSA lists)
- Mental Health
- Occupational Health
- Public Health Informatics
- Vital Statistics (Birth Records and Death Records)
- Zoonotic, Vector-Borne, and Enteric

## Business Processes (Public Health Functions and Essential Services)

- Assess
- Assure
- Connect
- Develop
- Diagnose
- Educate
- Empower
- Enforce
- Evaluate
- Exchange
- Identify
- Inform
- Investigate
- Manage
- Mobilize
- Monitor
- Research

## Information Management Functions

- Analyze Data
- Collect Data
- Code Data
- Generate Reports (Reminders, Notifications, Alerts, Summaries)
- Integrate Data
- Manage Data (Store, Verify)

## Standardization Activity

- Certify HIT product
- Deploy standard
- Develop spec
- Establish compliance
- Establish conformance
- Establish functional requirement
- Identify domain need
- Identify overlap/gap
- Implement standard
- Resolve overlap/gap
- Select standard
- Test standard spec

## HIT Standardization Phases

- Needs and Priorities
- Standardized HIT Products Adoption
- Standardized HIT Products Certification
- Standards Development
- Standards Harmonization
- Standards Trial Implementation (Testing)

## HIT Standards

- Data Standards
- Functional Standards
- Identifier Standards
- Information Exchange Standards
- Information Standards
- Privacy & Security Standards

- CDC Domains 15
- Public Health Essential Function x 17
- Informatics function x 6
- Standardization phase x 6
- Standardization Activities x 12
- = a lot!



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## Stories of Health IT Adoption in Public Health

[Find a Story](#) | [Advanced Search](#) | [Submit a Story](#) | [Send Site Feedback](#)

### Search for a Story - Your Results

A total of 41 results were found with the following criteria:

Search Terms: Immunization

#### [New York City Department of Health and Mental Hygiene - Citywide Immunization Registry \(CIR\)](#)

The Citywide Immunization RegistryThe New York Citywide Immunization Registry (CIR) provides a central record-keeping system to track the immunization status of individual children and to monitor immunization levels in the population in a timely manner. Th...

<http://www.nyc.gov/html/doh/html/cir/cir-home.shtml>

#### [California Immunization Registry \(CAIR\)](#)

The goal of CAIR is to improve immunization rates for all California children through an innovative public-private partnership. CAIR is a collaborative effort involving regional immunization registry services, with the support of their local health departm...

[http://www.caipweb.org/index.php?option=com\\_content&task=view&id=28&Itemid=](http://www.caipweb.org/index.php?option=com_content&task=view&id=28&Itemid=)



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## Submit a Story

We would like to include your HIT adoption story in our examples and encourage you to take a few minutes to document and link us to your effort by using the entry form below. These submissions will be reviewed by a PHDSC team and posted to the database within one week.

We encourage you to fill out as much information as possible for other readers' benefit (including your contact information so that we can get in touch with you if we have any questions about your entry).

You may expand the text area box to see more of what has been written. Asterisk \* indicates required fields.

<b>Title*</b>	<input type="text"/>
<b>URL*</b>	<input type="text"/>
<b>Publication Reference</b>	<input type="text"/>
<b>Description*</b> <i>[max of 15,000 characters]</i>	<input type="text"/>
<b>Challenges Faced</b> <i>[max of 15,000 characters]</i>	<input type="text"/>
<b>Lessons Learned</b> <i>[max of 15,000 characters]</i>	<input type="text"/>
<b>Key Words</b>	<input type="text"/>
<b>Submitter's First Name*</b>	<input type="text"/>
<b>Submitter's Last Name*</b>	<input type="text"/>
<b>Submitter's E-mail*</b>	<input type="text"/>



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[Certification Commission of Health Information Technology \(CCHIT\)](#)

## Stories of Health IT Adoption in Public Health

[Stories Logout](#)

[Find a Story](#) | [Advanced Search](#) | [Submit a Story](#) | [Site Administration](#) | [Send Site Feedback](#)

### Module Administration

#### Review Submitted Stories (not yet approved or rejected)

- [Review Submitted Stories](#)

#### View (and if desired, modify decision for) Previously Approved/Rejected Stories

- [View Previously Approved Stories](#)
- [View Previously Rejected Stories](#)

### Quality Assurance

- [View Stories with Invalid URLs](#)

Submitter's Phone	<input type="text"/>
Submitter's Organization*	PHDSC
I agree to have my name displayed with the story as the submitter?*	<input checked="" type="radio"/> Yes (Story will be posted with your name) <input type="radio"/> No (Story will be posted without your name)
Privacy Policy*	I have read and agree to the <a href="#">Privacy Policy</a> <input checked="" type="checkbox"/>
Is URL accurate? <i>(also verified nightly by the system: if 'blank', unverified)</i>	<input type="radio"/> Yes <input type="radio"/> No   (If not valid, enter a valid URL above)
Reviewer Contacted Submitter	<input type="radio"/> Yes <input checked="" type="radio"/> No
Request Review by Another Reviewer	<input type="radio"/> Yes <input type="radio"/> No
Comments Regarding Review <i>[max of 500 characters]</i>	<input type="text"/>
Reasons not to publish (check all that apply and enter additional comments) <i>[max of 500 characters]</i>	<input type="checkbox"/> Report only <input type="checkbox"/> Inactive <input type="checkbox"/> Too old <input type="checkbox"/> Not public health <input type="checkbox"/> Requires subscription (beyond cursory registration) <input type="checkbox"/> Other <input type="checkbox"/> Not HIT Story Additional Rejection Reasons: <input type="text"/>



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## Stories of Health IT Adoption in Public Health

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### Administration - Review Stories with Invalid URLs

There are a total of 16 Stories that have invalid URLs.

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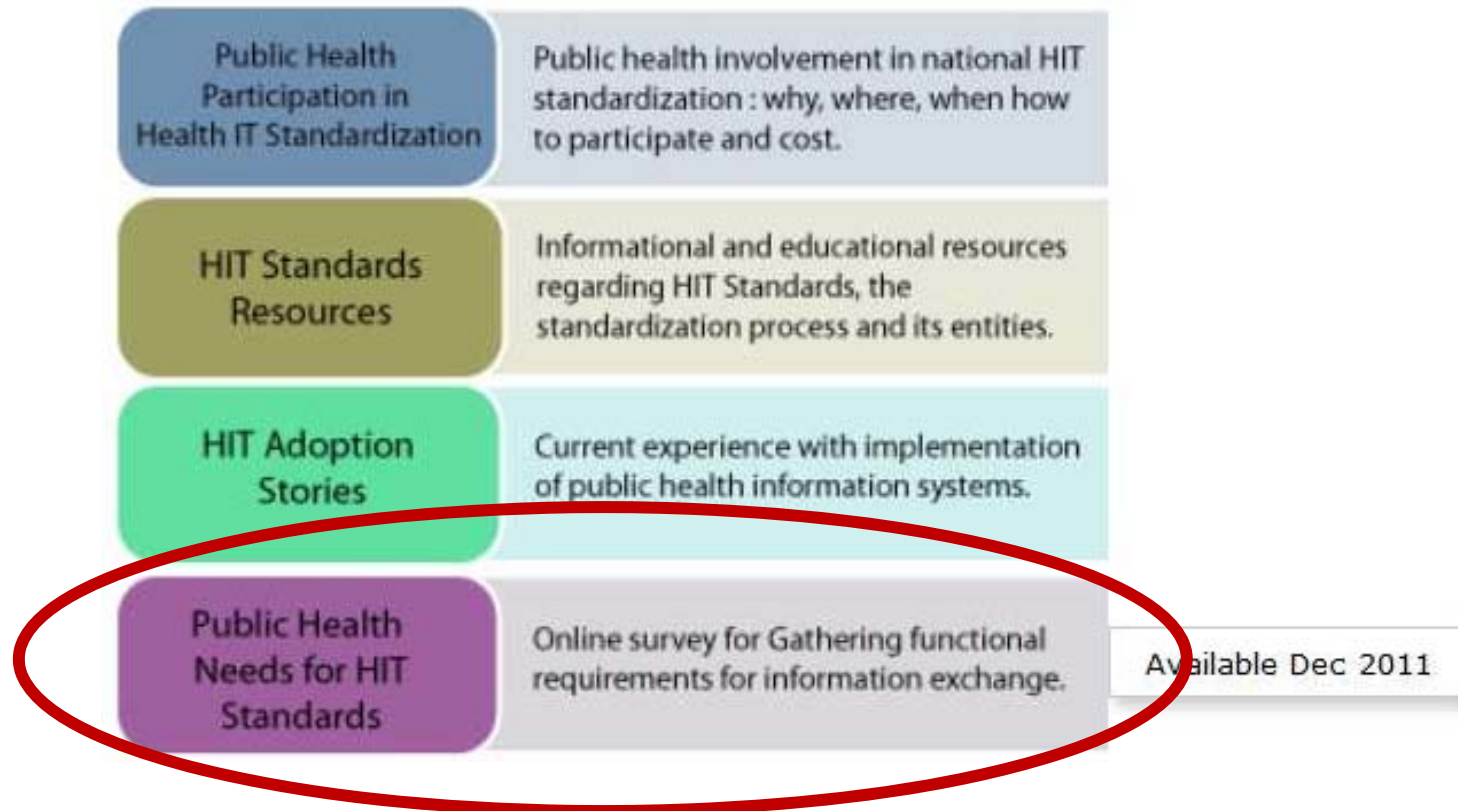
HIT Adoption in Public  
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Title	Date Submitted	Status	URL (partial)
<a href="#">Arkansas Volunteer Registry</a>	01/18/2011	Rejected	<a href="https://emcredential.emsystem.com...">https://emcredential.emsystem.com...</a>
<a href="#">American Public Health Association : Ethical Guidelines</a>	10/19/2010	Rejected	<a href="http://www.apha.org/programs/educ...">http://www.apha.org/programs/educ...</a>
<a href="#">CDC ATSDR Hazardous Substance Release and Health Effects (HazDat) Database</a>	10/19/2010	Rejected	<a href="http://permanent.access.gpo.gov/l...">http://permanent.access.gpo.gov/l...</a>
<a href="#">Children's Medication Algorithm Project</a>	10/19/2010	Rejected	<a href="http://www.dshs.state.tx.us/mhpro...">http://www.dshs.state.tx.us/mhpro...</a>
<a href="#">Connecticut Occupational</a>	10/19/2010	Rejected	<a href="http://www.ct.gov/doh/cwo/view.as">http://www.ct.gov/doh/cwo/view.as</a>

# Public Health IT Standardization Resource Center

## *Four module website:*





# Summary and Conclusions

- Public health needs to “find its voice”
- We need to *engage and education* public health on HIT standardization issues
- We need to encourage public health to *participate and show them how*
- We need *your* stories!