

Electronic Health Information Exchange In The Long-Term & Post-Acute Setting



HITECH:

Health Information Technology for
Economic and Clinical Health Act



What is HITECH?

- Enacted as part of the American Recovery and Reinvestment Act of 2009
- Expansive changes to HIPAA aimed at encouraging the sharing of electronic health information
- Provides funding assistance and incentives to encourage implementation of electronic health records (EHRs)



What is Health Information Exchange?

Improved Collaboration:

- Allows transparency for treatment, care coordination, quality assessment and improvement activities, such as case management, outcome evaluations, development of clinical guidelines.



Top-Ten Things You Should Know About Health Information Exchange

10. Critical mass of health care organizations participating is key for consumers/patients and their families to manage their health and information with their providers.
9. Stakeholders (need to) expand beyond traditional healthcare providers of Doctors & Hospitals – to include Labs... Home Care... and LTPAC.
8. There is value and ROI in exchanging health information.
7. Core function is around the care plan and clinical workflow.
6. Participation involves EMR use, interoperability standards, privacy and security, and end-user engagement.



Top-Ten Things You Should Know About Health Information Exchange

5. It's not if, but when, organizations need to participate in HIE. Cannot meet Meaningful Use criteria by 2015, without it.
4. HIE, Meaningful Use, Regional Extension Centers and Workforce Development are highly interdependent.
3. Secure information exchange needs to occur across institutional and business boundaries.
2. Focus is on health outcomes, not technology.



Top-Ten Things You Should Know About Health Information Exchange

1. It's all about the patient!

"By focusing on meaningful use....better healthcare does not come solely from the adoption of technology itself, but through the exchange and use of health information to best inform clinical decisions at the point of care"



Making the Case for Health Information Exchange in the LTPAC Setting

Long-Term and Post-Acute Care providers are faced with enormous challenges when coordinating care for patients transitioning to and from multiple and diverse care settings.



Making the Case for Health Information Exchange in the LTPAC Setting

80% of serious medical errors involve miscommunication between caregivers during the transfer of patients...

Joint Commission Center
for Transforming Healthcare.



Making the Case for Health Information Exchange in the LTPAC Setting

*Nearly 20% of Medicare patients are
hospitalized – again – within one month
of going home...*

Centers for Medicare & Medicaid Services



Making the Case for Health Information Exchange in the LTPAC Setting

- ◆ Without the ability to participate in an HIE, LTPAC providers often admit patients with incomplete information about their medical status.
- ◆ Over a third of all Medicare patients discharged from acute hospitals receive LTPAC services, with almost 80 percent of those patients receiving skilled nursing or home care.
- ◆ Not only are resources strained as staff members spend time calling to request faxed copies of documentation, but the overall patient experience is diminished.



History & Background

- ◆ February 2009: ARRA HITECH Act
\$546 million in competitive state grants for Health Information Exchanges through ONC
- ◆ August 2009: North / Central NJ CIO group meets to discuss the possibility of building an information sharing network
- ◆ September 2009: NJ State requests HIE proposals Northern & Central New Jersey Health Information Exchange Collaborative submits proposal as part of overall state plan
- ◆ October 2009: NJ State HIE plan submitted to ONC



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History & Background

- ◆ January 2010: ONC awards State of NJ \$11.4 million
- ◆ July 2010: NJ State HIT Coordinator named Colleen Woods
- ◆ August 2010: NJ HIN plan and budget revised
- ◆ January 2011: NJ HIN State plan and budget approved by ONC
- ◆ June 2011: ONC funds made available by NJ State to regional HIEs



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New Jersey HIO Landscape

Jersey Health Connect

Atlantic Health
 Overlook Medical Center
 Morristown Medical Center
 Newton Medical Center
 ContraState HealthCare System
 Children's Specialized Hospital
 Chilton Memorial Hospital
 CJHIEP (physician group)
 Deborah Heart and Lung Center
 Englewood Hospital and Medical Center
 Francis E. Parker Memorial Home
 Hackensack University Medical Center
 Holy Name Medical Center
 Hunterdon Healthcare
 JFK Health System
 Meridian Health System
 Palisades Medical Center
 Robert Wood Johnson University Health System
 RWJUH at New Brunswick
 RWJUH at Hamilton
 RWJUH at Rahway
 Children's Specialized Hospital
 Barnabas Health
 St. Barnabas Medical Center
 Clara Maass Medical Center
 Raritan Bay Medical Center
 Saint Clare's Health System
 Saint Peter's Healthcare System
 Somerset Medical Center
 Trinitas Regional Medical Center
 Summit Medical Group (physician group)
 Valley Medical Center
 VISTA/Optimus Health System (IPA)
 VNA of Central NJ

Trenton Coalition

Capital Health
 St. Francis

Camden Coalition

Lourdes Health System
 Cooper University Hospital
 Virtua Camden



Health-e-cITI-NJ/Highlander

North Beth Israel Medical Center
 East Orange General Hospital
 St. Michael's Medical Center
 UMDNJ
 St. Joseph's Healthcare System
 Meadowlands
 Jersey City Medical Center

Virtua

Children's Hospital of Philadelphia

NJ Shine

South Jersey Health System
 Shore Memorial Hospital
 Cape Regional Medical Center
 SeaShore Gardens (Nursing Home)

The Jersey Health Connect Model: A Shared Vision for New Jersey

Electronic access to aggregated health information available whenever and wherever it is needed at the point of care.

- Improve care coordination, access, outcomes and efficiencies through the use of technologies facilitating to real-time clinical exchange
- Comply with national standards related to privacy and security considerations
- Allow organizations to maintain individual technology strategies
- Provide consumers a consolidated view of their health information to encourage active and informed participation



JHC Members

29 of the State's Leading Acute Care Providers

Saint Clare's Health System

ENGLEWOOD
HOSPITAL AND MEDICAL CENTER
AN AFFILIATE OF PRINCETON-UMMC HEALTHCARE SYSTEM

Palisades Medical Center
NewYork-Presbyterian Healthcare System

HackensackUMC
Where medicine meets innovation

Holy Name Medical Center

Atlantic Health System

CHILTON HOSPITAL

TRINITAS
Regional Medical Center

Raritan Bay Medical Center
Advancing care every day

SomerSet
MEDICAL CENTER

BARNABAS HEALTH

Children's Specialized Hospital

JFK HEALTH SYSTEM

SAINT PETER'S HEALTHCARE SYSTEM
Treating you better...for life.

RWJ ROBERT WOOD JOHNSON
UNIVERSITY HOSPITAL

Hunterdon Healthcare

MERIDIAN HEALTH

Valley Health System

DEBORAH
Heart and Lung Center

CentraState Healthcare System*
Freehold, NJ

JHC Members

A Growing List of Major Non-Acute Care Providers

SUMMIT MEDICAL GROUP

AristaCare
HEALTH SERVICES
COMMITMENT • EFFICIENCY • INNOVATION

PARKER

VISTA
HEALTH SYSTEM LLC

CareOne
A Senior Care Company®
Trust In Our Care

Bridgeway
Senior Healthcare

LabCorp
Laboratory Corporation of America

Brother Bonaventure

CVS pharmacy

WINDSOR

Matheny
MEDICAL AND EDUCATIONAL CENTER

Optimus Healthcare Partners

vna Health Group
Visiting Nurse Association Health & Hospice
The future of healthcare. **Delivered.**

The State's Largest Health Information Exchange

Expanded Coverage...

Northern, Central &
Southern New Jersey

Growing List of Providers...

- Twenty-Nine Health Systems & Hospitals
- Two Large Multi-Specialty Physician Group Practices
- Two Long-Term Care Facilities
- State-Wide Home Care Agency Serving Over 6 million Patients



Jersey Health Connect... *By The Numbers*



751	Connected Practices
1,623	Connected Physicians
23,185	Patient Queries
130,000	Connected Patient
4,200,000	Patient Records (6 Million JHC Service Area)
1,800,000	Results & Messages
115	EMR Endpoint Connections

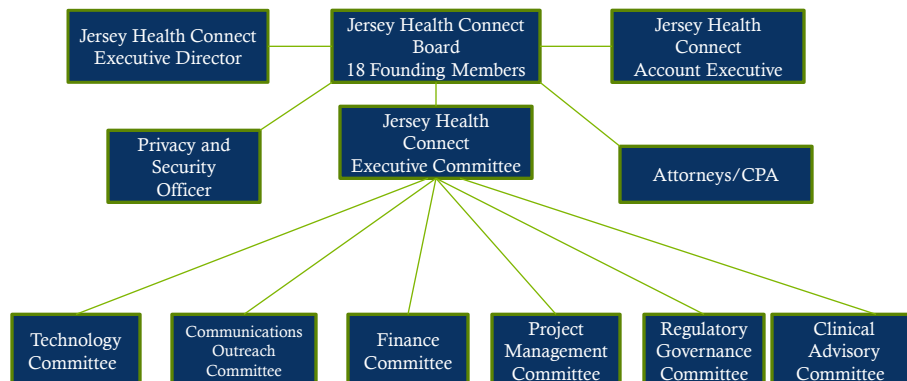


4th Largest Directed Transactions In The Country

State HIE Grantee	Monthly Transactions
Indiana	14,532,368
Colorado	5,011,816
New York	3,322,812
JERSEY HEALTH CONNECT	2,295,636
Minnesota	1,680,124
Vermont	889,700
Delaware	827,483
Washington	138,422
Michigan	98,976
Maryland	48,655
Ohio	35,359
Rhode Island	29,627
California	28,429
Alaska	3,701
Utah	2,482



JHC Governance Structure



JHC Vision & Mission

VISION:

- ◆ *Jersey Health Connect will be the leading Health Information Organization providing Health Information Exchange services to all members, healthcare providers, and patients within the regions we serve.*

MISSION:

- ◆ *We aggregate and deliver the right health information to the right provider and the right patient through the right technology to improve healthcare outcomes and reduce overall costs.*



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JHC Values

VALUES (HIE-TO-U):

- ◆ HHealth - We are passionate about improving health
- ◆ Integrity - We deliver protected information at the point of care
- ◆ Empowerment - We empower patients to manage their healthcare
- ◆ Teamwork - We foster collaborative participation
- ◆ Outcomes - We provide data to enable positive outcomes
- ◆ Understanding - We educate the community on the benefits of data sharing



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Types of JHC HIE Participants

- ◆ Founding Member
- ◆ Non-founding Member
- ◆ Data Supplier
 - ◆ LabCorp
- ◆ Data viewer
 - ◆ CareOne
- ◆ Data Exchanger
 - ◆ Member Organizations
- ◆ End user - Provider
- ◆ End user - Patient



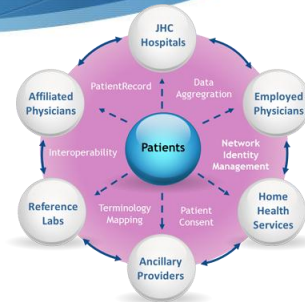
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JHC Strategic Plan

◆ Strategies 2014 – 2016 (C.S.I.²):

◆ Connect and Share

- ◆ Patients and Family Care Givers
- ◆ Direct Healthcare Providers
 - ◆ Hospitals, Physicians, Long Term Care, Home Health, Rehabilitation, FQHCs
- ◆ Ancillary providers
 - ◆ Labs, Diagnostic Imaging Centers, Pharmacies
- ◆ NJ HealthNet
- ◆ Regional and National HIEs
- ◆ Payers, Regulatory bodies

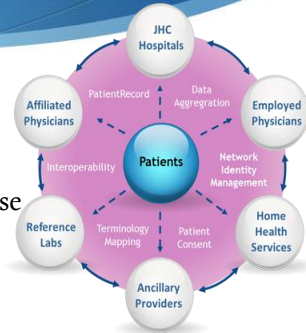


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JHC Strategic Plan

◆ Strategies 2014 – 2016 (C.S.I.²):

- ◆ Improve process of healthcare for the Individual Population
 - ◆ Engage Patients and Physicians in the use of the information and on line tools
 - ◆ Expand the knowledge available at the level of the individual encounter
 - ◆ Reduce duplicative information provision and reduce duplicative testing

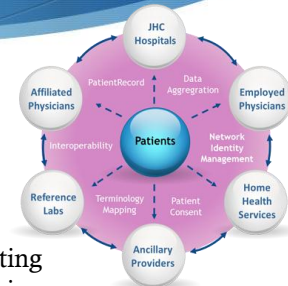


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JHC Strategic Plan

◆ Strategies 2014 – 2016 (C.S.I.²):

- ◆ Improve process of healthcare for the Individual Population
 - ◆ Provide standard Accountable Care Organization offerings
 - ◆ Define enhanced functionality and reporting to compliment Care Coordination strategies
 - ◆ Embed functionality and reporting into base system offering
 - ◆ Provide mechanism to support custom ACO requests



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- ◆ Collaborative model (working together) to improve patient care
- ◆ Opportunity for physician alignment via JHC offering
- ◆ Opportunity for patient engagement with Personal Health Record
- ◆ Ability to share and retrieve patient care data across healthcare systems and electronic records platforms



Benefits of JHC Membership

- ◆ Negotiate Better Technology Pricing
- ◆ Meet Meaningful Use Requirements:
 - ◆ Data exchange
(of key clinical information)
 - ◆ Patient Engagement
- ◆ Reduced Interoperability Costs
(for EMR integration - pre-negotiated)



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Expanded Connection with Multiple EMR Vendors

- ◆ AllScripts
- ◆ Greenway
- ◆ Misys
- ◆ NextGen
- ◆ eCW
- ◆ Aprima
- ◆ eMD's
- ◆ OTTR
- ◆ Meridian
- ◆ Varian
- ◆ Practice Partner



JERSEY Health Connect
Connecting your healthcare needs

- ◆ EHI (MDNet)
- ◆ MTBC
- ◆ GE Centricity
- ◆ HAC
- ◆ MEDAZ
- ◆ ADS
- ◆ MTBC
- ◆ MDClick
- ◆ Vitera
- ◆ MedEnt
- ◆ CureMD

Data & Services

- ◆ Centralized clinical data repository
- ◆ Core Offering
 - ◆ Data from Hospitals - Lab Results/Radiology Results/Transcribed Documents/Consolidated-Clinical Document Architecture (C-CDA) documents
 - ◆ LabCorp lab results
 - ◆ CVS Immunizations (NJ pilot)
 - ◆ Personal Health Record
 - ◆ Secure Messaging
 - ◆ ED Notification to primary care
- ◆ Integration with ambulatory EMRs
- ◆ Integration with ED systems
- ◆ HIE level patient merging

JERSEY Health Connect
Connecting your healthcare needs

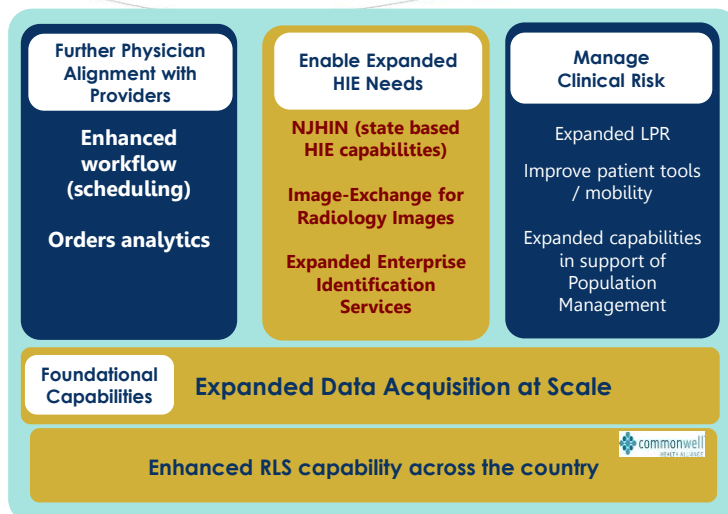
Data & Services

- ◆ Emergency Department Connectivity
 - ◆ Single Sign On/Patient Context
 - ◆ ForeRun/EmergiSoft, Picis/OptumInsight (test), Cerner
- ◆ Clinical Systems
 - ◆ Single Sign On/Patient Context
 - ◆ Allscripts, Horizon Physician Portal, Mobile MD
- ◆ EMR integration
 - ◆ Over 110 endpoint connections
 - ◆ Standardization effort with “top 11” EMR vendors



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Strategic Considerations



*Includes improved workflow and data management

Connecting & Search the Network

Morristown Medical Center
 Overlook Medical Center
 Newton Medical Center
 Chilton Medical Center
 Goryeb Children's Hospital

Atlantic Health System

[Add a New Patient](#) | [Search Your Entire Network](#)

Search Your Entire Network

Please search by **Patient Name (First and Last)** or **Patient Identifier**. Your search network consists of Atlantic Health HIE, Atlantic Health System and Jersey Health Connect (Atlantic Health System, Barnabas Health, Children's Specialized Hospital, Chilton Hospital, Englewood Hospital and Medical Center, Hackensack University Medical Center, Holy Name Medical Center, Humberston Healthcare System, JFK Enterprise HIE, Palisades Medical Center, Robert Wood Johnson University Hospital - New Brunswick, Robert Wood Johnson University Hospital - Rahway, Robert Wood Johnson University Hospital-Hamilton, Saint Clare's Health System, Saint Peter's University Hospital, Somerset Medical Center, Toms Regional Medical Center and Visiting Nurses Association).

Patient Information

First Name Patient Identifier
 Middle Name DOB
 Last Name Gender ☐ Male ☐ Female

Brought to you by

Connecting & Search the Network

Patient Information

First Name Patient Identifier
 Middle Name DOB
 Last Name Gender ☐ Male ☐ Female

Name	DOB	Gender	Patient ID's	Affiliation	Entity	Status
John Doe	Details	9/12/1968	Male	Atlantic Health HIE	Edward Ratush MD	Offline
John Doe	Details	1/1/1900	Male	Atlantic Health HIE	Roselle Park Primary Stuart Left MD/Toru Endo MD	Offline
John Doe	Details	1/1/2001	Male	Atlantic Health HIE	Bryan Fennelly, MD	Online
JOHN DOE	Details	1/1/1970	Male	Saint Peter's HIE	Central Jersey Internal Medicine	Offline
John DOE	Details	2/3/1940	Male	Atlantic Health	Bedminster	Offline

Provide Additional Information

MRN
 Patient ID
 Patient ID
 Provider:

☒ By checking this box, I certify that I have obtained all consents or authorizations necessary to create this Patient Relationship and that I am authorized to view this Patient Record.

Connecting & Searching

Gender: Male Work: (718) 339-4857 Health Plan: Edit

Date of Birth: Jan 5, 1989 Mobile: (917) 888-9999 Health Plan Id:

Chart Reports Administrative Actions: - Select -

Summary Messages Problems & Proc. Medications Allergies Orders & Results Vital Signs Immunizations Family & Social Hx Files

Messages [New](#)

Subject	Date
RE: Schedule Appointment	Mar 24, 2014
Schedule Appointment	Mar 24, 2014
Appointment Reminder	Mar 23, 2014
Appointment Reminder	Mar 23, 2014
Appointment Reminder	Mar 23, 2014

Active Medications [New eScript](#) [New Med](#)

Drug	Medication and Insurance Coverage Details	Action
Actonel	Oral Tablet 5 MG QTY: 30 Tablet(s) Aug 17, 2011	Edit
Albuterol Sulfate	Inhalation Nebulized Soln (2.5 MG/3ML)	Edit

Results [New](#)

Type	Date
CT Scan	
Kidney Function Tests	

Renewals

No waiting renewals

Notifications

Name: Mr. Jacob Smith Online Home: (718) 666-6666 Patient ID: Email: [tkij@gmail.com](#)

Gender: Male Work: (718) 339-4857 Health Plan: Edit

Date of Birth: Jan 5, 1989 Mobile: (917) 888-9999 Health Plan Id:

Chart Reports Administrative Actions: - Select -

Summary Messages Problems & Proc. Medications Allergies Orders & Results Vital Signs Immunizations Family & Social Hx Files

Results [View in Results Manager](#) [New](#)

Type	Date	Source
CT Scan		Patient
Kidney Function Tests		Patient
LEAD PROFILE	Mar 01, 2013	

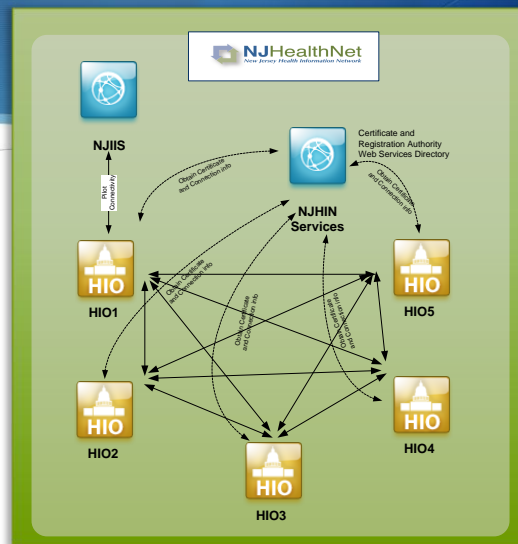


- ◆ Implement secure foundation for connectivity
 - ◆ Public key infrastructure with certificate and registration authorities
- ◆ Implementation of web services directory
- ◆ Query/Display patient data
 - ◆ Use Case = CCD/A
- ◆ NJIIS: Node on network, test data exchange
 - ◆ Exploratory pilot

Phase 1:

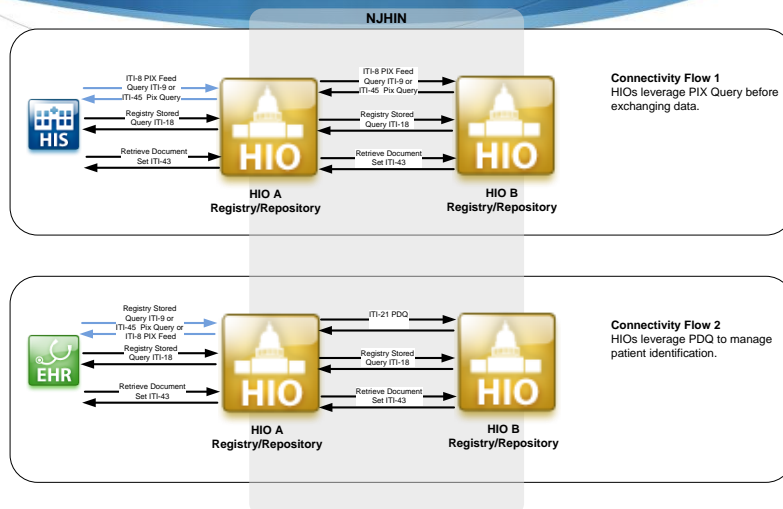
Overall view of HIOs connecting with each other:

- ◆ Jersey Health Connect
- ◆ Virtua
- ◆ Health-e-Citi/
Highlander
- ◆ NJShine
- ◆ Camden

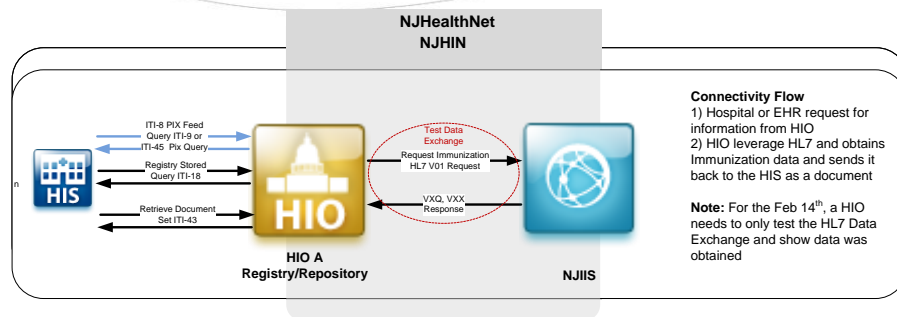


Workflow Options

Determine which workflow works for the HIOs



Initial Approach Connection to NJIIS



NJHealthNet Lessons Learned

Through our first round of testing, we have learned more about HIE capabilities and better models for pt. identity:

- Some platforms have limitations on number of certificates they can or will support.
- Some HIEs are still developing CCD export capabilities.
- Different HIEs support different IHE protocols.
- NJIIS testing has let to better understanding of data sharing models for state registries.
- Moving toward a centralized PIX manager for patient identity strategy.
- Data sharing across the stat is an obtainable goal!



Electronic Health Information Exchange
in the Long-Term & Post-Acute Setting

Questions & Answers

