Improving Quality, Safety, and Efficiency Through Health Information Exchange.

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Since 02/17/09...

ARRA & HITECH

EHR – Meaningful Use

Certified EHR – Electronic exchange of health information

http://www.cdc.gov/ehrmeaningfuluse/introduction.html
1. Improve quality, safety, efficiency & reduce health disparities
2. Engage patients/families
3. Improve care coordination
4. Improve population & public health
5. Ensure adequate privacy and security protection for personal health information

http://www.cdc.gov/ehrmeaningfuluse/introduction.html
Improving Quality, Safety, Efficiency; Reducing Health Disparities
Engage Patients and Families in their Health
Improve Care Coordination

Your Info Goes Where You Go

- Height
- Medication History
- Age
- Conditions
- Emergency Contact
- Gender
- Weight
- Diagnosis
- Allergies
- Lab Results
- X-Rays
Improve Population and Public Health
Ensure Adequate Privacy and Security Protections for Personal Health Information
The building blocks to improving quality and reducing costs.
What are we talking about when we talk about Health Information Exchange?

Organizations and the patient are connected through health information technology.
Proposed Stage 2

Electronic Exchange of Summary of Care Documents

The EP, eligible hospital or CAH that transitions or refers their patient to another setting of care or provider of care electronically transmits a summary of care record using Certified EHR Technology to a recipient with no organizational affiliation and using a different Certified EHR Technology vendor than the sender for more than 10 percent of transitions of care and referrals.

http://www.cms.gov/EHRIncentivePrograms/
Proposed Stage 2
Ongoing Submission to Public Health Agencies

Successful ongoing submission of electronic immunization data from Certified EHR Technology to an immunization registry or immunization information system for the entire EHR reporting period.

Successful ongoing submission of electronic reportable laboratory results from Certified EHR Technology to public health agencies for the entire EHR reporting period as authorized.

Successful ongoing submission of electronic syndromic surveillance data from Certified EHR Technology to a public health agency for the entire EHR reporting period.

http://www.cms.gov/EHRIncentivePrograms/
Imaging

Imaging results and information are accessible through Certified EHR Technology

More than 40 percent of all scans and tests whose result is an image ordered by the EP or by an authorized provider of the eligible hospital or CAH for patients admitted to its inpatient or emergency department (POS 21 and 23) during the EHR reporting period are accessible through Certified EHR Technology

http://www.cms.gov/EHRIncentivePrograms/
Proposed Stage 2

Registry Reporting

Successful ongoing submission of cancer case information from Certified EHR Technology to a cancer registry for the entire EHR reporting period

Successful ongoing submission of specific case information from Certified EHR Technology to a specialized registry for the entire EHR reporting period

http://www.cms.gov/EHRIincentivePrograms/
The Health Information Exchange Landscape

The Nationwide Health Information Network

Mobilizing Health Information Nationwide

Health Bank or PHR Support Organization

State and Local Gov

Community Health Centers

Integrated Delivery System

Pharmacies

Community #1

Community #2

The Internet

Standards, Specifications and Agreements for Secure Connections
How Will HIE Impact Patients?

- Secure P2P Messaging compliant with Direct Project
- Regional distribution of care plans
- Regional access to EKGs
- Regional distribution of advanced directives and other documents
- Integration with patient controlled Patient Health Record
- Regional access to images
- Reporting to disease registries
- Regional referral management
- Regional case management/utilization management program support
- Electronic Lab Reporting interface to public health repositories
- SureScripts interfaces
- Medicaid Medication Claim Data

<table>
<thead>
<tr>
<th>Clinical Messaging</th>
<th>Hospitals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medication Reconciliation</td>
<td>Physicians</td>
</tr>
<tr>
<td>Shared EMR</td>
<td>Labs</td>
</tr>
<tr>
<td>Credentialing</td>
<td>Public Health</td>
</tr>
<tr>
<td>Eligibility Checking</td>
<td>Payers</td>
</tr>
<tr>
<td>Results Delivery</td>
<td>Researchers</td>
</tr>
<tr>
<td>Secure Document Transfer</td>
<td>Patients</td>
</tr>
<tr>
<td>Clinical Decision Support</td>
<td></td>
</tr>
<tr>
<td>Credentialing</td>
<td></td>
</tr>
<tr>
<td>Eligibility Checking</td>
<td></td>
</tr>
<tr>
<td>Clinical Messaging</td>
<td></td>
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<tr>
<td>Orders</td>
<td></td>
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<tr>
<td>Needs Assessment</td>
<td></td>
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<td>Surveillance</td>
<td></td>
</tr>
<tr>
<td>Reportable Conditions</td>
<td></td>
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<tr>
<td>Results Delivery</td>
<td></td>
</tr>
<tr>
<td>Clinical Quality Measurement</td>
<td></td>
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<td>Claims Adjudication</td>
<td></td>
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<tr>
<td>Secure document transfer</td>
<td></td>
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<td>De-identified, longitudinal clinical data</td>
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<td>Personal Health Records</td>
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The Health Information Exchange Landscape

• Enterprise HIE
  ➢ IDNs, practices and closely affiliated hospitals
  ➢ Clinical Integration services

• Regional HIE
  ➢ RHIOs (sometimes competing stakeholders)
  ➢ Clinical integration services, some quality initiatives

• State or Countrywide
  ➢ Health system to health system, clinical integration with smaller practice
  ➢ Quality, public health initiative driven
255 Reporting HIE Initiatives across the country

Many IDNs use HIE as part of their strategy to capture greater market share.

Basic Services Include:

- HIPPA Compliant Secure Messaging
- Advanced Analytics
- Quality Reporting
- Other value added services
The Health Information Exchange and the Emerging Vision

The Future Statewide HIE suggests:

- Mobile healthcare information will create new forms of healthcare delivery
- It will make new transactional models possible
- Will create a collaborative platform between applications, data, e-commerce, and emerging cloud computing technologies
- Will deliver higher levels of seamless quality care
- Will provide opportunities for many in the supply chain to gain and add value
- It will give the consumer greater access and control of their healthcare
HIE Development in Illinois includes the following initiatives:

Central Illinois Health Information Exchange (CIHIE)

Serves 20 counties in central Illinois with a population of approximately 1.3M including Peoria, Bloomington, Champaign, and Decatur. The area contains 27 hospitals, 20 health departments, 2,800+ Physicians, 280+ Pharmacies and other healthcare related services. Their Technology Partner is ICA, Informatics Corporation of America. Which features all necessary EHR interfaces to comply with Meaningful Use Stage and if founded on their CareAlign platform which features AllCharts software.
The Health Information Exchange and the Emerging Vision

HIE Development in Illinois includes the following initiatives:

Lincoln Land Health Information Exchange (LLHIE) and Illinois Health Exchange Partners (IHEP)

LLHIE serves Springfield, Quincy and surrounding areas. IHEP serves Metro east to Effingham and the surrounding areas. The goal is to create a regional HIE system for the 31 southernmost counties of Illinois. Their Technology Partner is Medicity Novo Grid.
The Health Information Exchange and the Emerging Vision

HIE Development in Illinois includes the following initiatives:

Metro Chicago Health Information Exchange (MCHIE)

Serving: The Chicago Metro Area: 9.4 Million people 93 Hospitals  
Technology Platform: Microsoft Amalga and Health Unity applications
The Health Information Exchange and the Emerging Vision

HIE Development in Illinois includes the following initiatives:

Illinois Critical Access Hospital Network (ICHAN)

Health Information Exchange of Southern Illinois (HIESI)

Northern Illinois Health Information Exchange (NIHIE)
ILHIE Direct is a secure messaging solution available to licensed Illinois health care providers at no cost through 2012.

- Allows providers to send patient information via the internet in a secure and encrypted format to other providers with an ILHIE Direct address.

- Can exchange information such as patient notes, Continuity of Care Documents, referrals, and summary of care records, etc.

- Will lead to more efficient and complete coordination of care and improved patient outcomes.
The advantages of using ILHIE Direct instead of regular email to exchange messages between providers include:

- **ILHIE Direct will satisfy the clinical exchange requirement of Stage 1 Meaningful Use** (Core Measure 14 for EPs/Core Measure 13 for EHs)
- **ILHIE Direct is secure and encrypted**, and regular email is not.
- **ILHIE Direct allows you to send and receive messages up to 125 megabytes in size**, and regular email typically allows messages no larger than 10 megabytes.
How Do You Use ILHIE Direct?

- ILHIE Direct functions like standard email, but messages are secure and can only be accessed by the intended recipient.
- An Electronic Health Records system (EHR) is **NOT** required to use ILHIE Direct. Only requirements are:
  1. An internet connection
  2. A recent version of any standard web browser (i.e. Internet Explorer, Firefox, Chrome)

- Register for ILHIE Direct at [http://ilhiedirect.net](http://ilhiedirect.net)
- Log in to ILHIE Direct portal at [https://ilhiedirect.surescripts.net](https://ilhiedirect.surescripts.net)
Online Resources for additional information

- Illinois Health Information Exchange  ILHIE
  http://www2.illinois.gov/gov/HIE/Pages/default.aspx
- eHealth Initiative
  http://www.ehealthinitiative.org/about-us.html
- National eHealth Collaborative
  http://www.nationalehealth.org/
- Nationwide Health Information Network
  http://www.hhs.gov/healthit/healthnetwork/background/
- The Direct Project
  http://directproject.org/content.php?key=overview
- CONNECT
  http://www.connectopensource.org/
  http://www.cdc.gov/ehrmeaningfuluse/introduction.html