

ILHIE Core Services Overview

Core services and the path to the future of the ILHIE



Hosts of this Webinar

- Cory Verblen, Communications Manager, Illinois Office of Health Information Technology
- Laura Zaremba, Director, Illinois Office of Health Information Technology and Acting Executive Director, Illinois Health Information Exchange Authority
- Ivan Handler, Chief Technology Officer, Illinois Office of Health Information Technology



Agenda

- Description of Core Services
- Medical Record Inquiry Example Scenario
 - What a clinician will be able to access
 - How each of the Core Services participates in the acquisition of the required information
- Additional Inquiry Example Scenarios
- Service infrastructure examples
- Challenges to Implementation



Goals of the Illinois Health Information Exchange

- Improved health outcomes
- Better care coordination among providers
- Reduced medical errors
- Reduced health disparities
- Controlled health care costs



Core Services

- Record Locator Service
- Master Patient Index
- Provider Directory
- Payer Directory
- Public Health Entity Directory
- ONC Direct via provider portal
- Privacy, security & consent
 - Used by all services
 - Can be configured and used by any ILHIE member



Record Locator Service

- Finds patient's electronic records
 - In any ILHIE connected system
 - Subject to privacy and consent restraints
- Mechanism for viewing patient records
 - Consolidated into a separate viewing application
 - Integrated directly into the requester's EMR
 - Very few EMRs are capable of this at present.
 - Expect demand to change this as HIEs become ubiquitous



Master Patient Index

- Unique identification of patients
 - Based on a variety of demographic attributes
 - Use of a unique (in the state) identifier
- Cross references to “local” identifiers
 - Different agency systems
 - Different private systems (payers, hospitals, clinics)
- Maintains up to date demographic information
- Maintenance coordination between information owners



Provider Directory

- Information on all IL healthcare providers
 - National Provider Identifier
 - Licensing and Registration Information
 - Practice locations and service categories
 - Direct address(es)
 - ILHIE registration data
- Cross references to
 - Payer identifiers
 - Practice identifiers (hospitals, clinics, etc.)



Payer Directory

- Information on All Payers that operate in the State
 - Medicaid
 - Medicare
 - All Private Insurers
- Cross Reference to patients for whom payer has made payments
- Cross Reference to providers to whom payer has made payments on behalf of patients



Public Health Entity Directory

- Information on Public Health Departments
 - (System) Addressing for participation in ILHIE
 - Connected to ILHIE to facilitate ongoing collection of:
 - Immunization data
 - Public health reportable data



NwHIN Connect

- Set of message protocols to allow
 - EMR to HIE messaging
 - HIE to HIE messaging
 - HIE to NwHIN messaging
 - HIE to CDC messaging
- All web based
- A reference model exists & is being managed by ONC
- Interface definitions are what is important, not the reference code



ONC Direct

- Secure point to point messaging
- A simple, inexpensive way to show meaningful use
- Similar to email
- Many commercial vendors provide Direct (HISPs)
- ILHIE will have a provider portal
 - One stop shop for providers
 - Providers can select and sign up for a HISP
 - Providers can see comparisons between different HISPs
 - HISPs will interface to the portal



Scenario #1 Emergency Room

- Unconscious patient presents in emergency room
- Patient identifying information obtained from patient's wallet
- Admitting Hospital's EHR is connected to ILHIE
- Available patient identifying data is entered into the local system
- Request for patient information is initiated to ILHIE
- The Master Patient Index (MPI) identifies patient

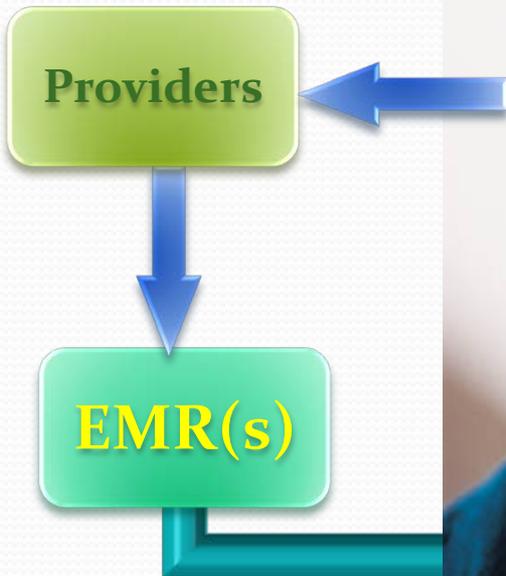
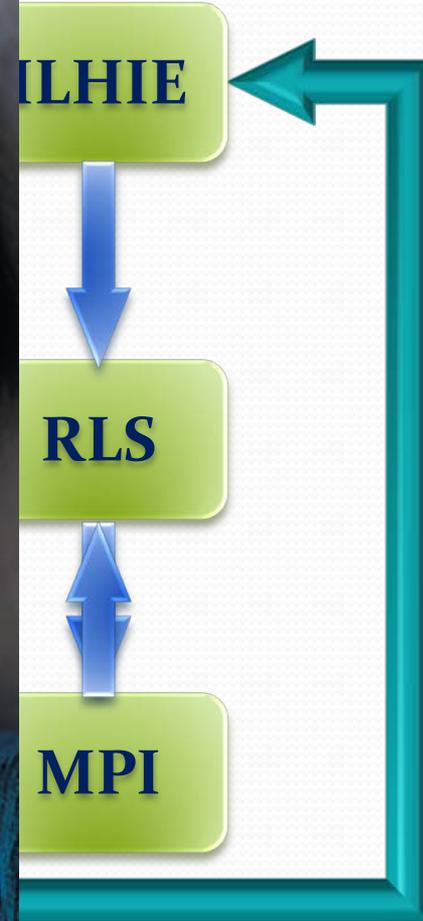


Scenario #1 *(Continued)*

- The Record Locator Service (RLS)
 - Obtains cross references to payers and providers
 - Queries appropriate systems for electronic records
 - Provider information (e.g. phone numbers)
 - Diagnoses
 - Drug history
 - Allergies
 - Previous ER visits or Hospital admissions
 - Etc.
- Results filtered by privacy and consent rules



ER Scena



Scenario #2 – Specialist Referral

- Patient is referred by Primary Care Physician to Specialist
- Specialist sends query for specific data from EMR to ILHIE
- RLS receives request
- Same as previous except data is filtered for specialist

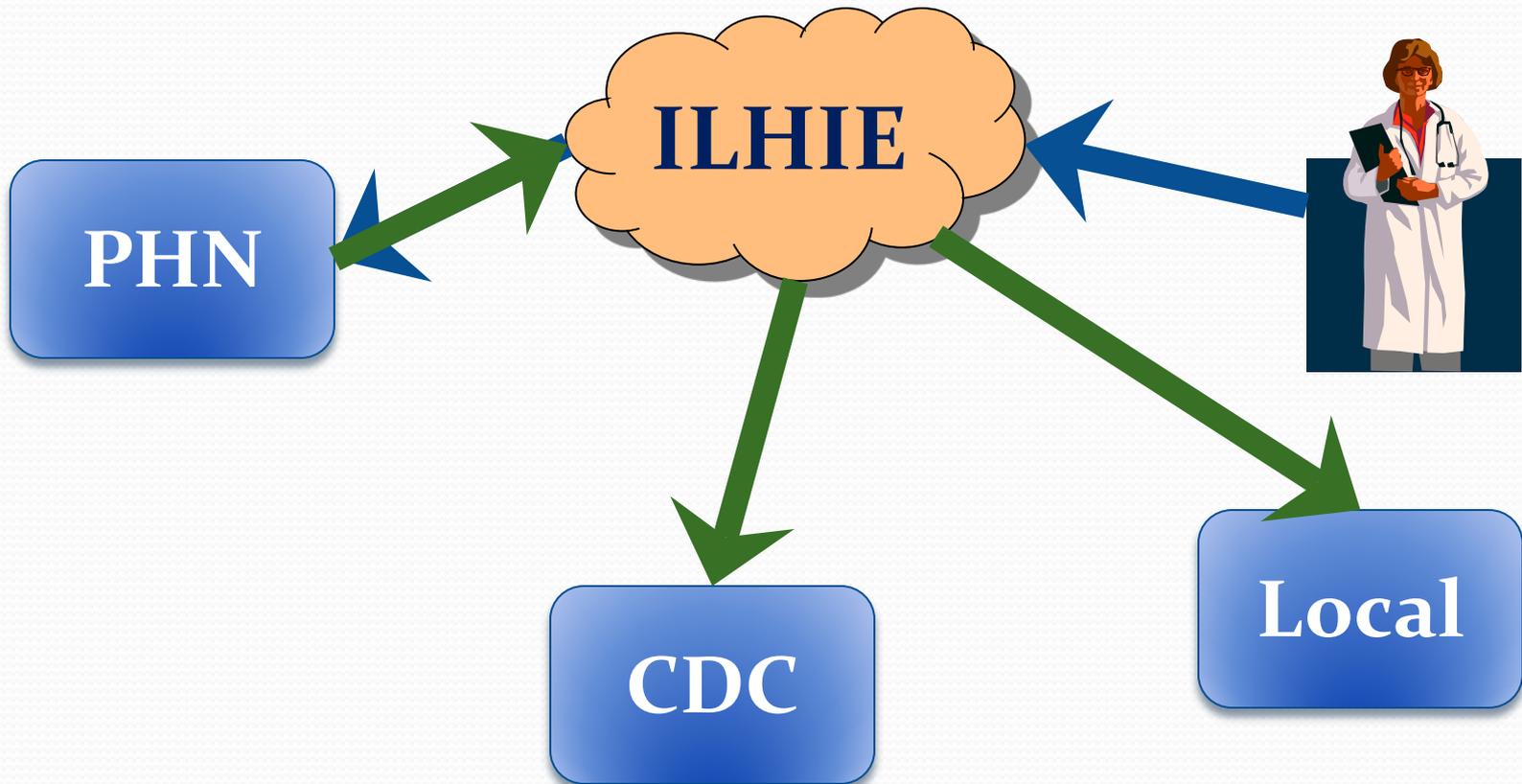


Scenario #3 – Public Health report

- Patient Presents to PCP
- Patient diagnosed with reportable condition
- Provider prepares report via EMR
- Report is forwarded to Public Health Node via ILHIE
- Public Health Node (PHN)
 - Sends report to CDC (if required)
 - Sends report to local public health agency
 - Sends report to any state or national monitoring project (subject to appropriate privacy and consent rules)



Public Health Reporting

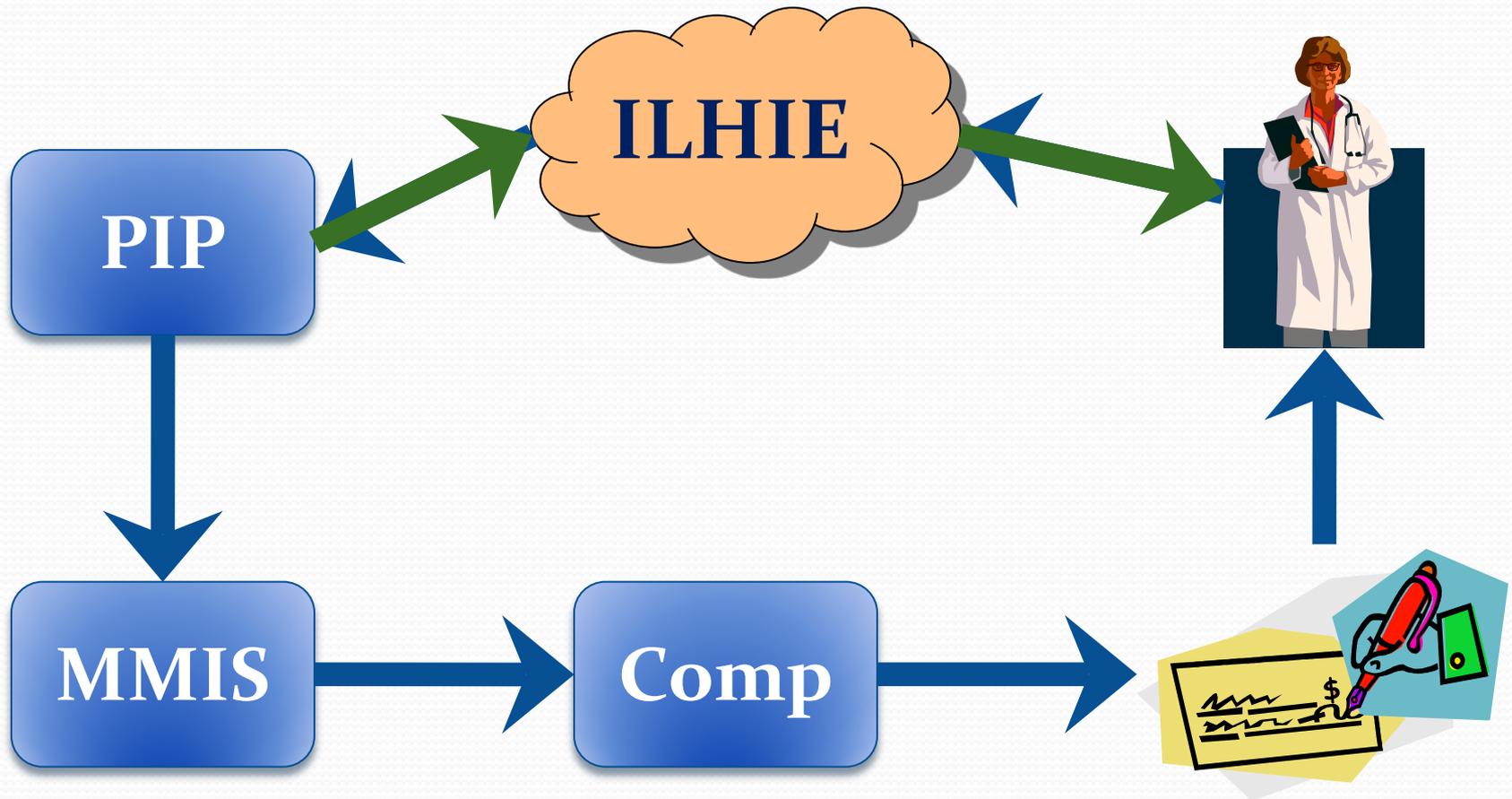


Scenario #4 – Meaningful Use

- Provider has patient encounter
- EMR captures clinical data
- Provider sends report (quality measures) to HFS PIP service to verify meaningful use
- PIP service accumulates data, reports results to provider
- PIP service authorizes payments
 - Schedule approved by HFS & CMS



Meaningful Use (stage 2+)



Service/Revenue Expansion

- Someone or group has a clever service idea
- They build a cloud-based service
 - Use ILHIE cloud services (application stack)
 - Get certified by ILHIE (privacy, consent, etc.)
 - Establish billing model
 - Sign contract with ILHIE (includes revenue stream)
- Open up the service to ILHIE users
 - Providers
 - Payers
 - Public



Challenges to Implementation

- Interface standards
 - Creating XML versions of current standards
 - HL7, IHE
- Privacy, security & consent
 - U of I SHARPS prototype
- EMR vendors need to embrace standards
 - As part of core offering
 - No extra charges



Implementation Schedule

- October 2011: Vendor Engagement
- December 2011: Initial HISP portal
- April 2012: Initial Core Services Availability
 - Provider directory
 - Master Patient Index
 - Initial Privacy & Security Services
- November 2012: Full Core Services Availability



The Role of the ILHIE Authority

- Oversee the long-term operation of the statewide HIE
- Ensure proper oversight and maintain public trust
- Facilitate public and private collaboration
- Receive private and public funds
- Leverage key government assets and facilitate participation of government and private entities
- Establish its own personnel and procurement rules for use of non-government funding





Web address: hie.illinois.gov

Email address: hfs.hie@illinois.gov