Past, Present...Past?

Innovations to Support Population Health

March 2017
Agenda

• Overview of IHIE
• A brief look back
• Where we are now
• Where we’re headed
• Discussion and Q&A
Overview

About the Indiana Health Information Exchange
Vital Statistics

• Nation’s largest HIE
  o 100+ hospitals, representing 38 health systems
  o 12,000+ practices with over 30,000 providers
  o 12 million+ patients
  o 9 billion clinical data elements

• Interoperable with 4 HIEs; will be exchanging among 7 HIEs in 2017

• Board Composition: Hospital System CEOs, Healthcare Associations, Academia, State, Community

• Regenstrief Institute partnership

• A 501(c)3 supporting organization

MISSION
Through information exchange, we improve health and healthcare.
Our “Footprint”
Our Customer Base

- Hospitals
- Payers
- Federal Government
- Long-term/Post-acute Care (LTPAC)
- Physicians
- Public Health
- Labs and Imaging Centers
What is HIE?

Clinical Data

HIE
- Hospital
- Payer
- Physician
- Lab/Imaging Center
- Long-term Care
- FQHC/CHC
- Other Healthcare Orgs

Data, Services, Value

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How HIE Produces Value

**Health Data Sources**
- Patient
- Physician
- Hospitals
- Physician Offices
- Labs/Imaging Centers
- Public Health
- Payers
- Outpatient Rx

**Value-Added Services**
- **Clinical Data Repository (INPC™)**
  - MPI & Record Locator Service
  - Longitudinal Patient View
  - SSO with patient context
- **Clinical Results Delivery (D4D)**
  - Web-based portal or EMR delivery
- **ACO & Population Health Mgmt.**
  - Clinical Event Notifications (ADT Alerts)
  - Clinical values report
- **Public Health Integration and Automation**
  - Bio-surveillance
  - Communicable Disease Reporting
  - Immunizations
- **Federal Government Services**
  - SSA Disability Determination
  - VA’s VLER Program
- **Meaningful Use Supporting Services**
  - Transitions of Care
  - Public Health Integration
Indiana Network for Patient Care

The INPC is one of the nation’s largest inter-organizational data repositories and contains nearly 9 billion clinical data elements over 30 years.

The INPC is:

- A robust clinical data repository, a governance structure, and an interoperable technology infrastructure
- A source of aggregated clinical data for a patient or a population
- Includes provider, payer, and public health data
- Real time interfaces from providers – lab, radiology, CCDs, transcription, cardiology, ADT
- Utilized heavily in hospital emergency depts, but also in a growing number of clinical and population health management settings
- Supports medical research
Review of Services

One Care
This suite includes some of our most widely used products, such as DOCS4DOCS and CareWeb. One Care offers solutions to improve the health of the INDIVIDUAL PATIENT.

Pop Care
Products in the Pop Care suite allow providers to track patients, measure progress and analyze data for a specific segment of the population. Pop Care provides insight into POPULATION HEALTH.
A Brief Look Back
A Program Designed to...

- Improve quality of care
- Provide clinical decision support at no cost to hospital or physicians
- Enhance reimbursement for primary care practices
- Provide more credible and “user friendly” pay-for-value program for physicians
- Provide meaningful information to support early interventions and consistent support to patients with chronic diseases
- Provide timely, actionable knowledge and feedback
- Pave the way for relevant public reporting
Sound Familiar?

Quality Health First® Program

A multi-payer, value-based reimbursement program

• Conceived within the Employers’ Forum of Indiana

• Developed by physicians, hospital networks, payers, Indiana State Medical Association, Indiana State Department of Health, and more

• Administered by IHIE in collaboration with Regenstrief
Why This is Relevant

Quality Health First®

- Was a vision of the Employers’ Forum
- Demonstrated IHIE’s capabilities in analytics
- Focused on value-based care
Investing in the Present and Future

We are committed to providing services to help our customers address issues in population health.

We’ve invested in a team of directors and developers to focus on strategic population goals.
Where We Are Now

Current Population Health Services and Initiatives
Support the patient/primary provider relationship, address appropriate usage of healthcare resources, and ultimately reduce healthcare costs for any managed care organization.

CareWeb access to the INPC for the purpose of analyzing data for a specific segment of the population.

A customized report to assist your organization in care management for specific populations and quality metric efforts.
Case Study: Improving Access to Clinical Data

**SCENARIO:** Large health system wanted to extract left ventricular ejection fraction (EF) data to support MSSP ACO-33

**PROBLEM:** EF data is buried within free text patient charts and requires extensive manual chart reviews by highly qualified clinical staff

**SOLUTION:** Regenstrief piloted its nDepth tool to mine and unlock the unstructured EF data within reports and documents in the INPC

**RESULTS:** The nDepth process took only minutes to perform, significantly improving the accuracy and speed of mining EF data as compared to manual chart review.
Case Study: Measure and Target Interventions

**SCENARIO:** Indiana Bioscience Research Institute (IBRI) needed access to data for an Indiana State Department of Health (ISDH) project to measure and target interventions to combat obesity.

**PROCESS:** IHIE extracted the appropriately de-identified data from the INPC in the format that ISDH needed.

- **Step 1:** Created data extract within certain parameters, i.e. date range, demographics (age, gender, year of birth, etc.), vitals (height and weight).
- **Step 2:** Coded the results for specific conditions and observations (obesity and diabetes-related factors).
- **Step 3:** Provided raw data file, summary of results, and explanation of methodology.
Where We’re Headed
Learning from the Past
What’s Different Now?

• We’ve learned from Quality Health First
• The market has evolved
• There’s a renewed industry focus on analytics
Where IHIE Can Contribute

- Provide informational intervention
- Enhance health improvement programs
- Measure quality or effectiveness
- Physician attribution
- Value of claims and clinical data combined
Discussion

The data of which we are stewards can help solve a number of complex challenges that employers, payers, and providers face.

But we need to understand what those challenges are.
Thank you!

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