Indiana Health Information Exchange

Better Outcomes. Delivered.

Seventh National Predictive Modeling Summit

"Using Predictive Analytics to Reduce Readmissions"

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Agenda

- Indiana Health Information Exchange (IHIE) Background
- Why Predictive Analytics?
- First Predictive Analytics Use Case being Developed
- Indiana Predictive Health Collaborative (IPHC)
- Closing Thoughts

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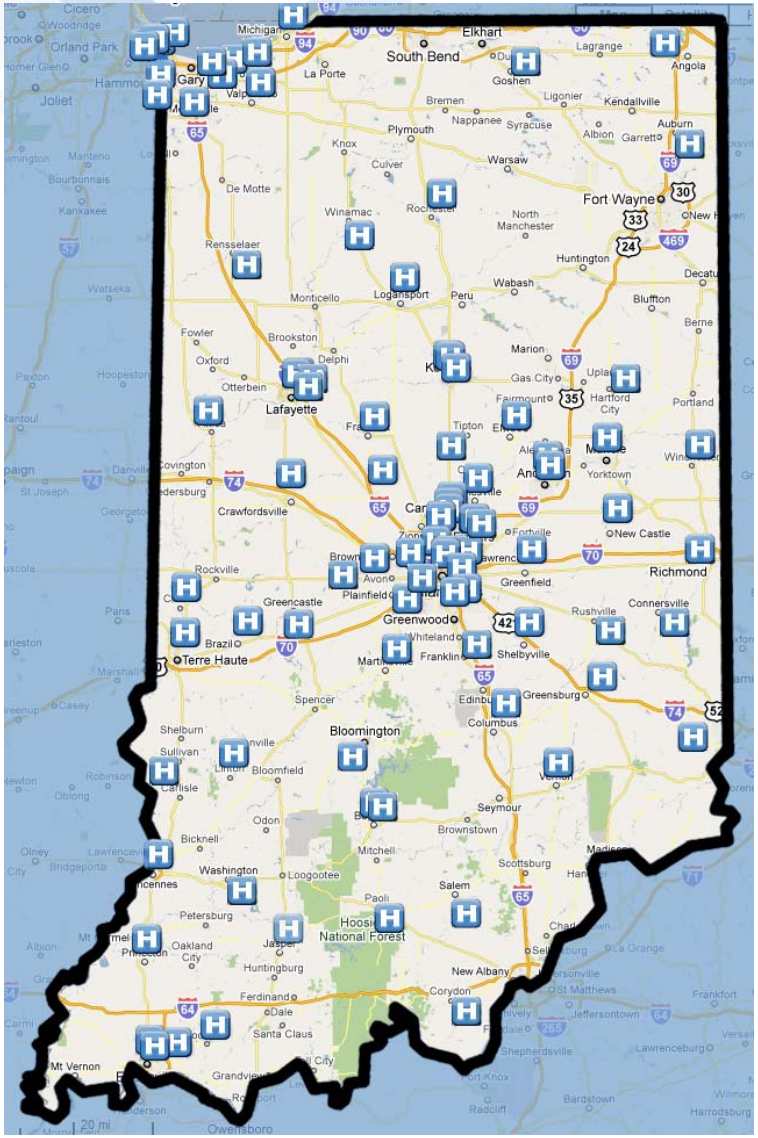

IHIE Background

- Nation's largest Health Information Exchange (HIE)
- Founded in February 2004
- Based on the technology, knowledge, and experience of the Regenstrief Institute
- Providing services to 94 hospitals (37 health systems), 25,000 clinicians, and 5 payers
- Serving an area with a population of about 6.5 million people

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IHIE Data

IHIE Operates one of the nation's largest Clinical Data Repositories (CDR)

- 10.75 million unique patients
- 20 million registration events
- 3 billion coded results
- 38 million dictated reports
- 9 million radiology reports
- 12 million drug orders
- 120 million radiology images

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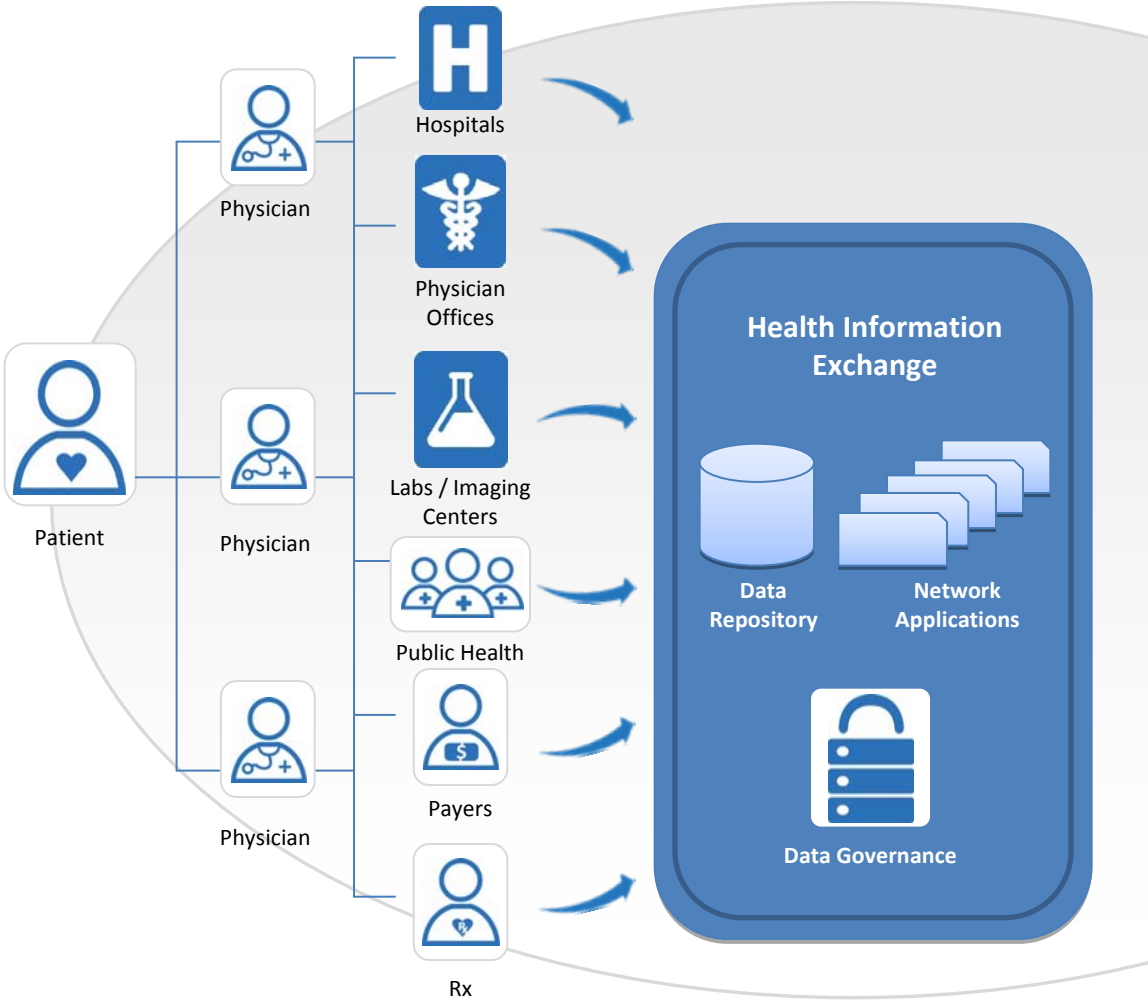
IHIE Services

Health Data Sources



Value Added Services

Docs 4 Docs® Service

INPC™

Quality Health First® Program

ImageZone℠ powered by seemyradiology.com

Indiana Health Information Exchange
Professional Services
ACO & Analytic Services

PHESS
Public Health Emergency Surveillance System

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Outside Indiana

thrive

HEALTH DATA SOLUTIONS

Bringing Data to Life.

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Why Predictive Analytics?

- Lots of Rich, Disparate Data is needed to “Power” Predictive Models
- Strong Market Need, Limited Experience and Expertise especially developing Predictive Models that use Clinical Data versus Claims Data
- Huge Opportunities and Value if you can be Predictive/Interventional versus Retrospective/Reactive
- We believe it is the “Right” next Step in the Evolution of Successful HIEs

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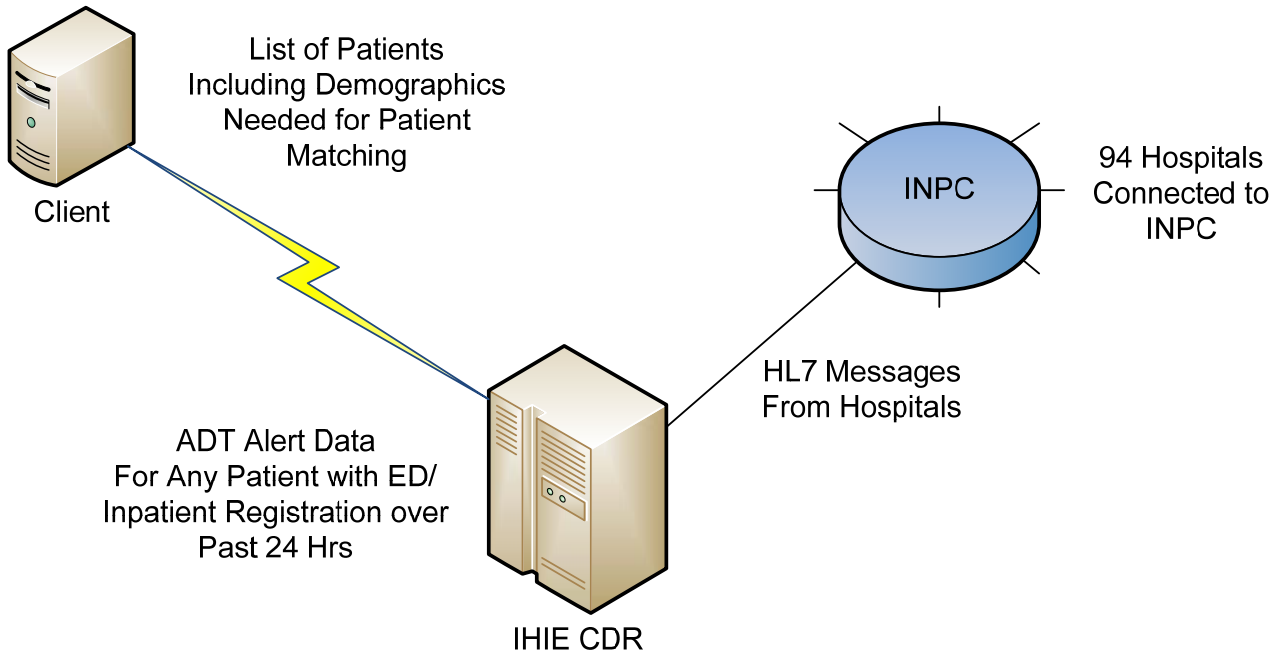
First Predictive Analytics Use Case

IHIE Current ADT Alerts Service



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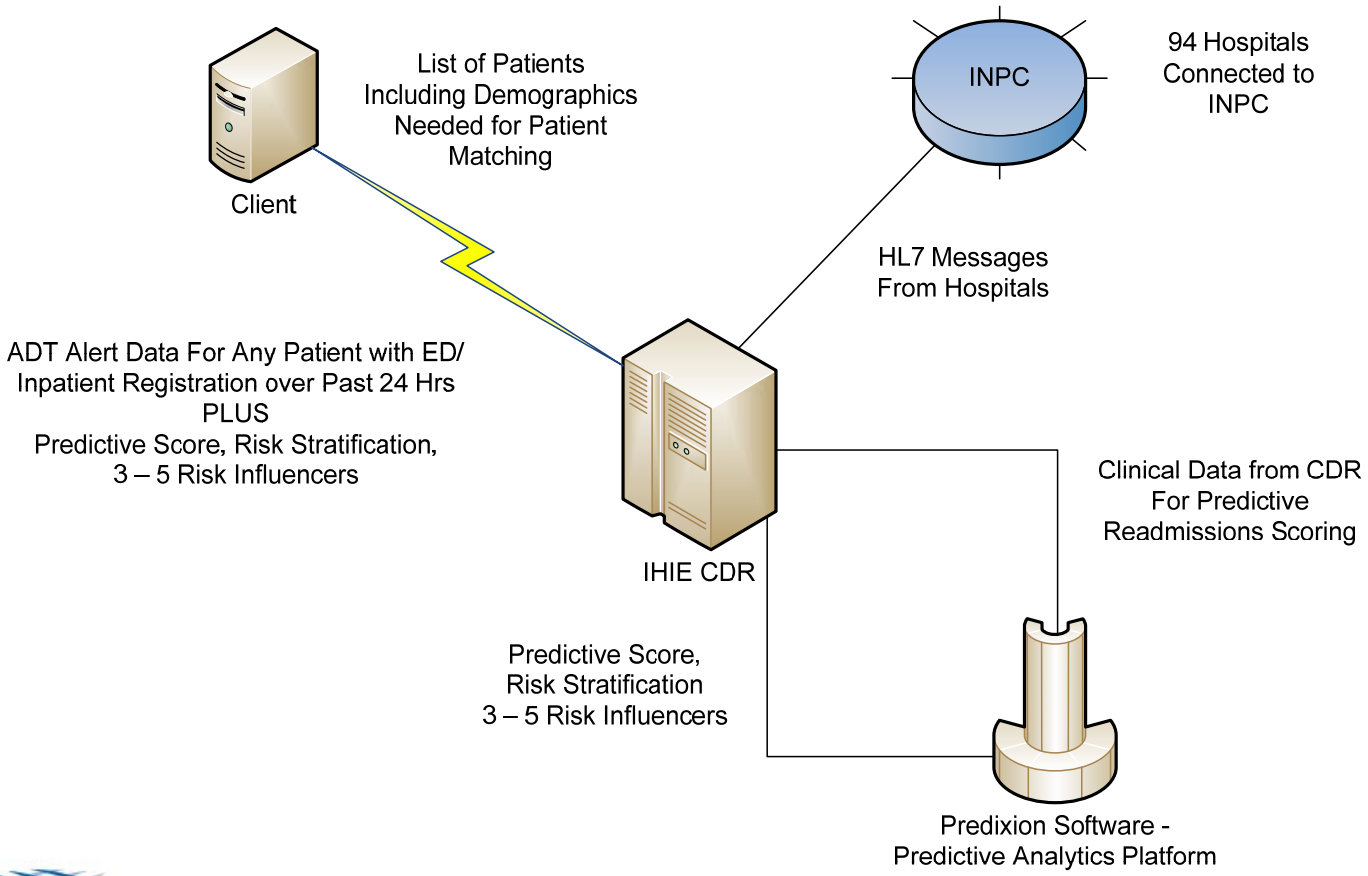
First Predictive Analytics Use Case

IHIE ADT Alerts Service plus Predictive Readmissions Scoring



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Indiana Predictive Health Collaborative (IPHC)

- Bring together a broad group of INPC Providers who will Collaborate to develop a set of Predictive Models in 2014 that have a broad community focus (Readmissions, Sepsis, Catheter Infections, etc.)
- This group of Providers will be part of a Steering Committee that will provide direction and feedback for current and future model development activities
- INPC Membership and “Pay to Play” participation requirement
- Spread investment cost of hardware, software, and people across a larger group
- Leverage the rich set of data that has been/is being collected, cleansed, normalized, and aggregated via the INPC for Predictive Analytic Models

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Closing Thoughts

"You can't fix what you can't measure."

- Author Unknown

"In God we trust; all others must bring data."

- W. Edwards Deming, statistician, author, lecturer, and consultant

"Without big data, you are blind and deaf and in the middle of the freeway"

- Geoffrey Moore, author and consultant

"If we have data, let's look at data. If all we have is opinions, let's go with mine"

- Jim Barksdale, former Netscape CEO

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Thank You

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