



Part 2: Health Information Exchange: Sharing and Acting Upon Screening Results

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Impetus for HIE

- CMS Meaningful Use (2011-2016)
- Electronic Medical Records
- Accountable Care Organizations
- Patient-Centered Medical Homes
- Triple Aim
- Care Coordination/ecosystem approach to health
- Developmental screening in early learning settings

EMR to HIE

- American Recovery & Reinvestment Act (ARRA) 2009
 - “stimulus money”
 - Health Information Technology for Economic & Clinical Health (HITECH) Act (CMS)
 - Incentivized use of EMR “Meaningful Use”
 - Spurred proliferation of EMRs and HIEs
 - 2008-2010 HIE development increased 40%

EMR to HIE

CMS Meaningful Use

- Stage 1
 - 2011-2012
 - Implementation of EMR; data capturing & sharing
- Stage 2
 - 2014
 - Advance clinical processes; quality measures
- Stage 3
 - 2016
 - Improved outcomes

EMR TO HIE

Stage 2: Proposed Domains for Clinical Quality Measures



eHealth Initiative 2012
<https://www.ehidc.org/resources>

EMR to HIE

- Patient Protection & Accountable Care Act (2010)
 - Shift to Triple Aim
 - Team-based, systems approach toward care coordination
 - Broader data sets across the care continuum
 - Creation of a value-based network of care (ACOs)
 - Incentivizes and compensates providers based on a balanced measurement of quality of care delivered and cost containment achievement

EMR to HIE

Accountable Care Organizations



Promote ecosystem approach to health and healthcare



Demands data and communication interoperability

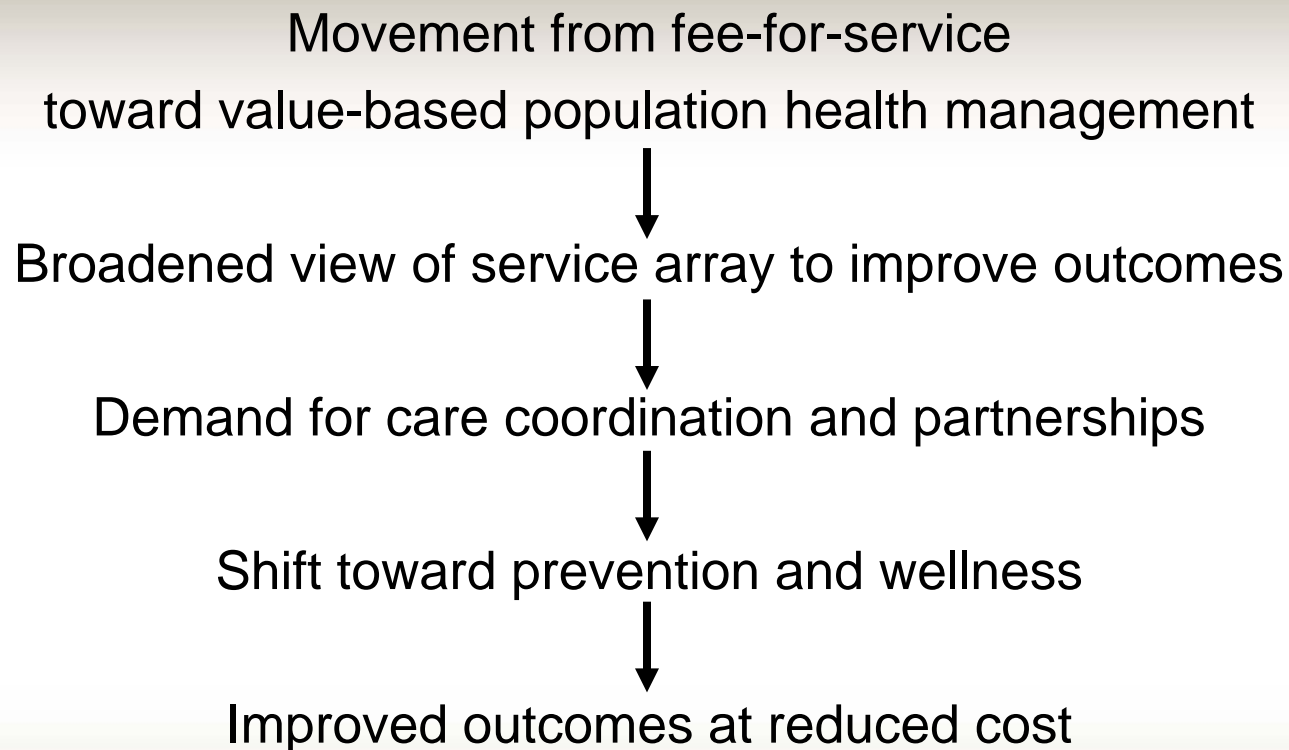


Calls for HIE

EMR to HIE

- Value-based Care
 - Promotes utilization of appropriate medical services
 - Encourages team approach to care
 - Incentivizes preventive health and care coordination
 - Spotlights population health

EMR to HIE





HIE

Purpose

To enable the creation of an interoperable EMR for each individual by connecting the information contained in various organizations across the entire continuum of care

“service community view” of a patient’s health record

Marchand 2010
<https://www.ehidc.org/resources>



HIE

- Health Information Organizations
 - Send & receive clinical data
 - To a multitude of entities
 - At specific points in time
 - To understand current needs of a patient or population
- Aggregating data from multiple EMR systems to view entire care/service communities provides a more complete, patient-center view of each individual's healthcare data



HIE

- Improving Quality & Efficiency of Care
 - Identify gaps in screening (patient-specific and population level)
 - Reduce duplication of screening
 - Create seamless transfer of screening results
 - Reduce lag time between screening and diagnostic evaluation
 - Provide timely implementation of developmental services



HIE

- Improving Quality & Efficiency of Care
 - Improve management of chronic conditions
 - Operationalize medical home care model
 - Coordinate treatment plan
 - Track outcomes
 - Open opportunity for creation of registry

HIE

HIE: interoperability of data repository from multiple disparate settings



Comprehensive 'team' informed data and analysis



Continuous monitoring and learning health outcomes across settings of care



Inform treatment plan



Connects treatment plan to outcomes



Documents improved outcomes at reduced cost

“Learning Healthcare System” (IOM 2007)

Benefits of HIE

- Patient-Centered/Family Focused
 - Team care
 - Management of chronic conditions
 - Multiple providers
 - Care coordination across disparate settings
 - Efficiency in array & delivery of services
- Population Health
 - Identification of at-risk population
 - Identification of service gaps
 - Detection of adverse health patterns
 - Zika virus
 - Pb exposure

HIE Routing Map

Electronic
developmental
screening



Medical
provider



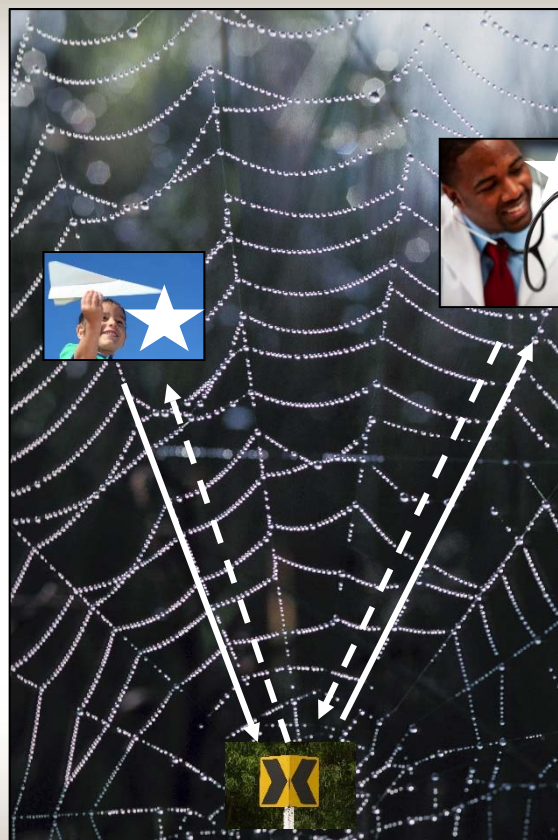
HIE

HIE Routing Map

Electronic developmental screening



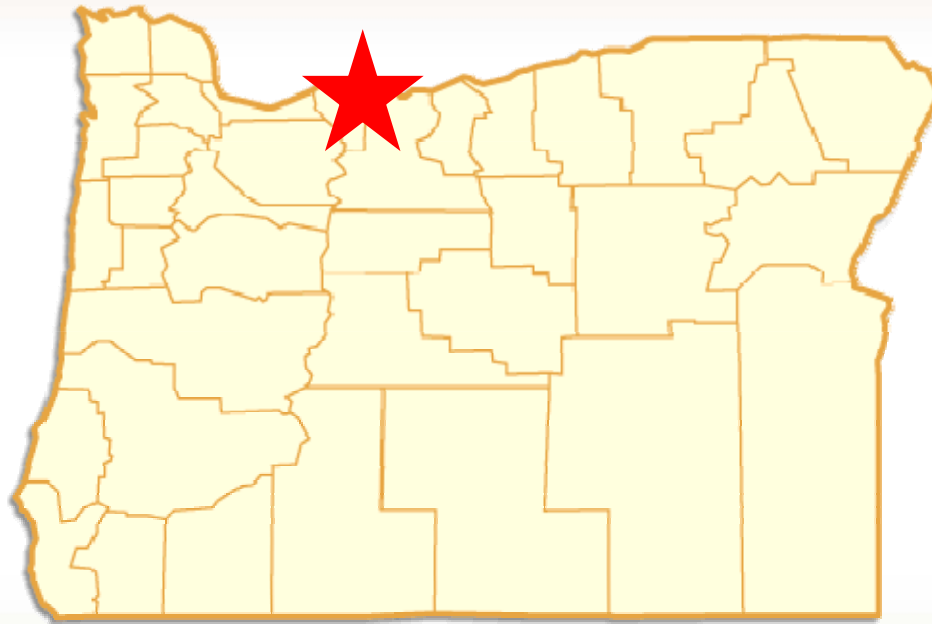
Medical provider



HIE

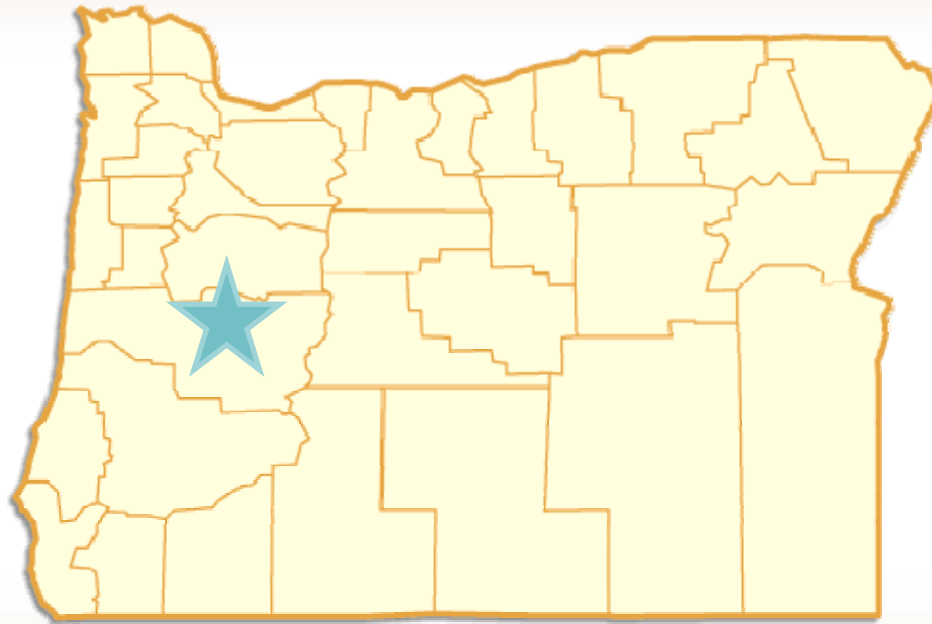
HIE Example

- Hood River Head Start



HIE Example

- Feasibility Study



Summary

- Multiple federally legislated policies have incentivized and spurred EMR implementation and development of HIE.
- Developmental screening aligns well with healthcare reform promoting better health outcomes at lower cost.
- Opportunities exist for connecting developmental screening results to medical providers via existing HIE.

Discussion and Q&A



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