# The Next Generation of RHIOs: Health Information Exchange Through Common Shared Record

Presented by Kate Cauley, PhD, Director Center for Healthy Communities Boonshoft School of Medicine Wright State University, Dayton, Ohio AHRQ 2006 Patient Safety and Health Information Technology Conference: Strengthening the Connections June 2-6, 2006 Washington, D.C. **Regional Health Information Organizations** 

You've seen one, you've seen one... Conceptually:

×

 RHIOs provide access to data through regional hubs of the largest geographic or business area politically feasible

> Regional hubs facilitate access to data for national health information infrastructure

### **RHIOs: Common Factors**

\*Data is transmitted from one organization to another.

\*Data sharing agreements define purposes and types of transmissions.

Commonly understood governance structure coordinates efforts.

# **RHIOs: Beginnings & Purposes**

Ohio as a microcosm: \* Appalachian Regional Informatics Consortium \* HealthBridge \* HealthLink RHIO \* NEORHIO

## **RHIOs: Applications and Uses**

**Central data warehouse \***Router eligibility queries transactions **\***Switchboard \*Central data repository **\***Disease management/research



# **Health Information Exchange**

**\*** Health Information Exchange assumes providers are exchanging information Clinical messaging **CPOE** ePrescribing **Disease reporting \*** Common Shared Record assumes multiple providers are feeding a centrally accessed record.

## **Common Shared Record**

#### **Best Practices**

Local governance through trusted third party
 --Former CHINs

--Community academic partnerships/schools of medicine

--Hospital associations

- --Non-profit corporations
- --State/local governments

### **Common Shared Record**

#### **Best Practices**

**\*** Information sharing agreements

- --Responsibility for privacy notice
- --Responsibility for accuracy of data
- --Processes for regular audits

--Assume all information is shared and access managed through role based authorization and HIPAA audit trail

--Assume opt in

### **Common Shared Record**

#### **Best Practices**

- \* To the extent possible, use of existing and emerging standards, open source, non-proprietary software, and extensible, scaleable platform
- Incremental development of products and tools in response to user identified need
- \* Utilization research to demonstrate proof of concept, ROI, quality assurance, and other valued outcomes

# HealthLink Information Exchange HIEx<sup>TM</sup>

# \*Begun to identify health uninsured and connect to resources

- Paper referral process established structure for data exchange across provider orgs with ind.
   pt. permission—demographics, eligibility and services utilization
- Requests for case management and scanning, functionalities, immunizations and medications modules

# HealthLink Information Exchange HIEx<sup>TM</sup>

#### **\* Evolved to shared community health record**

- Health and human services safety net providers became organizational members, assumed responsibility for privacy notification
- Public Health Department interested in chronic disease management and disease reporting
- Outpatient physician practices and hospital EDs interested in getting bills paid through Medicaid enrollment



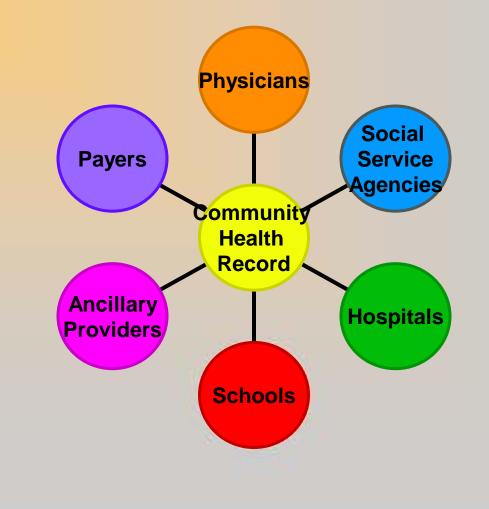
# Hierarchical HealthLink Information Exchange HIEx<sup>TM</sup>

### **\*Current functionalities/features**

- Data stored by individual and household
- ✓ Role based access
- ✓ Full HIPAA audit trail
- Stored Procedures
- ✓ Standards based
- ✓ XML, Microsoft SQL and Teradata
- Public utility sustainability model



# Hierarchical HealthLink Information Exchange HIEx<sup>TM</sup>



# HIEx<sup>TM</sup>

# **\*Next Steps**

- --integrate billing and transactions
- --complete health record
- --add e-prescribing
- --integrate with in-patient systems
- --concurrently market to other communities
- --data mining and analytics

#### Questions

Contact me at <u>Katherine.cauley@wright.edu</u>
Center for Healthy Communities
Boonshoft School of Medicine
Wright State University, Dayton, Ohio
937 775 1120