Health Information Exchange

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Agenda

• Why do we need health information exchange (HIE)?
• What the CORHIO HIE is and who’s participating
• How the HIE can help you meet Meaningful Use
• What CORHIO offers beyond basic HIE services
Why do we need HIE?
# Why do we need HIE?

<table>
<thead>
<tr>
<th>Old/Current Methods</th>
<th>These Are...</th>
<th>Contributing to...</th>
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</thead>
<tbody>
<tr>
<td>• Paper charts</td>
<td>• Expensive</td>
<td>• Delays in patient care</td>
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<tr>
<td>• Faxes</td>
<td>• Slow</td>
<td>• Medical errors</td>
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<tr>
<td>• Phone calls and voice mail</td>
<td>• Resource-intensive to manage</td>
<td>• Unnecessary tests</td>
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<td>• Snail mail</td>
<td>• Incomplete (missing information)</td>
<td>• Avoidable hospital readmissions</td>
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<td>• Hospital- or lab-specific portals and/or point-to-point connections</td>
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<td>• High overhead costs</td>
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These methods are:
- Expensive
- Slow
- Resource-intensive to manage
- Incomplete (missing information)

Contributing to:
- Delays in patient care
- Medical errors
- Unnecessary tests
- Avoidable hospital readmissions
- High overhead costs
- Low-quality care
- Higher healthcare costs overall
HIE Reduces Readmissions

57%

HIE Lowers Odds of Readmission by 57%
When patient data was accessed in the HIE by ambulatory providers, 30-day readmissions went from 10.1% to 5.1%.

Source:
Study: Journal of the American Medical Informatics Association, 2014; The potential for community-based health information exchange systems to reduce hospital readmissions (link)
HIE Reduces Duplicate Tests

49%

Study: HIE Reduced the Number of Outpatient Lab Tests Performed by 49%

Source:
News: Modern Healthcare, April 2, 2012 (link)
HIE Improves Efficiency

Organizations Using HIE Reported:

✓ **Decreased staff time spent** on clerical administration and filing

✓ Ability to **trim staff time** spent on handling lab and radiology results

✓ **Spending less** money on redundant tests

Source: Information Week Health Care  August 4, 2010 @ http://www.informationweek.com/news/healthcare/clinical-systems/226500286
HIE Helps Coordinate Care

✓ Referrals and transitions of care – generate and send care summaries from the HIE (i.e., patient discharged from hospital to hospice care)

✓ New patient prep - use HIE to search for medical history on new patients to prepare for appointments

✓ Results delivery – query the HIE or receive results directly into EHR for existing patient test results to better inform clinical decisions

✓ Emergency care coordination – EMS personnel and hospital emergency dept physicians use HIE to find medication allergies or other pertinent clinical data, such as recent test results or evidence of “doctor shopping”
HIE in Colorado

• CORHIO is one of two HIEs in the state
• Quality Health Network (QHN) is the HIE on the Western Slope
• We’re working on bidirectional exchange to connect the two HIEs
About CORHIO

Who We Are

• Colorado Regional Health Information Organization
• A nonprofit public-private partnership

What We Do

• Facilitate health information exchange (HIE) between healthcare providers
• Assist providers with EHR adoption, Meaningful Use and practice transformation
• Support transitions of care

Vision

• Shared health information for all individuals in every Colorado community
CORHIO By the Numbers

- **49** Hospitals Connected (10 more underway)
- **2,700+** Providers Connected (7,700+ total users)
- **4,000,000+** Patients in the Community Health Record
Hospitals - Connected

Last updated 9/28/15

Banner Health System (8/2012)
- Banner Fort Collins Medical Center (4/2015)
- East Morgan County Hospital
- McKee Medical Center
- Northern Colorado Medical Center
- Sterling Regional MedCenter

HealthONE Health System (12/2014)
- North Suburban Medical Center
- Presbyterian/St. Luke’s Medical Center
- Rocky Mountain Hospital for Children
- Rose Medical Center
- Sky Ridge Medical Center
- Spalding Rehabilitation Hospital
- Swedish Medical Center
- The Medical Center of Aurora

Centura Health System (10/2011)
- Avista Adventist Hospital
- Castle Rock Adventist Hospital
- Littleton Adventist Hospital
- Mercy Regional Medical Center
- OrthoColorado Hospital
- Parker Adventist Hospital
- Penrose Hospital
- Porter Adventist Hospital
- St. Anthony Hospital
- St. Anthony North Hospital
- St. Anthony Summit Medical Center
- St. Catherine’s Hospital, Kansas (09/2014)
- St. Francis Medical Center
- St. Mary-Corwin Hospital
- St. Thomas More Hospital

Connection dates in parentheses
SCL Health System (Exempla) (5/2014)
• Good Samaritan Medical Center
• Lutheran Medical Center
• Saint Joseph Hospital

University of Colorado Health System
• Medical Center of the Rockies (12/2011)
• Memorial Hospital Central (7/2012)
• Memorial Hospital North (7/2012)
• Poudre Valley Hospital (12/2011)
• University of Colorado Hospital (6/2013)

Independent Hospitals
• Boulder Community Hospital (2/2011)
• Boulder Community Foothills Hospital (2/2011)
• Children's Hospital Colorado (12/2012)
  (new South Campus added 1/2014)
• Conejos County Hospital (9/2014)
• Craig Hospital (receiving data only) (7/2013)
• Estes Park Medical Center (8/2014)
• Evans Army Community Hospital (12/2013)
• Longmont United Hospital (12/2011)
• Mt. San Rafael Hospital (8/2015)
• Parkview Medical Center (4/2012)
• Prowers Medical Center (12/2014)
• San Luis Valley Regional Medical Ctr (8/2011)

Connection dates in parentheses
Independent Hospitals

- Animas Surgical Hospital
- Arkansas Valley Regional Medical Center
- Colorado Plains Medical Center
- Denver Health & Hospital Authority
- Kit Carson County Memorial Hospital
- Melissa Memorial Hospital
- Pagosa Springs Medical Center
- Rio Grande Regional Hospital
- Southwest Memorial Hospital
- Vail Valley Medical Center

Connection dates in parentheses
Labs Participating in HIE
Last updated 9/28/15

Connected to HIE:

• Colorado Lab Services
• LabCorp
• Quest Diagnostics
  (9Health Fair)
• Schryver Medical

Under Agreement:

• Cedar Diagnostics
• Gastroenterology of the Rockies (in-house pathology lab)
• MetroPath
• UniPath
CORHIO HIE Network Growth

Hospital Participation Growth

User Participation Growth

- Hospitals - Connected
- Hospitals - In Implementation

- HIE Users
- Community Providers (prescribers)
HIE in Use
Paper & phone based with some **limited** electronic connections

One electronic connection to the HIE to access/share patient information across the state
Types of HIE

• PatientCare 360® web portal
  - Data from all of our senders available via query or clinical inbox in web-based portal

• Results pushed into provider’s EHR
  - CORHIO connected to 30 different EHRs; 7 more underway

• Direct messaging
  - Secure, HIPAA-compliant email for provider-to-provider communications

• Send immunizations to CIIS through CORHIO interface
What type of data is available?

- Hospitals
  - ADT Info
  - Transcription Notes
  - Consult & Operative Reports
  - Lab/Rad Results
- Laboratories & Radiology Centers
  - Lab Results
  - Pathology Reports
  - Radiology Reports
- Public Health Departments
  - Newborn Screening Results
“Use of the CORHIO system helps reduce the need to send information about the transferred patients by more primitive methods — such as paper, faxing and email — and helps expedite patient care.”

- Gary Hall, Estes Park Medical Center
“For patients that are complicated and may not know their entire history, having another source of information is incredibly helpful. If I see a patient that has abnormal labs, for example, and they can’t tell me if they’ve been in the other hospital, and that information is in CORHIO. CORHIO really does help move healthcare forward.”

- Dr. Jack Sharon, Penrose Hospital
“Many of our patients are seen in the hospital before they come to us – maybe they’ve had a kidney stone or some type of emergency. Now with CORHIO, we actually get the information before we even have the patient’s chart established in our system, it’s so fast.”

- Anne Archer, The Urology Center of Colorado
“When a patient shows up at our urgent care and they don’t have a history with us, it’s best for their care if their health history is in a central place. The HIE has completely changed the way we care for patients.”

- David Glow, Boulder Medical Center
How HIE Can Help You Meet Meaningful Use
How HIE Helps With Meaningful Use

Public Health Reporting

• CIIS – providers send data to Colorado’s immunization registry through the CORHIO network

• Cancer Registry – CORHIO working on pilot w/Salud to filter their CCDs for cancer information and send it on to CDPHE

• Summary of Care (CCD) – must be transmitted electronically to meet Meaningful Use; generated by your certified EHR; CORHIO working on technology
EHR Connectivity Status

Green: Connected to CORHIO

- AllMeds
- Allscripts Pro
- Allscripts TouchWorks
- Amazing Charts
- Aprima
- AthenaHealth
- CareTracker
- Cerner Millennium/
  PowerNotes
- CoCentrix
  (formerly UNI/CARE)
- eClinicalWorks
- e-MDs
- Elekta Mosaiq
- Epic
- GE Centricity
- Greenway
- HealthFusion
- HealthTronics/UroChart
- McKesson Horizon
- McKesson Practice Partner
- MEDHOST
- Meditech
- MicroMD
- ModuleMD
- Netsmart
- NextGen
- Office Practicum
- Red Planet
- Sevocity
- SRSsoft/SRS EHR
- Vitera/Intergy

Yellow: In process to connect to CORHIO or verified as being able to connect

- Answers on Demand
- CareCloud
- CureMD
- MacPractice
- MediTab
- Point Click Care
- Pulse Systems

Red: Unlikely to connect to CORHIO in the near term

- Practice Fusion
CORHIO’s team can help you with Meaningful Use:

- Generating and reviewing Meaningful Use reports from your EHR and helping you with necessary changes
- Completing a security risk assessment, which is required of all providers in the EHR Incentive Programs
- Creating an audit binder to ensure your practice has the necessary documentation in the event of an audit
- Attesting to Meaningful Use using the CMS Registration and Attestation System (for Medicare) and/or the Colorado Registration and Attestation System (for Medicaid)
What's New at CORHIO
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Data Services for Accountable Care

• We can deliver data files, reports, and notifications that give you insight into your patients and members, allowing you to improve clinical quality and reduce costs

• Real-time clinical data on patients and members, which helps pinpoint areas for improving outcomes and containing costs

• Especially helpful when patients receive care from providers outside your network or health system
What’s New at CORHIO

Patient Event Notifications

Through a report or electronic interface, we can notify you when patients are hospitalized or visit the ER.

• Prevents hospital readmissions
• Improves disease management programs
• Informs quality improvement initiatives
• Supports risk-based contracts
• Reduces unnecessary duplicative testing and avoidable ER utilization
What’s New at CORHIO

Single Sign On

Technical connection that allows customer to launch PatientCare 360© from within the EHR

• Improves workflow because providers don’t have to switch between windows to get information

• Saves time, especially in crucial ER situations
What’s New at CORHIO
Ambulatory CCD Exchange

Providers can send care summaries into the HIE – new product in development

• Right now, we are taking them in, we are working on making them searchable and viewable
• Part of the Colorado Care Connections Program for Medicaid providers and other grant opportunities
• When this is true exchange and viewable in CHR, ambulatory data will be seen by specialists, vice versa
What’s New at CORHIO

Imaging Results

• Health Images – first non-hospital radiology service provider to join CORHIO
• Includes locations in Colorado Springs and metro Denver
• Real-time access to radiology reports and high-quality images when a patient of a CORHIO participant has an MRI, CT Scan or other radiology test performed at Health Images
• Reports will be available through CORHIO’s PatientCare 360® portal or via EHR
What’s New at CORHIO
Colorado Care Connections Program

• Funded by Health Care Policy and Financing (HCPF) to assist Medicaid providers in connecting to the HIE

• CORHIO will be assisting practices identified by HCPF with:
  • How to integrate their workflow around the HIE
  • Meeting Meaningful Use
  • Improving their electronic Clinical Quality Measures (eCQMs)
  • HIPAA policies and procedures tied to connecting to the HIE
What’s New at CORHIO
Other Grant Opportunities

• Evidence Now Southwest - building a quality improvement program using cardio measures; for independent PCPs, internal medicine, geriatrics
• Advanced Interoperability Grant – getting data from long-term care, physicians and behavioral health providers into the HIE
• State Innovation Model (SIM) – joining mental and physical health providers; incentive payments from payers
• Testing Experience and Functional Tools (TEFT) – personal health record for Medicaid waiver LTSS clients; software/hardware costs offset by grant
• Transforming Clinical Practices Initiative (TCPI) – specialists and PCPs to transform to value-based care and payment models
Questions?

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