

“One Connection For A Healthier Missouri”



Advancing the Future of Healthcare

A presentation for

HIMSS
HEART OF AMERICA Chapter



MISSOURI
HEALTH
CONNECTION 

What is Missouri Health Connection?

- ✦ The nationally recognized **State-Designated Entity** for health information exchange in Missouri
- ✦ Private, Not-For-Profit health information organization (HIO) governed by a Private/Public Board of Directors
- ✦ Enables health care systems and providers to perform clinical document exchange of patient information through a query-based bi-directional exchange platform in a private and secure network.

MHC's Technology Platform

- ❖ Record locator model platform that ensures that MHC's Participants own and store the data that is shared on the MHC network
- ❖ Enables role-based access for health care providers to see data on the MHC network
- ❖ Network can only be used for clinical treatment and public health reporting purposes

MHC's Network Provides

- ✦ An economical network for interconnectivity to the statewide health care provider community
- ✦ A real-time, aggregated clinical patient record at point of care
- ✦ Meaningful use attestation
- ✦ Access to:
 - ✦ All statewide health data: Medicaid, Public Health and Mental Health
 - ✦ Interstate connectivity with our border states

MHC CareNet Services in more Detail

- ✱ EHR Integration
- ✱ Disease Management and Medical Home Tools
- ✱ Lab, Pathology, Radiology Results Delivery
- ✱ Discharge Summary Delivery
- ✱ Event Notifications
 - Inpatient Admissions
 - Emergency Room Visits
 - Patient Discharges
- ✱ Referral Support
 - PCP to Specialist (Provider to Provider)
 - Hospital to Post Acute Care or Behavioral Health
- ✱ Secure Clinician to Clinician Messaging
 - Clinical Message Center
- ✱ EMR Integration
- ✱ Disease Registry/Medical Home
- ✱ Public Health Reporting
- ✱ Encounter History
- ✱ Medication History

MHC's Patient Consent Model

Informed Opt-Out:

Patient provided the opportunity to opt out of participation in MHC.

MHC Participants choose what information is shared on the MHC network

Data sharing requirements include federal and state mandates and public health reporting data.

The Value of MHC

- ✦ As the health care system undergoes fundamental change as a result health care reforms, the evolution of health information exchange (HIE) can provide the technological support to assist health care providers adjust and comply with the new requirements.
- ✦ MHC's technology platform can support providers transition with the new emerging payment models, meaningful use requirements and quality reporting requirements by providing information management methodologies and best practices to be competitive and compliant with federal standards and mandates.

MHC Early Adopters

Participant adoption includes over 60% of the health care provided in Missouri

- * BJC Healthcare
- * SSM Health Care
- * Mercy
- * Burrell Behavioral Health
- * Nevada Medical Clinic
- * Crider Health Center
- * State of Missouri
- * Bates County Memorial Hospital
- * MU Sinclair School of Nursing
- * Illinois Health Information Exchange
- * Nebraska Health Information Initiative
- * Kansas Health Information Network
- * Hermann Area District Hospital
- * Salem Memorial District Hospital

MHC CONTACT INFORMATION

www.MissouriHealthConnection.org

“One Connection For A Healthier Missouri”

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LEWIS AND CLARK INFORMATION EXCHANGE

Powered by Cerner

HOA HIMSS

6-12-13

Mike Dittimore RN, BS, eMBA

About LACIE

- LACIE is a 501 (c)(3) Not for Profit based in Kansas City
- Provider lead – Currently 4 Physicians on BOD
- Cerner Technology Service Provider (TSP)
- LACIE conducts exchange in both Missouri and Kansas
- LACIE one of two HIOs approved in Kansas
- Exchanging data more than 3 years
- LACIE can be embedded into essentially every certified EMR, single sign-on, no moving back and forth from portal to EMR
- All data is stored at Cerner in redundant servers
- Deep robust data in the Greater Kansas City area, and beyond
- Images will be linked to Radiology reports available in LACIE before end of 2013

Provider View: Portal versus Integrated with EMR

Role Based Views in the Portal:

- Demographics = R/T
- Problem List = N/E
- Diagnosis = N/E
- Allergies = N/E
- Medications = N/E
- Provider Reports = R/T
- Lab Orders/ Results = R/T
- Radiology Reports = R/T
- Vital Signs = R/T
- Clinic Visits = R/T

*Viewable data in LACIE is dependent on submitting EMRs capabilities

The screenshot displays a patient's medical record for MERCY MELACIE TESTPT. The record is an aggregate summary from multiple participating healthcare providers. The patient's information includes: Female, 12 Years, DOB: 03/15/2000, HIE ID: 0000117575, PCP: Home Phone: 816-999-9999.

Conditions (Problems) - [Default: All Historical]

Problem	Status	Onset Date	Code	Source
OTITIS MEDIA - UNSPECIFIED	Active	08/24/2010	382.9 (ICD9)	NWHS
Dysfunction of Eustachian Tube	Active	08/24/2010	381.81 (ICD-9-CM)	HRMC
ADHD (Attention Deficit Hyperactivity Disorder)	Active	03/15/1975	314.01 (ICD-9-CM)	HRMC
ABDOMINAL BLEED	Active		626.9 (ICD9)	NWHS

Medications (RX And Documented Historical/Home Medications) - [Default: All Historical]

Medication name	Details	Status	Order Date	Source
Zomig	, Q2-H, Refills: 0	Documented	12/17/2010	HRMC
vancomycin 1 g intravenous injection	, Refills: 0	Documented	05/25/2012	HRMC
vancomycin	1 gm, daily, IV, Refills: 0	Documented	05/25/2012	HRMC
Topamax	, PO, Refills: 0	Documented	12/17/2010	HRMC
prednisONE 2.5 mg oral tablet	2 Tab, BID, PO, Refills: 0	Documented	02/17/2011	HRMC
Ortho Tri-Cyclen 35 mcg oral tablet	1 Tab, daily, PO, Dispense: 28, Refills: 0	Active	03/08/2012	HRMC
Nasoprin Nasal Gel	BID, TOP, Dispense: 0	Documented	03/08/2012	HRMC

Vital Signs / Clinical Results - [Default: All Historical]

Name/Measurement	Most Recent	Previous	Previous	Previous
Systolic Blood Pressure	120 mmHg	132 mmHg [H]	125 mmHg	
Diastolic Blood Pressure	80 mmHg	85 mmHg [H]	90 mmHg [H]	
Height	130.0 cm			
Weight	65.000 kg			
Respiratory Rate	16 br/min	20 br/min	25 br/min	22 br/min
Mean Arterial Pressure	93.33 mmHg			
Temperature Oral	36.8 DegC	37.0 DegC	37.5 DegC	38.0 DegC [H]
Peripheral Pulse Rate	88 bpm	66 bpm	68 bpm	72 bpm

Radiology - [Default: All Historical]

Report Name	Performed by	Date Completed	Status	Source
DXA Bone Density	Groce, Randy	06/30/2010 09:57:00 AM	completed	HRMC

History & Physical - [Default: All Historical]

Report Name	Performed by	Date Completed	Status	Source
History and Physical	Groce, Randy	06/30/2010 09:53:00 AM	completed	HRMC

Discharge Summary - [Default: All Historical]

Report Name	Performed by	Date Completed	Status	Source
Discharge Summary	Groce, Randy	09/29/2010 12:58:00 PM	completed	HRMC

Allergies - [Default: All Historical]

Substance	Reaction	Severity	Status	Source

Current State

Example

R/T = Real Time

N/E = Nightly Extract

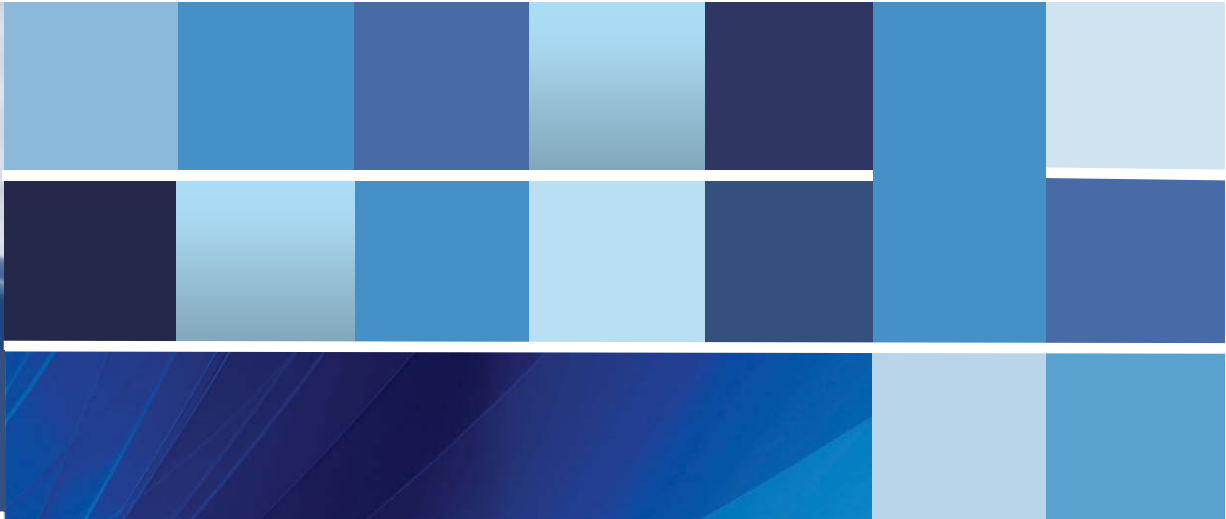
Who Does LACIE Bring Value to and How?

- Hospitals
- Providers
- Clinics
- Ambulatory Care Centers
- Payers
- Home Healthcare
- Long Term Care Organizations
- Employers that provide care
- Pharmacies
- Correctional Facilities
- Reduce Costs:
 - Decrease redundant tests
 - Assist in reduction of readmissions
 - Deep data for analytics
- Efficiency
 - Reduced time and effort locating records
 - Embed access to HIO within native EMR
 - Data to facilitate transition of care

LEWIS AND CLARK INFORMATION EXCHANGE

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www.lacie-hie.com



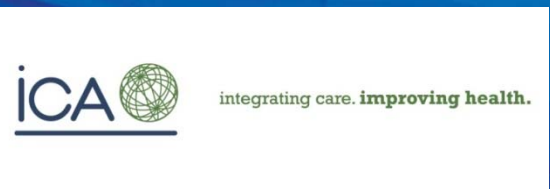
HIMSS Heart of America

June chapter event

KHIN Health Information Exchange



KANSAS HEALTH
INFORMATION NETWORK

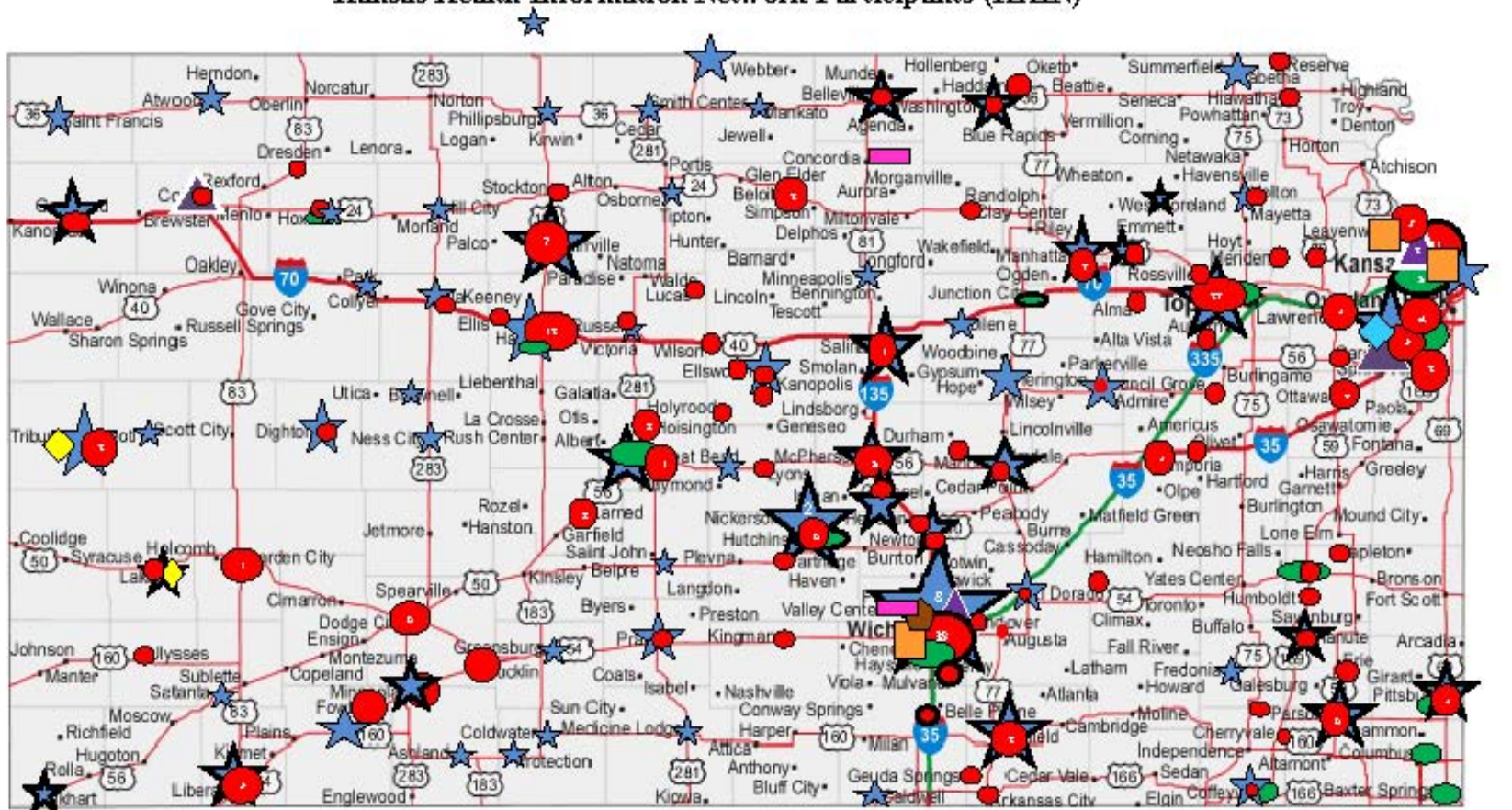











KHIN “Live Sites”

Beloit Medical Center	Beloit	03/13/13
Cheyenne County	St. Francis	01/09/13
ComCare PA	Salina & multi locations	05/15/13
Community Health Center of Southeast Kansas	Pittsburg	11/01/12
Ellinwood District Hospital	Ellinwood	12/04/12
Fredonia Regional Hospital	Fredonia	01/30/13
Grisell Memorial Hospital District #1	Ransom	11/16/12
Harlan County Hospital	Alma	05/14/13
Hays Medical Center	Hays	11/16/12
HCA Wesley Medical Center	Wichita	08/15/12
Hutchinson Clinics	Hutchinson	11/26/12
Jewell County Hospital	Mankato	02/04/13
Kiowa County Memorial Hospital	Greensburg	11/16/12
Konza Prairie Community Health Center	Junction Center	02/25/13
Lane County Hospital	Dighton	02/14/13
Medicine Lodge Memorial Hospital	Medicine Lodge	03/19/13
Memorial Health Systems	Abilene	03/28/13
Mercy Hospital	Moundridge	03/25/13
Minneola District Hospital	Minneola	11/16/12
Osborne County Memorial Hospital	Osborne	12/17/12
Ottawa County Health Center	Minneapolis	12/06/12
Phillips County Hospital	Phillipsburg	01/16/13
Pratt Regional Medical Center	Pratt	12/15/12
Rawlins County Health Center	Atwood	12/17/12
Republic County Hospital	Belleville	12/31/12
Sabetha Community Hospital	Sabetha	12/11/12
Salina Regional Hospital	Salina	05/06/13
Satanta District Hospital	Satanta	11/26/12
Smith County Memorial Hospital	Smith Center	11/26/12
Southwest Medical Center	Liberal	04/01/13
Stafford District Hospital	Stafford	03/04/13
Stormont Vail Hospital	Topeka	05/14/13
Trego County-Lemke Memorial Hospital	Wakeeney	12/17/12
University of Kansas Hospital	Kansas City	03/05/13
Via Christi Hospital on Harry	Wichita	08/15/12
Via Christi Hospital on St. Francis	Wichita	08/15/12
Via Christi Hospital on St. Teresa	Wichita	08/15/12
Via Christi Pittsburg	Pittsburg	04/25/13
Wichita County Health Center	Leoti	03/11/13
Wichita Family Medicine Specialists	Wichita	04/12/13

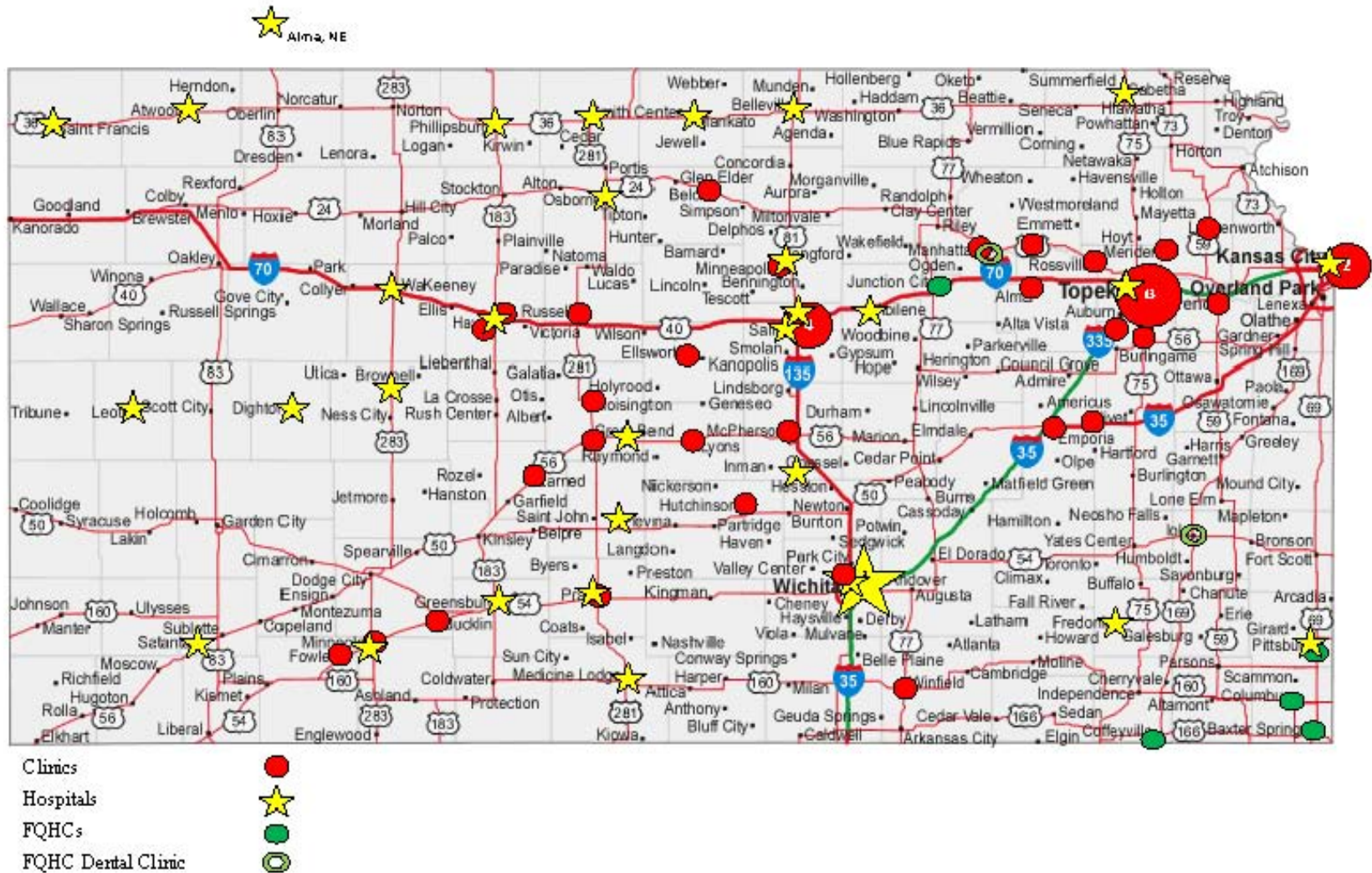


Kansas Health Information Network Participants (KHIN)



- | | | | | | | | |
|---|------------------------------------|---|---------------------------|---|------------|---|-----------------------------------|
|  | Community Health Center/Safety Net |  | Long Term Care Facility |  | Hospitals |  | Clinics |
|  | Community Mental Health Facility |  | County Health Departments |  | Pharmacies |  | Behavioral/Mental Health Provider |
|  | Hospice | | | | | | |

KHIN Online Participants



Note: Larger icons indicate multiple locations within the same city by the same parent company



Stage 2 MU Public Health Measures

Public Health Agencies (PHAs) partner with health information exchanges to facilitate the submission of public health data electronically.



MU2--Immunizations

Successful ongoing submission of electronic immunization data from Certified EHR Technology to an immunization information system for the entire EHR reporting period.



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WELCOME TO
Kansas WebZ





MU 2-Syndromic Surveillance

Successful ongoing submission of electronic syndromic surveillance data from Certified EHR Technology to a public health agency for the entire EHR reporting period.





MU 2 Electronic Lab Results Reportable Diseases

Capability to submit electronic
reportable laboratory results to
public health agencies



KHIN PHR Vendor



<http://www.nomoreclipboard.com/>

1. HISP to facilitate secure communications between patients and providers.
2. Deconstruction of CCD and display of information in patient friendly format.
3. Patient ability to view, download and transfer a summary of care record.
4. Patient added information=PHR
5. Patient educational information
6. Patient view through any web enabled device including mobile phones.
7. Track and graph health measures
8. Emergency access to records for patients.



KHIN
Kansas Health Information Network

The KHIN logo consists of the letters "KHIN" in a large, bold, white serif font, with "Kansas Health Information Network" in a smaller, white sans-serif font below it. The logo is set against a dark blue rectangular background.

CMS FAQs for EHR Incentive Programs

If multiple eligible professionals or eligible hospitals contribute information to a shared portal or to a patient's online personal health record (PHR), how is it counted for meaningful use when the patient accesses the information on the portal or PHR?

This answer is relevant to the following meaningful use measure:

For Eligible Professionals (EPs):

“More than 5 percent of all unique patients seen by the EP or EH during the EHR reporting period (or their authorized representatives) view, download or transmit to a third party their health information.”

For Eligible Hospital and Critical Access Hospital:

If the patient was seen by an EP or discharged from a hospital during the EHR reporting period, the patient would be counted in the numerator for this measure if the patient (or his/her authorized representatives) views online, downloads, or transmits to a third party any of the health information from the shared portal or online PHR. This is regardless of whether the EP or hospital contributed the particular information that was viewed, downloaded, or transmitted by the patient. However, the EP or hospital must have contributed at least some of the information identified in the Stage 2 final rule to the shared portal or online PHR for the patient.

Last updated 2/28/2013

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KHIN Use Case examples

Use Case	KHIN CareAlign Solution
<ul style="list-style-type: none"> • Patient seen at Kansas University Hospital. Patient returns home and is admitted to Hutchinson Regional Medical Center. <p>An easier way for clinic providers to find information about recent hospital stays for their patients?</p>	<ul style="list-style-type: none"> ✓ Hutchinson Regional Medical Center charge nurses plan to utilize KHIN at every admit to help with Med Rec ✓ Provider in the community query KHIN to find out information about recent hospital discharges
<ul style="list-style-type: none"> • Trauma patient is seen at Hays Med, Level 3 Trauma Hospital and is transferred on Saturday evening to Kansas University Hospital, Level 1 Trauma Hospital. <p>Patient medical information is available in real time from Hays Med for clinical staff at Kansas University Hospital.</p>	<ul style="list-style-type: none"> ✓ Emergency Department providers utilize KHIN “Direct” secure messaging or KHIN “Query” to share critical patient information on trauma patients.
<ul style="list-style-type: none"> • Patient is seen in University of Kansas Hospital and receives follow up care at Johnson County Health Partnership. <p>Discharge summary, diagnostic test results and new medication list is available for clinic staff.</p>	<ul style="list-style-type: none"> ✓ Safety Net Clinic staff view data in the exchange to determine patient medical information. Currently over 40 separate participants are live in KHIN, some have many locations.

Contact Information

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