

Meeting Agenda

Joanne Jarvi, Senior Director, Outreach and Market Communications

Welcome & About MiHIN

Mike Taylor, Senior Product Marketing Manager

- What is an ADT?
- Why do we care about ADTs?
- Who creates ADTs, and When?
- Where do ADTs go?
- What does MiHIN's network look like?
- Conformance
- ADTs on a National Scale







Michigan Health Information Network Shared Services (MiHIN)

MiHIN is a non-profit organization that provides technology and services to connect disparate sectors to securely, legally, technically and privately share health information.

An unbiased data trustee, MiHIN does not provide health care services or produce health care data.

Instead, we help convene to share vital health information to advance care, better outcomes and lower costs.



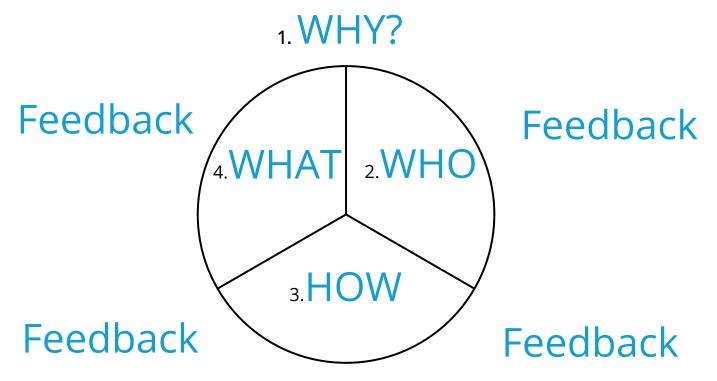






The Group Development Model

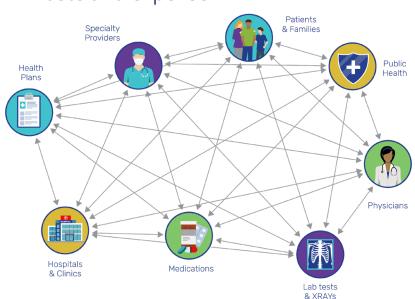
(with special thanks to MHEF and MPHI)





Statewide Health Information Exchange Breaks Down Data Silos and Creates Efficiency

Duplication of effort, waste and expense











Data for Health; Data for Public Good



The Goals of Health Information Exchange

Reduced Inefficiencies

Improved healthcare access

Lower healthcare costs

Better quality of care and health outcomes

Personalized medicine for patients

















44,582

Michigan care providers with Active Care Relationships® through MiHIN, working within

5,637

Michigan care entities

13,136,868

Unique Patient Records

Federal Gov't State Gov't Health Department Health Payers Health Systems **PIHPs**



Clinicians

Care Managers Social Workers

Doctors

Nurses

Dentists

Pharmacists

CARE SEEKERS!





Hospitals Clinics

Practices

CMHs

Hospices

FOHCs

Pharmacies

Physician Orgs

Physician Hospital Orgs





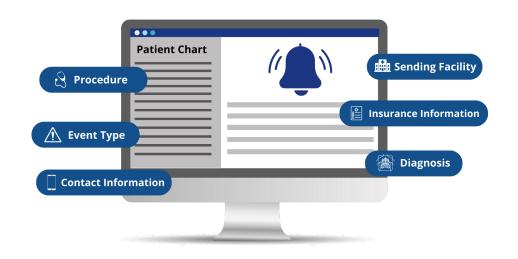




What is an ADT?

ADT stands for Admission-Discharge-Transfer Notification

- A message standard managed by the governing body Health Level Seven (HL7)
- Used to communicate a patient's status at a point in time during an encounter
 - Traditionally associated with hospitals, but not a rule
- When you go anywhere that uses EHR technology to seek care, ADTs are typically created
 - Generated in real-time









An ADT can come from <u>anywhere</u> people seek care



Hospitals



Health clinics



Psychiatric facilities



Skilled nursing facilities



Primary care providers



Home health agencies



Hospices



Pretty much anywhere





- •A01- Admit/visit notification
- •A02- Transfer a patient
- •A03- Discharge Visit
- •A04- Register a patient
- •A05- Pre-admit a patient

- •A22-patient returns from a 'leave of absence.'
- •A23- Delete a patient record
- •A24- Link Patient data
- •A25- Cancel pending discharge

What is an ADT?

- •A06- Change an outpatient to an inpatient•A26- Cancel pending transfer
- •A07- Change inpatient to outpatient
- •A08- Update patient information
- •A09- Patient departing tracking
- •A10- Patient arriving tracking
- •A11- Cancel admit or visit notification
- A12- Cancel Transfer
- •A13- Cancel discharge or end visit
- •A14- Pending admit
- •A15- Pending transfer
- •A16- Pending discharge
- •A17- Swap patients
- •A18- Merge patient data
- •A19- Patient query
- •A20- Bed status update

- •A27-Cancel pending admit
- •A28- Add person data
- •A29- Delete person data
- •A30- Merge person data
- •A31- update person data
- •A32- Cancel patient arriving-tracking
- •A33- Cancel patient departing -tracking
- •A35- Merge patient data- account # only
- •A36- Merge patient data- patient ID and account number
- •A37- Unlink patient date
- •A38- Cancel pre-admit
- •A39- Merge patient -patient ID
- •A21- Patient goes on a 'leave of absence.' •A40- Merge patient- patient identifier list

- •A41- Merge account- patient account number
- •A42- Merge visit- visit number
- •A43- Move patient data- patient identifier list
- •A44- Move account information- patient account number
- •A45- Move visit information-visit number
- •A46- Change patient ID
- •A47- Change patient identifier list
- •A48- Change alternate patient ID
- •A49- Change patient account number
- •A50- change visit number
- •A51- change alternate visit ID
- •A52- Cancel leave of absence for a patient
- •A34- Merge patient data- patient ID only •A53- Cancel patient returns from a leave of absence
 - •A54- Change attending doctor
 - •A55- Cancel change attending doctor
 - •A60-Update allergy data
 - •A61- Change consulting doctor
 - •A62- Cancel change consulting doctor







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What Information Do ADTs Contain?



Where did the message come from?



What time was the message generated?



What was the event type?



Who is the patient?



Who is helping the patient?



Is the patient still alive?



What observations have been made



What diagnosis have been made?



Does the patient have insurance?



What other relevant information?





Why do we care about ADTs?









Preventing Readmissions

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Cost prevention



Outcome improvement



Clinicians can spend more time with existing patients instead of seeing more patients



We want to know where people are seeking care (or where they haven't gone)

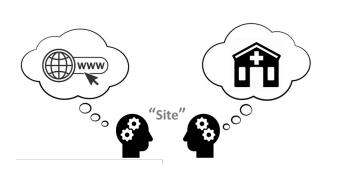




Why are ADTs complicated?



- 1. Semantic vs syntactic interoperability
 - Standard places to put data, but value sets were not clearly defined
 - Example: 'Male' vs 'M' vs '01'
 - Example: 'NA' can mean Native American or Not Applicable
- 2. Need context when you get an alert
 - Where are they?
 - Who are they?
 - What's happened?
 - What are you doing for them?
 - Is this connected to other notifications?
- 3. HL7 defined how to populate each message type but not when to use them
 - Example A01 Admission vs A04 registration followed by A08 update





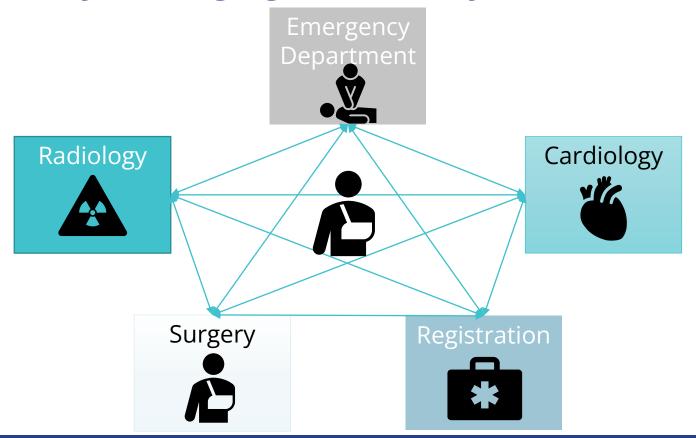






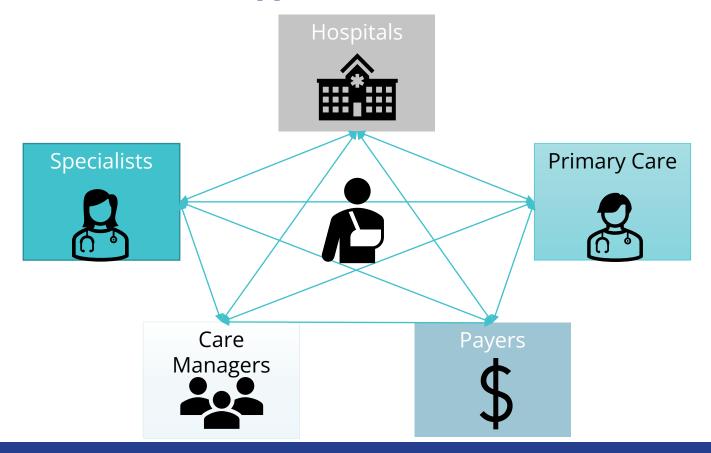


Historically Messaging Within IT Systems in a Hospital



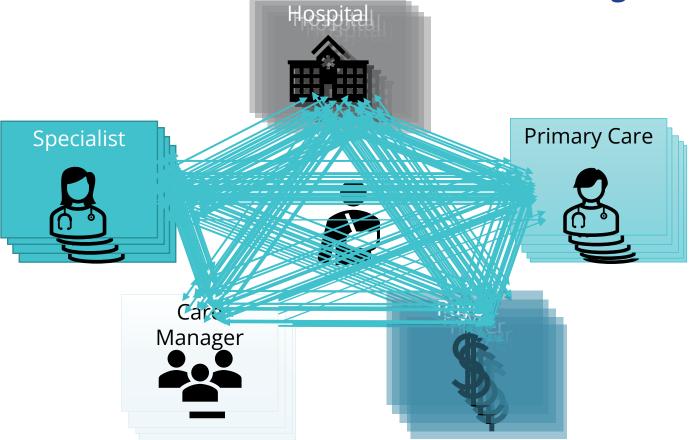


Same Information Can Support Coordination Across Care Settings





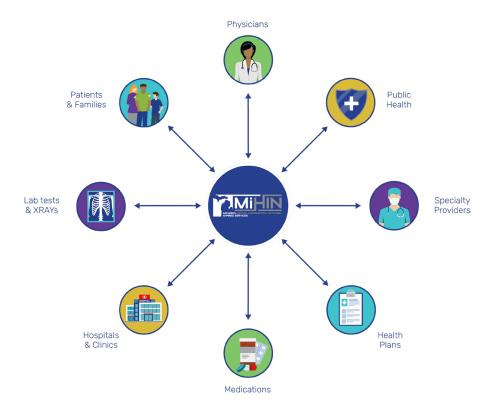
More Point-to-Point Connections Than Manageable







With a Central Connection Point, That Looks Like MiHIN





What does MiHIN do with ADTs and where do they go?







Admission, Discharge, Transfer Notifications

Keeping care team members informed on a patient's major health events



When Tricia goes to the hospital an ADT Notification is sent to a TDSO and then to MiHIN 2

MiHIN checks ACRS and identifies Tricia's care team 3

MiHIN retrieves contact and delivery preferences for Tricia's care team from the Health Directory 4

ADT Notifications are sent to the care team based on electronic addresses and preferences

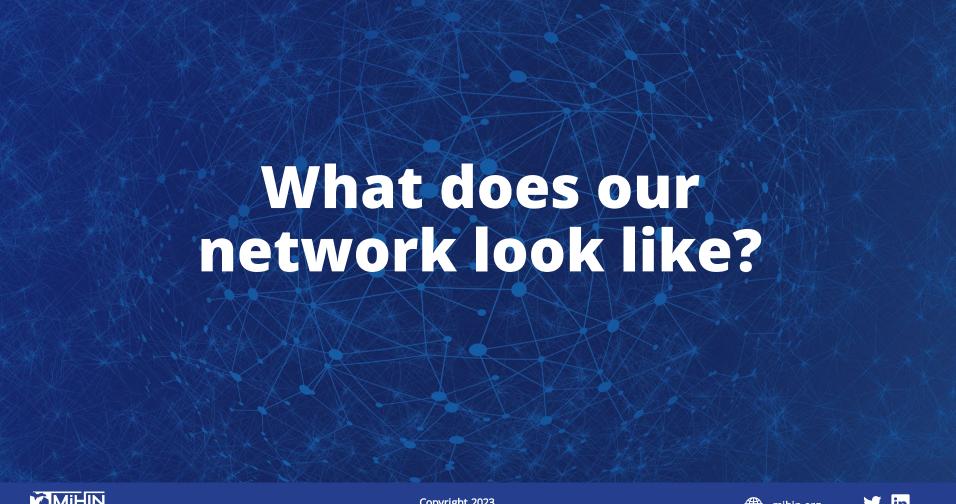


ACRS® = Active Care Relationship Service®

















ADT Metrics

1,400

sending sites including **172** sending hospitals 8,209

ADT receiving organizations Practices, Hospitals, Payers, POs, PIHPs, ACOs, CINs, FQHCs, HHAs, and CMHs 44

ADTs per licensed bed per day

7M

Number of ADTs MiHIN receives per week **12M**

The number of ADTs MiHIN delivers after flowing through ACRS









Conformance









Better Data: Leveraging Incentives for ADT Adoption

One Hospital System Incentivized by a Payer

Conformance reports based on ADT notifications can serve as critical tools to encourage adoption and use of ADT notifications, particularly when tied with incentive dollars from payers, resulting in dramatically improved data quality and compliance.

ADT data quality: April

Abradea quanty. April			
Fields	Fields	Enhanced	
populate	mapped	fields	
100.0%	100.0%	0.0%	
63.6%	53.8%	0.0%	
81.8%	53.8%	33.3%	
90.9%	61.5%	0.0%	
100.0%	38.5%	0.0%	
90.9%	92.3%	0.0%	
54.5%	15.4%	0.0%	
54.5%	15.4%	0.0%	
100.0%	0.0%	33.3%	
90.9%	61.5%	0.0%	
90.9%	76.9%	33.3%	
90.9%	23.1%	0.0%	
63.6%	69.2%	0.0%	
63.6%	92.3%	0.0%	
63.6%	0.0%	0.0%	
63.6%	38.5%	33.3%	
90.9%	92.3%	33.3%	
63.6%	53.8%	0.0%	
90.9%	92.3%	0.0%	
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ADT data quality: December

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100.0%	100.0%	100.0%
100.0%	100.0%	66.7%
100.0%	0.0%	33.3%
72.7%	100.0%	66.7%
100.0%	100.0%	66.7%
100.0%	100.0%	100.0%
90.9%	100.0%	100.0%
100.0%	92.3%	66.7%
100.0%	100.0%	66.7%
100.0%	100.0%	100.0%
100.0%	100.0%	100.0%
100.0%	100.0%	100.0%
100.0%	100.0%	100.0%
100.0%	100.0%	100.0%
100.0%	100.0%	66.7%
100.0%	100.0%	100.0%
100.0%	76.9%	66.7%
72.7%	100.0%	66.7%
63.6%	84.6%	66.7%
100.0%	92.3%	100.0%
100.0%	100.0%	33.3%
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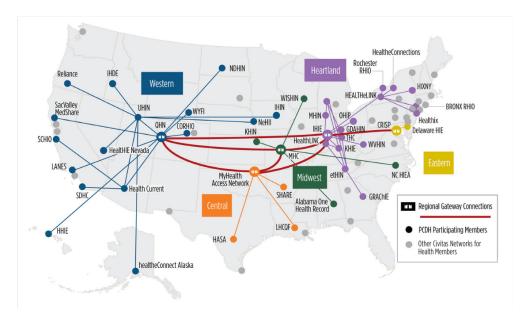












PATIENT CENTERED DATA HOME®



PATIENT CENTERED DATA HOME® IS A REGISTERED TRADEMARK OF CIVITAS NETWORKS FOR HEALTH ASSOCIATION.







Bits & Bytes ADTs Technical Deep Dive

> Wednesday, May 31 12:00-1:00 PM EST







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