The Power of Health Information Exchange for Skilled Nursing Facilities

Session II

MiHIN
MICHIGAN HEALTH INFORMATION NETWORK
SHARED SERVICES

Meet Our Speakers

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Agenda

- Who is MiHIN and What is an HIE?

- Deeper Dive into Admission, Discharge Transfer (ADT) Notifications

- ADT Onboarding Process Overview

- Q&A Session

Who is MiHIN and What is an HIE?

Michigan Health Information Network Shared Services (MiHIN)

MiHIN is Michigan's state-designated entity to continuously improve healthcare quality, efficiency, and patient safety by promoting secure, electronic exchange of health information. MiHIN represents a growing network of public and private organizations working to overcome data sharing barriers, reduce costs, and ultimately advance the health of Michigan's population.

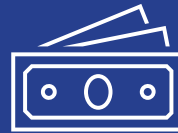# Goals of Health Information Exchange

Reduced inefficiencies

Improved healthcare access

Lower healthcare costs

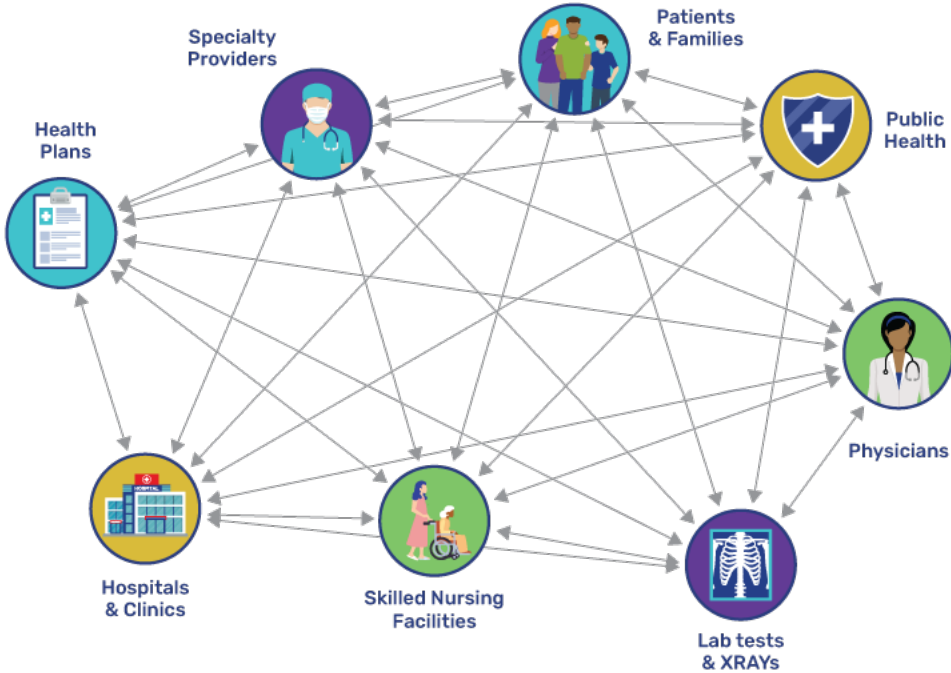Better quality of care & health outcomes

Personalized medicine for patients

Statewide Health Information Exchange Creates Efficiency

BEFORE:
Duplication of effort, waste and expense

NOW:
Connect once to access shared services

SNF P4P Program Basics

Program Design

Eligibility: All licensed SNFs in Michigan contracted with Blue Cross Blue Shield

Enrollment: Automatic

Requirement: SNFs actively send Admit Discharge Transfer (ADT) notification messages to MiHIN

Reward: 4% increase in their per diem rate or cost-per-charge ratio (applies to all BCBSM commercial business, which includes Traditional, PPO, and Blue Card members)

Refer to SNF P4P Guide for further details

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SNF P4P Program Basics

Payment Timeline

Evaluation:
- Completed semi-annually
- First evaluation – February 15th
- Second evaluation – August 15th
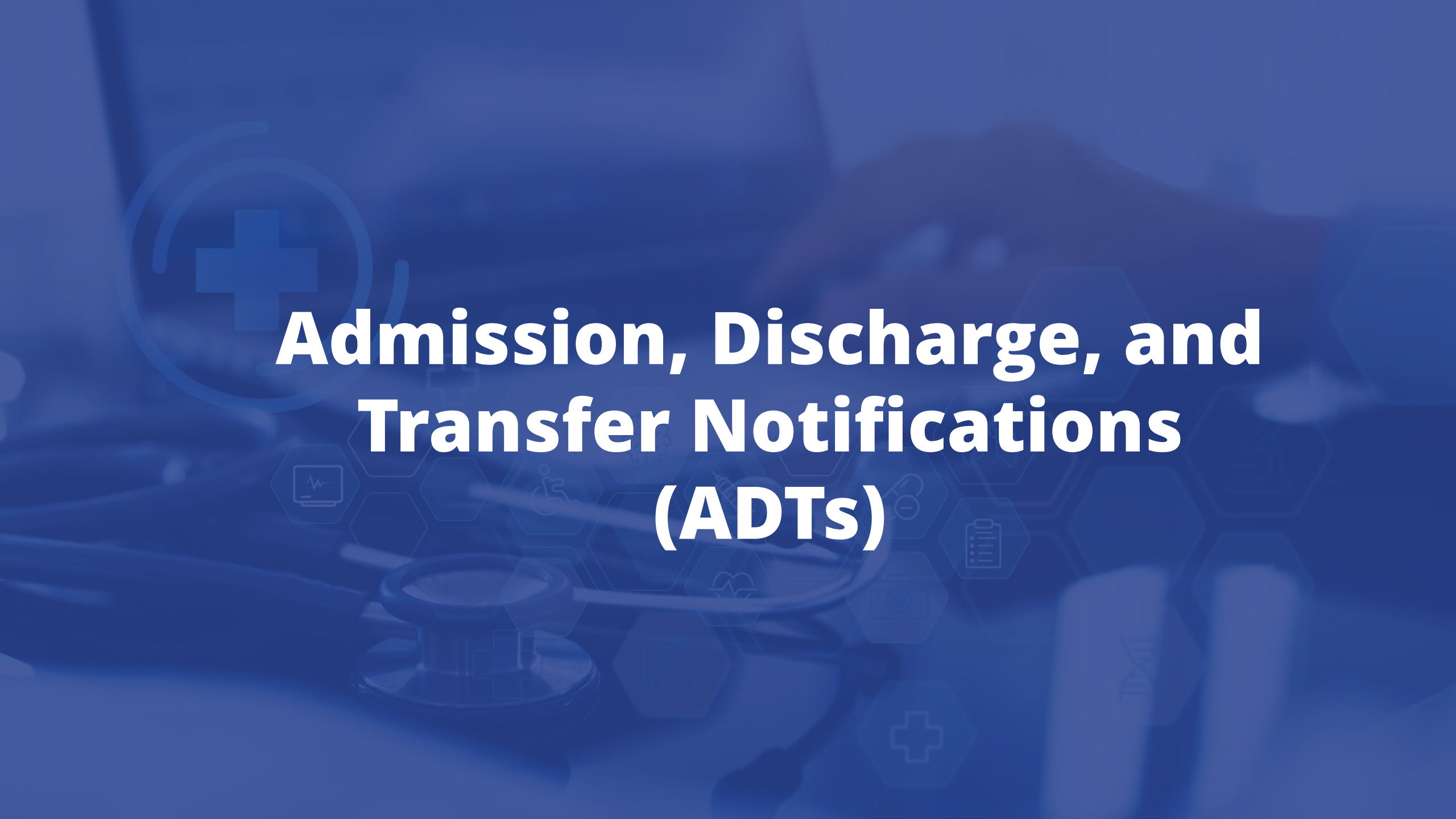- Both evaluations based on snapshot report from the Michigan Health Information Network (MiHIN)

Effective Dates:
SNFs reported by MiHIN as compliant (sending ADTs to MiHIN) receive the reward according the table below

Evaluation Date	Incentive Effective
2/15/2025	4/1/2025 – 3/31/2026
8/15/2025	10/1/2025 – 3/31/2026

Refer to SNF P4P Guide for further details
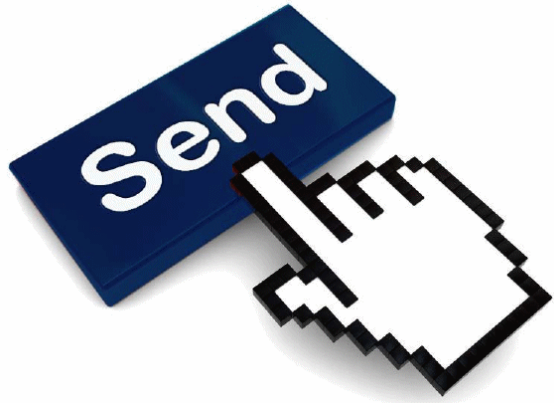
✓ **More Complete Patient History**

✓ **Streamlined Direct Care Coordination**

✓ **Simplified and Safer Transitions of Care**
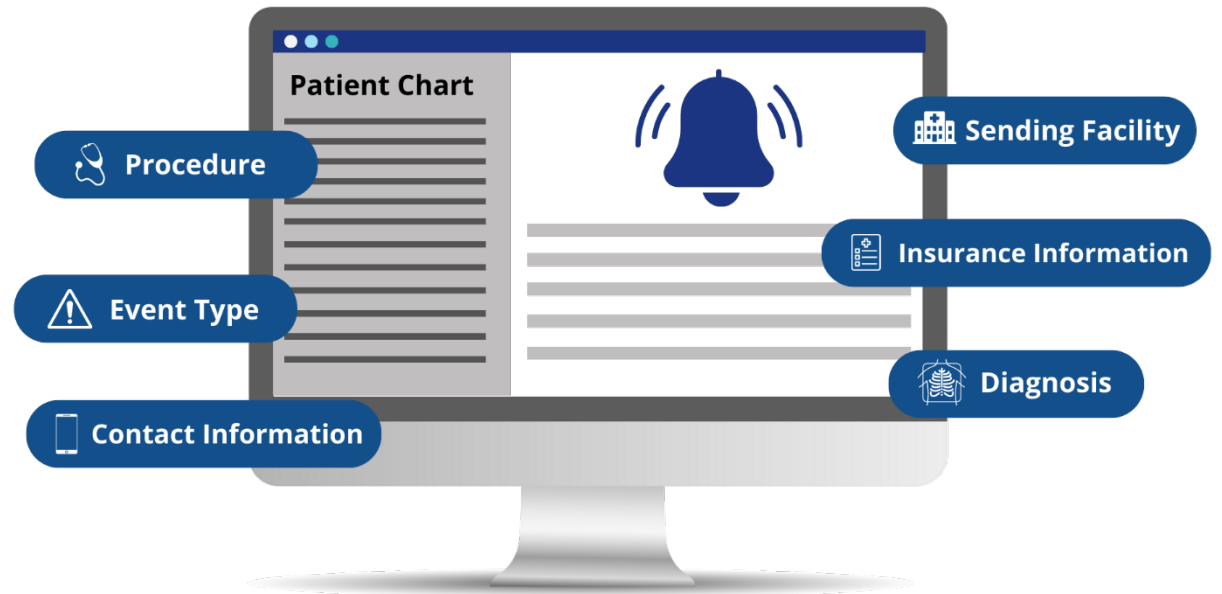
✓ **Improved Medication Reconciliation**

Admission, Discharge, and Transfer Notifications (ADTs)

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

Patient Chart

Procedure
Event Type
Contact Information
Sending Facility
Insurance Information
Diagnosis

BCBSM P4P Compliance Requirements

New Participants
- Agree to MiHIN's Legal Agreements
- Send real-time ADT Notifications to MiHIN on a regular basis
  - Traffic report is updated each month and shared with BCBSM
- Adhere to the HL7 segment requirements

Existing Participants
- Continue sending real-time ADT Notifications to MiHIN on a regular basis
- Adhere to the HL7 segment requirements

Innovative uses for ADTs

Knowing where a patient has been

Care coordination from inpatient to outpatient settings

Address hospital utilization as primary care

Creating patient registry from live feed with certain criteria

Population disease/condition monitoring

Risk Stratification

Social diagnosis monitoring (Z-codes)

Readmission monitoring

Real-time Active Care Relationships

The Learning Health System

Opportunity to send additional relevant information timely to a transition of care

- *Because ADTs are near-real-time, all of these can be done faster than traditional approaches

ADT Event Types

- **A01- Admit/visit notification**
- **A02- Transfer a patient**
- **A03- Discharge Visit**
- **A04- Register a patient**
- A05- Pre-admit a patient
- A06- Change an outpatient to an inpatient
- 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
- A21- Patient goes on a 'leave of absence'
- A22- Patient returns from a 'leave of absence'
- A23- Delete a patient record

- A24- Link patient data
- A25- Cancel pending discharge
- A26- Cancel pending transfer
- 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
- A34- Merge patient data- patient ID only
- 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
- 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
- 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

Path to Production
Sending ADT Notifications

Pre-Production
Exchange Test Data

Production
Exchange Production Data

Data Quality Assurance (DQA)
Conformance Evaluation

ADT Notifications Process

Inbound to MiHIN from a SNF

1

When Anne is admitted to a SNF, an ADT Notification is generated and sent to MiHIN

2

MiHIN identity resolves and attributes Anne and her care team

3

MiHIN confirms the delivery preferences for Anne's care team

4

Anne's ADT Notification is sent to her care team

ADT Notifications Process

Inbound to MiHIN from a SNF

1

When Anne is discharged from a SNF, an ADT Notification is generated and sent to MiHIN

2

MiHIN identity resolves and attributes Anne and her care team

3

MiHIN confirms the delivery preferences for Anne's care team

4

Anne's ADT Notification is sent to her care team

Object Identifiers (OIDs)
Required for Routing Purposes

What is an OID?
- A unique string of numbers used to identify a sending source

How can I obtain an OID?
- HL7's website
  - Nationally recognized
  - Fee-based
- Mi Health System Testing Repository (HSTR)
  - Only recognized in MI
  - Free

Example of an OID:
2.16.840.1.113883.3.00245

OID Reports
Home
Home
Obtain or Register an OID

HL7 International | OID Registry

MDHHS   Register   Log in

Michigan Health System Testing Repository

The Michigan Department of Health and Human Services has been charged with collecting and recording information for eligible hospitals and critical access hospitals (CAHs) attesting to CMS for their participation in the Medicare Promoting Interoperability Program and for MIPS eligible clinicians for Medicare Promoting Interoperability Performance Category Measure for auditing purposes. This system will allow you to enter the required information and inform the public health system(s) of your intent.

Data Elements

Minimum Data Set Required

HL7 Field	Definition
MSH-4.1	Sending Facility SNF OID
MSH-4.2	Sending Facility SNF/Managing Organization OID
PID-5.1	Patient Last Name
PID5.2	Patient First Name
PID-5.3	Patient Middle Name
PID-7	Patient DOB
PID-8	Patient Sex
PID-10	Patient Race
PID-11.5	Patient Zip
PID-19	Patient SSN

HL7 Field	Definition
PV1-7	Attending Doctor ID
PV1-17	Admitting Doctor ID
PV1-18	Patient Type
PV1-19	Visit Number
PID-5.3	Patient Middle Name
PD1-4.1	Patient Primary Care ID
IN1-3	Insurance Company ID
IN1-4	Insurance Company Name
IN1-36	Policy Number

HL7 Mapping Table

What is a Mapping Table?

- A mapping table is a business data table of correspondence for mapping an input set of values to a set of output values according to the SNF's EMR.

Why is a Mapping Table required to send ADT Notifications to MiHIN?

- MiHIN normalizes outbound ADT Data to HL7 standards, therefore, we must know which HL7 values are being sent from the SNF's EMR so we can standardize the EMR value to the HL7 values.

Hospital Defined Fields	MiHIN Defined Fields
Sending Facility (MSH-4)	Gender (PID-8)
Race (PID-10)	Ethnicity (PID-22)
Patient Type (PV1-18)	Death Indicator (PID-30)
Hospital Service (1-10)	Diagnosis Type (DG1-6)
Discharge Disposition (PV1-36)	Patient Class (PV1-2)
	Admission Type (PV1-4)
	Admit Source (PV1-14)
	Insureds Relationship to Patient (IN1-17)

Mapping Table Example

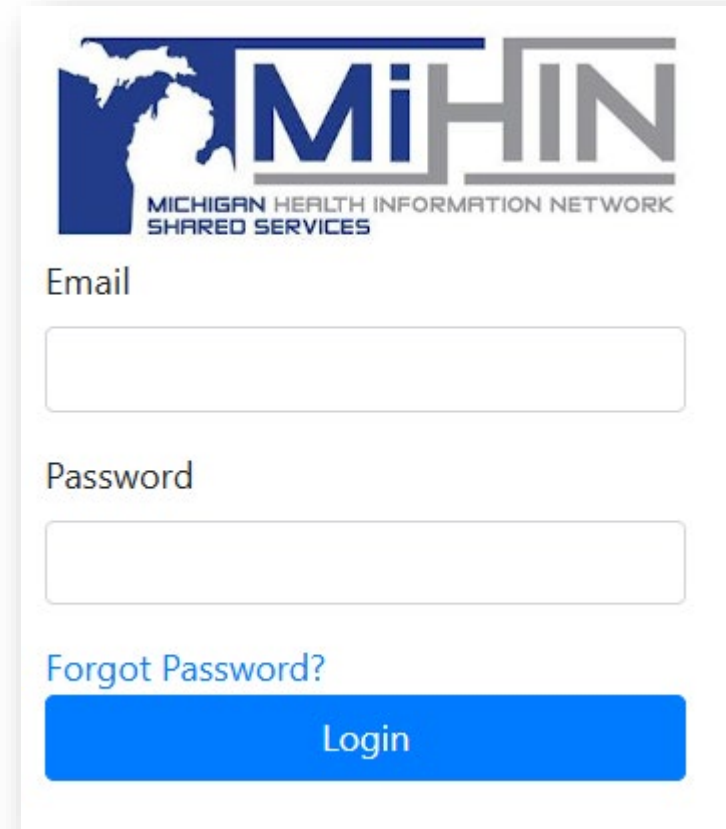| Gender PID-8 (MiHIN defined)			Race PID-10 (hospital defined)			Ethnicity PID-22 (MiHIN defined)		
MiHIN Value	Description	Hospital Value	MiHIN Value	Description	Hospital Value	MiHIN Value	Description	Hospital Value
M	*Male*	*M*	*2106-3*	*White*	*W*	*H*	*Hispanic or Latino*	*Hisp*
F	Female		1002-5	American Indian or Alaska Native		H	Hispanic or Latino	
M	Male		2028-9	Asian		N	Not Hispanic or Latino	
O	Other		2054-5	Black or African American		U	Unknown	
U	Unknown		2076-8	Native Hawaiian or Other Pacific Islander		D	Declined	
A	Ambiguous		2106-3	White		AN	Alaskan Native	
N	Not Applicable		2131-1	Other Race		AR	Arabic	
			MR	Multi-Racial		AS	Asian	
			PR	Patient Refused		CA	Caucasian	
						CHA	Chaldean	
						CHI	Chinese	

Data Quality Assurance (DQA)

What is DQA?
- The purpose is to ensure the sending organization is meeting conformance standards to ensure an appropriate level of data quality.

How will our SNF know if we are in conformance?
- Each SNF will have the opportunity to leverage our MIGateway Conformance Module to review data quality/conformance.

Drill Down ADT Conformance
MIGateway Conformance Module

MIGateway   Home   Care Coordination ▾   Administrative ▾   Support

|||

ADT Conformance Reports

Please select from the following report options:

ADT Conformance Report for SNFs   **ADT Fallout Report**

ADT Mapping Analysis

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Drill Down ADT Conformance
MIGateway Conformance Module

Immediately Following Go-Live

Start Date (Custom Period Only)	End Date (Custom Period Only)
2024/06/01 00:00	2024/06/30 00:00
YYYY/MM/DD HH:mm	YYYY/MM/DD HH:mm

ADT Conformance for SNFs/HHAs Overview: Population Report (Routing Fields)

For each Routing ADT Conformance field and sending facility, reports the frequency at which that field was populated in sent ADT messages for the period.

Facility / Group	ADT Trigger Type	MSH-4	PID-5.1	PID-5.2	PID-7	PID-8	PID-11.5	PID-19	PV1-19	PV1-45	IN1-3	IN1-4	IN1-36
	A01	100.0%	100.0%	100.0%	100.0%	100.0%	95.0%	80.0%	100.0%		0.0%	50.0%	30.0%
	A02	100.0%	100.0%	100.0%	100.0%	100.0%	96.8%	100.0%	100.0%				
	A03	100.0%	100.0%	100.0%	100.0%	100.0%	94.1%	100.0%	100.0%	100.0%	0.0%	100.0%	76.5%

Drill Down ADT Conformance
MIGateway Conformance Module

Post Go-Live

Start Date (Custom Period Only)	End Date (Custom Period Only)
2025/01/01 00:00	2025/01/31 00:00
YYYY/MM/DD HH:mm	YYYY/MM/DD HH:mm

ADT Conformance for SNFs/HHAs Overview: Population Report (Routing Fields)

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Facility / Group	ADT Trigger Type	MSH-4	PID-5.1	PID-5.2	PID-7	PID-8	PID-11.5	PID-19	PV1-19	PV1-45	IN1-3	IN1-4	IN1-36
	A01	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		100....	100.0%	100.0%
	A02	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%				
	A03	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100....	100.0%	100.0%
	A08	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	99.4%	100.0%				

What's Next?

- Contact your account manager or help@mihin.org to learn more about how to start sending ADTs and start exchanging (receive or send or access) critical patient health information through MiHIN

- Additional Resources:
  - ADT Use Case
  - ACRS® Use Case
  - MIGateway Product

- Contact Information
  - Joanne.Jarvi@mihin.org – General Inquiries
  - Megan.Gibbs@mihin.org – Technical Inquiries
  - Bwhittle@bcbsm.com – BCBSM P4P Program

Questions?

THANK YOU

LET'S CONNECT

🌐 mihin.org

🐦 @MiHIN

in linkedin.com/company/mihin

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