Commonwealth of Massachusetts Executive Office of Health and Human Services



ADT Alerts: Understanding the Massachusetts ENS Landscape and Making the Most of ADT Alerts

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Today's Presenters





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Provide an understanding of the Event Notification Services (ENS) landscape to empower organizations to utilize ENS to support their unique needs and provide high quality care to the Commonwealth's patients.









Mass Hlway Overview

What are ADT Alerts?

Understanding the Massachusetts ENS Landscape

Statewide ENS Advantages

Common ADT Alert Utilization Barriers

Making the Most of ADT Alerts

Provider Organization Spotlight: Manet Community Health Center





Massachusetts Health Information HIway (Mass HIway) promotes health information exchange (HIE) by healthcare providers and HIway participants through a variety of policy and technical levers.

The Mass HIway is a program within the Massachusetts Executive Office of Health and Human Services

The EOHHS and the HIway are advised by the Health Information Technology Council made up of consumer, provider, legal and policy, and technology stakeholders

EOHHS contracts with two primary vendors to operate HIway Direct Messaging and offer technical assistance:

- Orion Health provides Direct Messaging implementation and technical support services
- MeHI, the Massachusetts eHealth Institute, supports providers with
 - Account management, consulting services, and outreach and education





Enable health information exchange by HIway users and other healthcare providers regardless of affiliation, location, or differences in technology

HIway Direct Messaging

- Secure method of sending transmissions from one HIway user to another
- HIway connection for Massachusetts Public Health Reporting
- HIway does not use, analyze, or share information in the transmissions and does <u>not</u> currently function as a clinical data repository

HIway Provider Directory 2.0

- Provider Directory listing in-state and some out-of-state providers connected to HIE
- Contains information for 35,000+ HIway Users

Statewide ENS Framework

Network of Event Notification Services (ENS) provided by ENS Vendors certified by the HIway







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Admission, Discharge, and Transfer Alerts or ADT Alerts

 Alerts sent to care providers about their patients' admissions, discharges, and transfers to and from emergency departments, hospitals, and post-acute care facilities

ADT Alert notifications include

- Patient demographic information
- Event details including event type, facility, date/time
- Can contain clinical information like reason for visit and diagnosis







ADT alert notifications are delivered as

- Real-time per patient messages, or
- Scheduled multi-patient summary lists

Subscribing care providers can choose

- What they want to be notified about (e.g. admissions only, discharges only)
- How often they receive the notifications (e.g. real time, daily, twice a day)
- How to receive notification (e.g. direct secure message)

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ABC Medical															
Group	Practice 1	Dr. Jones	12345	Hospital 1	ABC 2345	Joe	A	Test	Male	xx/xx/xxxx	123 Main Street	Philadelphia	PA	12345	XXX-XXX-XXXX
ABC Medical															
Group	Practice 2	Dr. Smith	8765	Hospital 1	XYZ87658	Mary		Test	Female	xx/xx/xxxx	456 Cherry St.	Cherry Hill	NJ	12345	XXX-XXX-XXXX
ABC Medical				Skilled Nursing											
Group	Practice 1	Dr. Jones	91289	Facility 8	PQR8 747	Pam	с	Test	Female	xx/xx/xxxx	934 Lion Cirlce	Havertown	PA	45678	XXX - XXX - XXXX
ABC Medical															
Group	Practice 4	Dr. Miller	837445	Hospital 3	KJD0 384	William		Test	Male	xx/xx/xxxx	874 Ryans Way	Cape May	NJ	45678	XXX - XXX - XXXX
ABC Medical															
Group	Practice 5	Dr. Gonzalez	137894	Hospital 2	UID12374	Amy	ĸ	Test	Female	xx/xx/xxxx	109 Main Street	Langhorne	PA	98345	XXX-XXX-XXXX
ABC Medical															
Group	Practice 6	Dr. Orion	76345	Hospital 10	YHT7645	Karen	5	Test	Female	xx/xx/xxxx	101 Hwy 1	Christiana	DE	12367	XXX-XXX-XXXX



Topics



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ADT Alerts are the end product of an Event Notification Service (ENS). ENS is a specific form of Health Information Exchange (HIE) that occurs after ADT Events.

- An ENS system automates the ADT alert distribution to efficiently and securely send patient information to care providers
- ENS vendors develop these ENS systems and offer services to providers through subscriptions



Ann is also a patient at a pain clinic for a chronic issue after an accident.





To enable utilization of ENS across the state, EOHHS and the Mass HIway developed the Statewide ENS Framework to create an interoperable ENS network.

- Certified ENS Vendors have been certified by the Mass HIway to meet specific functional, data security, data sharing and business criteria
- These vendors have interconnected their ENS systems to serve all care providers in Massachusetts

This means that care providers in the Commonwealth only need to subscribe to a single certified ENS vendor to receive ADT alerts from all Massachusetts Acute Care Hospitals, and other contributing care facilities, to coordinate care after ADT events.









Massachusetts Statewide ENS Framework









🕸 Bamboo Health

Website: <u>bamboohealth.com</u> Contact: Chelsea Tufts Tel: 603-833-8231 Email: <u>ctufts@bamboohealth.com</u>



Website: <u>collectivemedical.com</u> Contact: Customer Support Tel: 801-285-0770 Email: <u>support@collectivemedical.com</u>







CMS-9115-F requires hospitals, including psychiatric hospitals and Critical Access Hospitals (CAH), to send electronic patient event notifications of a patient's Admission, Discharge, and/or Transfer (ADT) to another healthcare facility or to another community provider or practitioner

- The requirement adds to the list of Conditions of Participation (CoP) that hospitals must fulfill to maintain their CMS provider agreement, so they can get CMS reimbursements
- The ADT obligation became applicable in spring 2021
- The purpose is to improve care coordination by allowing a receiving provider, practitioner, or facility to reach out to the patient and deliver appropriate follow-up care in a timely manner

CMS Conditions of Participation (CoP) Notifications

These ADT alerts are sent to providers via Direct message, regardless of whether they are subscribed to an ENS vendor or not, and provider organizations have little control over how these ADT alerts are received.





In response to the CMS requirement, a Consensus Body formed to identify a solution using Direct Secure Messaging for both senders and receivers of these notifications. Forty organizations and individuals representing the care continuum collaborated on an Implementation Guide for Event Notifications via the Direct Standard[™].

EVENT NOTIFICATIONS VIA THE DIRECT STANDARD[™]



BENEFITS

- Shortest path to compliance with CMS ADT Conditions of Participation
- Creates near real-time visibility to status changes of patient's care
- Improves communication between providers about shared patients for a stronger continuum of care
- Empowers care teams to make informed decisions and positively impact patient care
- Includes Context to enable message routing to the appropriate person on the care team

To learn more about adopting or implementing Event Notifications via Direct, visit **bit.ly/ENviaDirect**















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Statewide ENS Framework Advantages









Utilization of ENS and the Statewide ENS Framework will improve timely provider notification when their patients are admitted or discharged from hospitals, EDs, or other care facilities. Utilization will improve care coordination.

Improves Continuity of Care

 ADT notifications will help patients transition between care providers, especially in emergencies. Patients don't need to remember to contact their PCPs concerning treatment received at other facilities, as the information is sent automatically, enabling the PCPs to follow up directly.

Enhances Care Coordination

 Clinicians, care managers, and others in the healthcare community receive real-time ADT notifications so they can quickly assess their patients' medical and social needs, implement support where necessary, and direct patients to the most appropriate care settings.

Enhances Patient Engagement

 Timely ADT alerts and notifications allow care providers to connect more meaningfully with patients, provide better patient education, and guide them to the right care at the right time





Supports Medication Education and Reconciliation

 Information about patients taking many different medications can be lost in transitions of care, and introducing new medications increases patient risk. ENS creates the opportunity to identify drug-drug interactions and ensure the patient gets the education they need to safely manage their meds.

Decreases Repeat Hospitalizations

 Clinicians have more information related to patient hospital utilization patterns, which enables them to direct patients to a care system that better meets their long-term needs than repeat hospital visits.

Reduces Long-Term Medical Costs

 As disease states progress and a patient is left untreated, the odds of patients visiting the emergency room and requiring hospitalization and other expensive interventions increases. Improving care coordination with their care providers reduces avoidable utilization, lowering overall costs of care.

Provides Library of Submitted ADTs

 ADT alerts submitted by Acute Care Hospitals will be archived and available for viewing by any authorized party that may need the information in the future to provide care to the same patients.





Helps Improve Performance/Compliance in Quality Programs

Examples include:

- NCQA PCMH Standards and Guidelines
 - Care Coordination and Care Transition Competencies
- Value Based Care Program Hospital Utilization Measures
 - Readmission rate measures
 - Measures the require follow-up within a certain timeframe after an ED/Admission for certain diagnoses
 - Measures on Unplanned Admissions for Chronic Conditions
- Patient Experience Surveys
 - Proactive ADT follow-up can help improve patients' care experiences









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This past winter, the Mass HIway partnered with the Massachusetts League of Community Health Center to survey Massachusetts Federally Qualified Health Centers (FQHCs) about their ADT workflow challenges. Our specific survey goals included:

- Gain a better understanding how FQHCs are using ADT alerts to support care coordination
- Identify workflow gaps that are prohibiting FQHCs from fully leveraging ADT alerts
- Develop best practice documentation that can be shared to support other FQHCs and provider organizations







Most FQHCs are receiving ADT alerts

EHRs and ENS Vendor Portals are the most common ways that staff are accessing ADT alerts

Half of FQHCs are receiving ADT Alerts via >1 method

Half of FQHCs use criteria to prioritize their ADT follow-up. The ones that do, rely on clinical information.

Staffing capacity and ADT alert format are two major barriers to ADT alert utilization and follow-up

Consistently available clinical information from the ADT would help FQHCs optimize their follow-up workflow





FQHCs' confidence in their ADT alert follow-up workflows

Respondents were asked to rate their confidence in their ADT follow-up workflow from a scale of 1-5 (1 being not confident at all and 5 being very confident).



²⁷ *Data from April 2023 Mass League QI Forum Zoom poll





Barriers:

- Staffing capacity impacts most FQHCs' ability to utilize and follow-up on ADT alerts
- Second to staffing capacity, formatting of ADT alerts was also reported as a barrier
- Other barriers submitted by respondents included:
 - "Most alerts lack diagnosis"
 - "ACO patients only; ADT data not super useful for determining what happened with patient"
 - "Too many and polluted ADT with no priority"
 - "Lack of phones for patients"

What barriers impact ADT alert utilization at your health center? Please select all that apply.







All respondents were invited to share comments or concerns they had related to ADT alerts, regardless of whether their FQHC receives ADT Alerts:

- "ADT alerts are outside the EMR. We receive hospital and ED info inside Epic via Care Everywhere, but this info is incomplete (only comes from other Epic sites) and difficult to manage and distribute the work."
- "ADT alerts are only for ACO patients. ADT alerts are timely but do not contain all information necessary to respond. Given the next ACO waiver, we have to also re-evaluate our ADT alert vendor, and likely implement a different technology that will support all patient ADT messages."
- "[Population health management tool] is inconsistent with timeliness and content"







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Inventory the ENS Alerts coming into your organization

- What types of alerts are you already receiving?
- What is the source of these alerts?
- Which patients are included in these alerts?
- Where are these alerts coming into your organization?

Identify a "primary feed"

- Which ENS alert feed best represents the patient population you want to be tracking?
 - Are there any improvements that need to be made to this feed to make it more inclusive of the patients you need to be tracking?
- Once a primary feed has been identified, this feed can be relied on as your ADT monitoring feed.
 - Other ENS alerts may contain helpful information that can be referenced in tandem to the primary feed, however, the prompt to follow-up with patients can be based on your primary feed





Type of Notification	Type of Messages	Method of Receipt	Patients Included	Things to Consider
ADT Feeds (Subscribed)	ADT Alerts	Certified ENS Vendor Portal, Direct message in EHR, Population Health Management Tool	Dependent on roster being sent to certified ENS Vendor (ACO patients, high risk patients, etc.)	Does your organization have more than 1 ADT feed based on different patient rosters?
CMS Conditions of Participation Messages (Unsolicited)	ADT Alerts	Direct message in EHR	Patients who identify their PCP during their hospital or ED encounter	These alerts will go directly to the provider named as the patient's PCP (therefore not all inclusive)
Directly from Hospital (Organization specific)	ADT alerts, ED and Discharge Reports	Fax, EHR, or portal login	Most likely will only receive from hospitals that your organization has an existing relationship with, and for patients who identify their PCP during their encounter.	These reports will contain all pertinent clinical information, including medication information and discharge instructions





Who	 Which patients do you want included in your ADT roster?
What	 What types of ADT alerts do you want notifications for? (e.g. discharges only) Do you want to receive unsolicited CoP ADT alerts?
Where	 Where do you want staff to review ADT alerts? (e.g. ENS Vendor portal, EHR, population health management tool)
When	 When and how often do you want to receive ADT alerts? (real-time per patient messages, or scheduled multi- patient summary lists)
How	 Customizations and filtering of ADT feeds can be done through a certified ENS Vendor or in a population health management tool





Certified ENS Vendor subscriptions give provider organizations access to historical ADT data through a library of submitted ADTs.

Analyzing historical ADT data can help provider organizations understand trends in their patient populations' ED and hospital utilization and anticipate the needs of their patients.

• Scheduling and operational adjustments can be made based on utilization trend data, to better support patients and reduce unnecessary utilization.



Identifying Trends in Utilization through ADT data



Select a time-range (of at least 1 week) and review ADT utilization from several points in the year for this period to help identify population level utilization trends. Since ADT data is available in real-time, you can monitor success of any improvement initiatives in real-time.

When are patients utilizing the ED the most during business hours? Do you have enough same day appointments available during this time-frame?

What are common reasons for patients unnecessarily utilizing the ED? Do your patients know this is something they could be seen by your providers for? Do your patients know that you have a clinical advice line and/or walk-in clinic available?

What day of the week tends to have the most/least hospital discharges?

Can blocking appointments for discharge follow-up be adjusted to anticipate this?







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Manet Community Health Center is a Federally Qualified Health Center (FQHC) dedicated to providing preventive, primary and non-emergent urgent care to all, regardless of financial circumstance or health insurance coverage status. Manet has been serving the community since 1979 and has three locations in Quincy, one in Hull and one in Taunton.

In addition to primary care, we offer integrated behavioral health and Medication-Assisted Treatment, MAT, access to nutrition and care management services, and onsite access to specialties including vision and cardiology.







Manet Community Health Center Care Coordinator and Care Managers



- Care Coordinator reviews EHR discharge bucket daily (5 days/week)
 - Triages discharges and other documents as appropriate out
 - Care Managers receive in site-specific buckets
- Care Managers review bucket
 - Often have to call for more complete records
 - No ability to download, filter, or prioritize





- Conducted initial pilot using a Plan-Do-Study-Act (PDSA) cycle to determine if risk score was better prioritization of discharges
- If successful with prioritization, can add tiers for triage, decreasing workload of care managers and using Community Health Workers (CHWs) and Medical Assistants (MAs) more
- Five full-time care managers utilized DRVS, a population health management tool, prior to Athena EHR for 2 weeks
 - Manet has an ADT feed integrated into their population health management tool, which offers patient risk scores based on diagnosis information within the EHR
- DRVS training conducted and on-call assistance offered













Successes	Challenges
 Provides a comprehensive list of patients who need follow-up Provides last seen/next appointment Easy to reorganize for optimal dissemination Allows tracking for patients who left without being seen and Against Medical Advice (AMA) Provides "reality check": who was discharged and we did not receive paperwork 	 No ADT feed available from psychiatric facilities/rehabs Diagnosis information from visit not always available/up-to-date Risk score in DRVS is diagnosis- dependent not visit-dependent Athena > DRVS is one-way communication Internal issues with adoption/on- boarding





	 Still the case Behavioral Health staff trained 	
	 Still the case Raised issue with Azara 	
Mak seere net didghosis	Still the caseRe-education and training helped	
	 Still the case EMR Plug-In: much easier access 	
	 Practice and re-education More investment in full roll-out 	













- Increasing usage of DRVS with additional modules and internal promotion of population health applications
- Targeting Left Without Being Seen (LWBS) and Against Medical Advice (AMA) populations
- Using PatientPing risk scores to develop/update registries for care managers and coordinators







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