Emergency Department Event Notification System (EDEN)

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EDEN System

• Detects Medicaid patients entering emergency departments (ED).
• Sends alert to health plans for coordination of care use cases and redistribution to care team members.
• Provides for better patient care and cost savings through many use cases, such as alerting primary care physician (PCP) to a need for follow-up with a patient to prevent readmission to ED.
• Similar, private systems have been created within a few regional Health Information Exchanges (HIEs) and hospital systems.
• Will bring statewide event notification service; initially only for Medicaid patients.
• Approved and funded by Health and Human Services Commission (HHSC) and Centers for Medicare & Medicaid Services (CMS), implementation to begin Q2 of 2016.
• Utilizes hospital HL7 ADT feeds to detect admissions.
• Similar to syndromic surveillance and could use the same connection. Medicaid is working with state and local health departments to enable this.
Admission, Discharge, Transfer (ADT) Messages

- Subset of HL7 healthcare communications protocol.
- Informs systems within the hospital of patient information on admission; one source of basic registration data.
- Mature technology that originated in late ’80s and is ubiquitous in hospital settings; mostly limited to lab results and immunizations in ambulatory clinics.
- Can carry more than just patient demographic data. Elements such as diagnosis can be optionally included.
- An ADT Admit message is generated and broadcast within the hospital immediately upon patient registration. Updated Admit messages are broadcast as more information arrives, such as diagnoses.
ADT Utilization

- ADT tells us who showed up in an ED, where and when.
- Real-time processing supports the widest variety of uses.
- More data, like diagnoses, can be included to support some use cases.
  - For example, diagnoses can help PCPs prioritize follow-up. Also, inpatient admissions could be added.
- Each hospital pushes ADT messages to a common hub.
• The hub must have a list of Medicaid patients and their demographic information.

• Matching is performed, alerts created and pushed to Medicaid Managed Care Organizations (MCOs).

• MCOs should use the alerts for their own purposes and then pass the info along to care team members.
EDEN Benefits

• Eases ED over-utilization, as seen in other states
• Empowers primary care physicians, health homes and behavioral health providers
• Lowers hospital readmission rates
• Provides for increased patient safety and more effective treatment when care team members are able to intervene in acute episodes
• If integrated with an HIE, can provide for push notification of information available to the ED, like care plans
Example Systems

• Other States:
  • Florida Event Notification Service - https://florida-hie.net/ens/index.html

• Each system is unique, but with many goals and methods in common

• HHSC will work with stakeholders to design the best system for Texas
Putting EDEN To Work

• How can your organization benefit from this system?
• The scope of this project ends at delivery of notifications to MCOs.
• Medicaid will influence MCOs usage of these notifications and encourage innovation.
• Community stakeholders should work with Medicaid and its MCOs to tailor this service and ensure MCOs pass notifications to those that can make a difference for Medicaid patients.
• Collaboration must be conducted with respect to HIPAA and other privacy and security regulations.
**EDEN Timeline**

- **Q3 – Q4 2015:** Work with stakeholders to determine details of how ADT data will be transmitted and processed.
- **Q4 2015 – Q2 2016:** HHSC procurement of implementation vendor.
- **Q2 2016 – Q4 2016:** Onboarding of ADT connections.
- **Q1 – Q3 2017:** Testing and soft rollout of notification delivery.
- **Q4 2017:** Estimated full availability of notification system.

* All quarters are referenced as calendar year quarters.
For more information or to express your interest as a stakeholder please contact: jason.phipps@hhsc.state.tx.us