



WELCOME!

AN INTRODUCTION TO HIE IN EMS



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An Introduction to HIE in EMS

*HIE in EMS: Why focus on the
elements of adoption and exchange*

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**BOLD SOLUTIONS FOR
CONNECTED HEALTHCARE**

Agenda

1. What is HIE trying to achieve?
2. Why is HIE important?
3. What are the different technical models of HIE?
4. What are the key issues in HIE?



What is HIE trying to achieve?

If you were designing *health information exchange* from scratch...

Given today's technology, how should medical records be exchanged?



In a perfect world:

- As a **patient**, you can login from any smartphone/computer and see all your medical records
- As a **provider**, you can login from any smartphone/computer and see all your patients' medical records – if allowed by the patient

...but, in our current system...

Healthcare is fragmented



HIE exists to overcome this challenge



So that one day:

- As a **patient**, you can login from any smartphone/computer and see all your medical records
- As a **provider**, you can login from any smartphone/computer and see all your patients' medical records – if allowed by the patient

HIE: A definition

Health information exchange (v.) – ***Secure, effective, and efficient sharing of electronic health data across the boundaries of health care institutions***

- Office of the National Coordinator for Health Information Technology (ONC)

Different meanings of *HIE*

- HIE is a verb and a noun
 - You can *do* HIE, and you can *be* an HIE (or HIO)
- HIEs are run by various organizations
 - State government
 - Non-profits (State Designated Entities)
 - Hospital and hospital systems
 - Accountable care organizations (ACOs)



Why is HIE important?

The value of HIE



The right information, on the right patient, at the right time, in the right place

In a perfect world:

1. As a **patient**, you can **make better decisions** about your own medical care
2. As a **provider**, you can **make better decisions** about your patients' medical care



What are the different technical models of HIE?

More buzzwords: Three ways to *do* HIE

1. **Directed Exchange (*push* – like email)** – Allows providers to send and receive patient information with other providers
2. **Query-Based Exchange (*pull*)** - Enables providers to search and/or request patient information
3. **Consumer-Mediated Exchange (in development)** – Allows patients to aggregate and control the use of their health information their providers

Query-based Exchange Example: PULSE



Patient Unified Lookup System for Emergencies

Peter Fisher ▶

Search

Review

Patient Query

First Name *

Audrey

Last Name *

Hardy

Gender *

Female

Date of Birth *

February

23

1964

SSN

XXX-XX-XXXX

Search Q

Queries (0)

Queried Patient Information

No current queries



What are the key issues in HIE?

1. Clinical Workflow Integration

- *How should HIE fit into providers' clinical workflow?*

2. Privacy, Security, and Patient Consent

- *How do we ensure that exchanged information is secure?*
- *How do we ensure the patient consents to information exchange?*

3. Patient Matching

- *How do we link Jane Smith's record from County General Hospital to Jane Smith's record Sacred from Heart Hospital?*

4. Financial Sustainability

- *Who benefits from HIE?*
- *Who should pay for HIE?*



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THANK YOU

