

Unit 9 - Potential Issues with Adoption and Installation of an **HIT system**

Component 7

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Objectives

- Identify frequently encountered challenges to adoption and implementation of HIT systems
- Propose solutions to common problems in the implementation of HIT systems.
- Design a plan to address barriers to implementation of an HIT system.



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Why Do Systems Fail?

- Systems can "get in the way". Is it useable?
- Lack of the story metaphor
 - Narratives are essential to a patient's episode of illness
 - Poor communication is more often detrimental to patients than lack of knowledge
 - Computers should enable clinicians to capture narratives easily

 The structure of the patient's record strongly influences the ease of information retrieval 		
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Understanding Critical Success Factors

- User Characteristics
 - Cognitive style, personality, demographics situational variables, attitudes, expectations
- System Design Characteristics
 - Hard/software performance, learning, decision-support, usability, GUI
- · Organizational Characteristics
 - organization culture, top level support, commitment



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Common Challenges to Adoption & Integration of HIT

- · Hard to enter data
 - Free text isn't
 - Structured text
 - · Tough on the front end
 - Easier on the back end
- Reading
 - 40% slower on line



"If the computer is used to generate output, the layout and structure of the reports are important as this can influence clinical decisions in sometimes fundamental ways."

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Effect of Presentation Order – "Primacy Effect"

• A: Diabetic Medication X

This medication is effective; it lowers sugar levels. It makes one feel better and boosts energy. It may cause nausea and headache.

• B: Diabetic Medication Y

This medication may cause headache and nausea. It boosts energy and makes one feel better. It is effective; it lowers sugar levels.

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Common Challenges to Adoption & Integration of HIT

- Funding Who pays? Who benefits?
- Workflow and culture (resistance to change) are two key barriers to adoption
- Degree of turnover in healthcare.

Culture Eats Strategy for Lunch

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The Three T's THE THREE T'S OF A SUCCESSFUL EHR IMPLEMENTATION Health IT Workforce Curriculum Version 1.0/Fall 2010

	See Handout								
Table 3 Perceived barriers and related possible interventions									
Perceived barrier		Possible barrier-related intervention strategies							
A	Finance	Provide documentation on return on investment, Show profitable examples from other IMR implementations. Provide financial compensation.							
В	Technical	Educate physicians and support ongoing training. Adapt the system to existing practices. Implement IDM on a module-by-module basis. Link IDM with edizing systems. Promote and communicate reliability and availability of the system. Agraphe third party for support during implementation.							
C	Time	Provide support during implementation phase to convert records and assist. Provide training sessions to familiarize users. Implement a user friendly help function and help desk. Radesgy workflow to achieve a time gain							
D	Psychological	Discuss usefulness of the EMR include rola period Demondrate ease of use. Start with voluntary use, Let follow physicians demonstrate the system, Adapt system to current medical practice.							
E	Social	Discuss advantages and disadvantages for doctors and gatients. Information and support from physicians who are already uses. Ensure support, leadership, and communication from management.							
F	Legal	Develop requirements on safety and security in cooperation with physicians and patients. Ensure DMI system meets these equirements before implementation. Communicate on safety and security of issues.							
G	Organization	Redesign workflow to realize a better organizational fit. Adapt IDMR to organization type. Adapt IDMR to type of medical practice							
н	Change process	Select a project champion, prefeably an experienced physician. Let physicians for representatively participate during the implementation process. Communicate the advantages for physicians. Use incentives. Ensure support, leadership, and communication from management.							
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ToolKits



- AHRQ Emerging Lessons Toolkit:
 - http://healthit.ahrq.gov/portal/server.pt/community/ahrq-funded_projects/654/emerging_lessons/11227
- AAFP: HIT in the Small Office Online Tutorials http://www.centerforhit.org/online/chit/home/cme-learn/tutorials.html
- HIMSS Flyer Getting Started With An EHR
 http://www.himss.org/content/files/GettingStartedEMR_Flyer1.pdf
 ACP: EHR Adoption Road Map and Tools
- http://www.acponline.org/running_practice/technology/ehr/roadmap/
- HRSA Implementation Tool Kit
 - http://www.hrsa.gov/publichealth/business/healthit/toolbox/HealthITAdoptiontoolbox/

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This Completes the Slide Deck for Unit 9

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