Component # 7: Working with HIT Systems

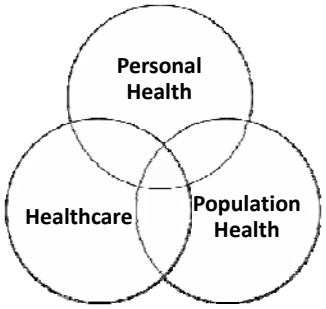
Unit 1: Introduction & Overview: Components of HIT Systems

- Unit 1 will introduce the vocabulary, concepts and common applications of Health Information Technology (HIT) systems
- This unit is composed of two parts:
  - Lecture material
  - Student application of the lecture material in interactive EHR exercises (hands on)

Unit 1 Objectives

- At the completion of Unit 1, students will be able to:
  - Define a system and relate systems concepts to HIT
  - Discuss specific examples of settings where Health IT is used (acute, rural, public health, clinic, office, patient home, etc.)
  - Identify common components of a clinical HIT system
  - Demonstrate beginning level competency in maneuvering the demonstration EHRS

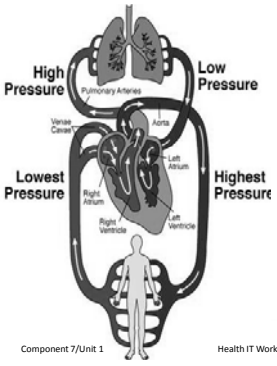
Conceptualizing HIT Use



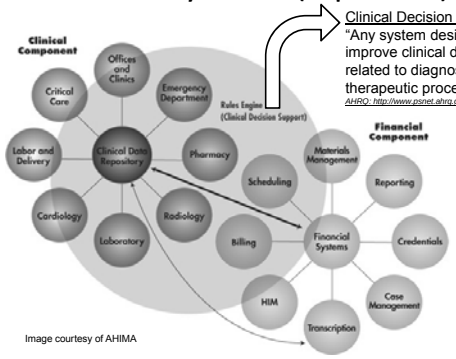
Concepts of General Systems

- Organization of functionally interactive units for the achievement of a common goal.
- Inputs, outputs, and feedback.
- Working to maintain a basic level of equilibrium.

Concepts of General Systems



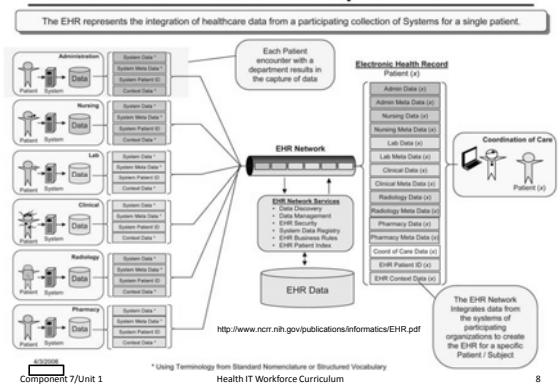
HIT Systems (Inpatient)



Clinical Decision Support:
"Any system designed to improve clinical decision making related to diagnostic or therapeutic processes of care."
AHRQ: http://www.psnet.ahrq.gov/glossary.aspx#C

Image courtesy of AHIMA

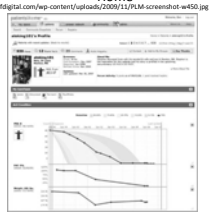
Electronic Health Record – Concept Overview



http://www.ncrr.nih.gov/publications/informatics/EHR.pdf

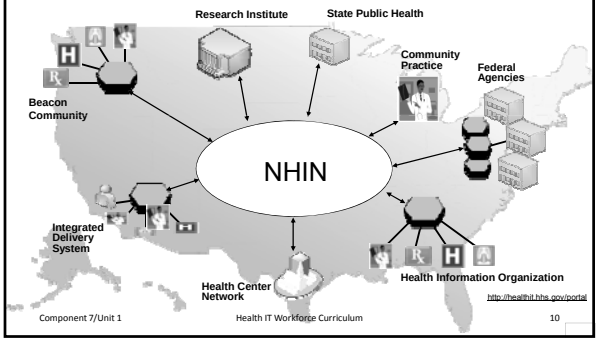
HIT Systems

Home
http://www.doseofdigital.com/wp-content/uploads/2009/11/PLM-screenshot-w450.jpg

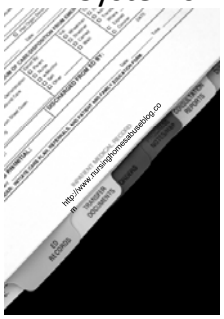


Socially Networked HIT

The "BIG Picture" of HIT Systems



Common Aspects of Clinical HIT Systems



Common Aspects of Clinical HIT Systems

Summing Up Part 1 of Unit 1

- We defined a system and related the concepts to HIT
- We provided examples of HIT in a variety of settings
  - The "H" does not stand only for healthcare
  - Standards are paramount for information exchange
- We identified common components of a clinical HIT system
  - Similarities and differences between paper and electronic records

Part 2 of Unit 1: Hands on Application of HIT Concepts

Exploring the VistA EHRS (4 short videos)

1. **Orientation**
2. **Exploring the Coversheet**
3. **Diving Deeper Into the Tabs**
4. **How to do the Scavenger Hunt**

5. **Getting Your Hands Dirty: Completing the Assignment (*Citrix Access Gateway to the EHRS*)**

You Have Completed the Slide Deck for Unit 1

"Introduction & Overview- Components of HIT Systems" :

Components of HIT Systems