Installation and Maintenance of Health IT **Systems**

. Unit 1a Elements of a Typical EHR System

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What We'll Cover...

- The IOM's Healthcare Improvement Initiative and Technology's Role
 EHR Systems
 Defined
 Then and Now
 Advantages to EHR Systems
 EHR Software Elements
 Client Server Model
 Server Applications vs Client Applications
 EHR Model and Components
 EHR Hardware Components
 Internal ve External
 Clients
 Laptors and Tables
 Laptors and Tables
 Miscellaneous Hardware
 PDAs
 Server
 Se

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"Information technology...holds enormous potential for transforming the health care delivery system..."

"Crossing the Quality Chasm," Institute of Medicine 2001

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A New Health System for the 21stCentury Six Aims for Improving Health Care Quality 1. Safe 2. Effective 3. Patient-centered 4. Timely 5. Efficient 6. Equitable	
A Patient Record System	
 Any patient record system includes: People Data Rules and Procedures 	
- Processing and Storage Devices	
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A Complete EMR System	
 Computerized orders for prescriptions Computerized orders for tests 	
Reporting of test resultsPhysician notes.	
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The EHR System Key Components - Provides "longitudinal health data" on individuals - Provides immediate, yet secure, electronic access - Enhances quality, safety and efficiency of patient care - Makes health care more efficient Component 8/Unit 1a Health IT Workforce Curriculum Version 1.0 Fall 2010 EHR Systems...Then and Now Then... Earlier EHR systems required extremely expensive computer hardware · Core components usually ran on UNIX and often incurred expensive training · Rapid progression of technology meant technology was outdated almost as soon as it was installed Component 8/Unit 1a Health IT Workforce Curriculum Version 1.0 Fall 2010 EHR Systems...Then and Now Now... · Fast, low cost PC systems permeate the workplace often less than \$500 each. · Improved Network protocols make updating and Maintenance easier and more cost effective. · Windows compatible systems reduced training costs. Health IT Workforce Curriculum Version 1.0 Fall 2010

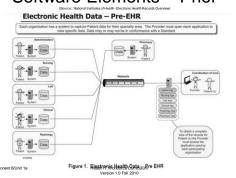
Advantages to EHR Systems

- Better and more accurate documentation
- · More efficient storage/ retrieval of records
- Higher quality of care and fewer errors
- Lower insurance premiums and operating costs

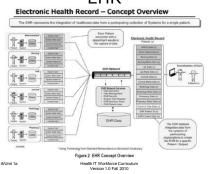
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Software Elements - Prior



Software Elements with EHR



The Client- Server Model Most of today's EHR systems are based on the client –server model Software - The collection of computer programs and related data that provide the instructions telling a computer what to do. Servers - Service Providers Run "server application" software designed to meet client requests Clients - Service Requesters Client software is designed to "request" information from a server and then present that data to the requestor in an efficient manner. A server and client may reside on the same "box"