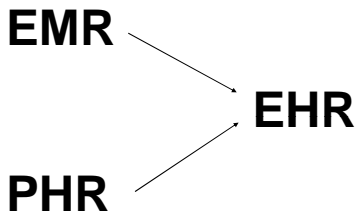


Component 3-Terminology in Healthcare and Public Health Settings

Unit 16-Definitions and Concepts in the EHR

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Electronic Medical Records

- Electronic records that reside with an individual provider
- Ambulatory Users
 - Physicians
 - Dentists
 - Pharmacists
 - Public Health Clinics
 - Opticians
- Acute Care Users
 - Hospitals
 - Emergency Care Centers
 - Surgical Centers

Garets D. Davis M. Electronic medical records vs. electronic health records: Yes, there is a difference. Chicago, IL: HIMSS Analytics, 206,
page 2. Available from: http://www.himssanalytics.org/docs/WP_EMR_EHR.pdf.

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Personal Health Records

“The Personal Health Record (PHR) is an Internet-based set of tools that allows people to access and coordinate their lifelong health information and make appropriate parts of it available to those who need it.”

Markle Connecting for Health. A public-private collaborative. The personal health working group. Final report; 2003 July 1; New York: Markle Foundation, p. 3.

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Functions of Personal Health Records

- Information Sharing
- Information Exchange
- Information Self-management



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Personal Health Record Models

- Payor tethered
- Provider tethered
- Third-Party tethered



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Electronic Health Record

- Consolidates multiple electronic medical and potentially personal health records
- Across multiple providers
- Across life-span

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Components of an Electronic Medical Record

- Clinical Systems
- Pharmacy Systems
- Laboratory Systems
- Admission/Discharge/Transfer Systems (ADT)
- Billing Systems

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Clinical Systems

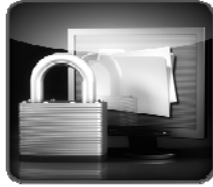
- Clinical Documentation
- Clinical Decision Support (CDS)
- Computerized Provider Order Entry (CPOE)
- Bar-Code Medication Administration (BCMA)

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Data Security and Confidentiality



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Confidentiality

The right of individuals to protect their information or records. Refers to the situation of establishing a relationship and sharing private information.

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Security

Protection of information from accidental or intentional access by unauthorized people, unauthorized modification, unauthorized accidental or intentional destruction.


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Legal Protections


- Health Insurance Portability and Accountability Act (HIPAA)
 - HIPAA Privacy Rule
 - HIPAA Security Rule
- Patient Safety Rule
- Enforced by Office for Civil Rights



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Maintaining Security

- Uninterrupted power supply
- Back-ups
- Mirror systems
- Off-site data storage
- Disaster recovery plans



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Maintaining Confidentiality

- Authentication

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Maintaining Confidentiality

- Authentication
- Audit Trails

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Maintaining Confidentiality

- Authentication
- Audit Trails
- Firewalls

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Maintaining Confidentiality

- Authentication
- Audit Trails
- Firewalls
- Encryption

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Maintaining Confidentiality

- Authentication
- Audit Trails
- Firewalls
- Encryption
- Confidentiality Statements

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Hardware and Software Requirements for Electronic Records



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Software

- Legacy
- Off-the-shelf
- Vanilla systems
- Home grown
- Best of breed



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Types of Networks

- A network is a system of multiple computers that share information virtually
- Information is stored and retrieved from data repositories on computers called servers
- Smart terminals
- Dumb terminals
- Wireless

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Data Entry

Devices

- Central Processing Units (CPU)
- Tablets
- Slim Clients
- Personal Digital Assistants (PDA)

Locations

- Nurses Station
- Computers on Wheels
- Point-of-care

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Summary

- Electronic record systems require
 - System network
 - Application software
 - Data entry hardware
- Confidentiality and security of patient data are maintained through precautions
 - Legal
 - Hardware
 - Software

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