Curriculum Development
Centers Program

Awardee of The Office of the National Coordinator for
Health Information Technology

Component 6 - Health Management Information Systems

Unit 9-2
Administrative, Billing, and
Financial Systems

Objectives

- Discuss the core elements of a Master Patient Index (MPI)
- Describe the components integral to a Unique Patient Identifier (UPI)

Patient Management and Billing

- Systems that support patient management functions
  - Example
    - Patient identification
      - Master patient index

Vogel, LH, Perreault, LE., Management of Information in Healthcare Organizations, Shortliffe, EH. editor, Biomedical informatics: computer applications in health care and biomedicine. 3rd Edition. 2006

Master Patient Index (MPI)

- An index referencing all patients known to an area, enterprise or organization
- Synonyms
  - Patient Master Index (PMI)
  - Master Person Index
  - Enterprise Master Patient Index (EMPI)

http://en.wikipedia.org/wiki/Master_Patient_Index

Master Patient Index

- AHIMA definition:
  - List or database created and maintained by a healthcare facility to record the name and identification number of every patient who has ever been admitted or treated in the facility

Pocket Glossary Health Information Management and Technology, AHIMA

Purpose of the MPI

- Provides the index, location of, and access to a patient's EHR in an enterprise
- Facilitates intraoperability and the accurate creation of a longitudinal record
- Ensures accurate and complete linking of EHRs for HIE

Reconciling and Managing EMPIs, AHIMA

Purpose of the MPI

- Establishes a streamlined governance process
- Accurately matches persons being registered for care with their existing medical records

Reconciling and Managing EMPIs, AHIMA

Core Elements of a MPI

- Person name
- Alias/previous/maiden names
- Date of birth
- Address
- Telephone number
- Health record number

AHIMA, 2010

Core Elements of a MPI

- Account/visit number
- Name of attending physician
- Admission/encounter/visit date
- Discharge or departure date
- Patient disposition

AHIMA, 2010

Core Elements of a MPI

- Marital status
- Gender
- Race
- Emergency contact name

AHIMA, 2010

Unique Patient Identifier (UPI)

- Value permanently assigned to an individual for identification purposes
- Unique across the entire national healthcare system
- Not shared with any other individual

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Functions a UPI Must Support

- Identification of an individual
- Identification of information
- Accurate identification functions
- Reduce healthcare operational cost and enhance the health status of the nation

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Components Integral to UPI

- An Identifier scheme
- Identification information
  - Permanent data segment
  - Longitudinal data segment
  - Health service data segment

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Components Integral to UPI

- Index
  - Organizational MPI
  - Enterprise-wide MPI
  - Registry MPI
- Information from previous episodes of care and different sites of care

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Components Integral to UPI

- Mechanism to hide or encrypt the Identifier
- Technology infrastructure to search, identify, match, encrypt, etc.
- Administrative infrastructure including the Central Governing Authority

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Processes Integral to Patient Identification

- Scope of access
  - Within a single organization
  - Enterprise wide access
  - Nation wide access

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Summary

- Definition and core elements of a master patient index
- Current trends in establishing a national or unique patient identifier