

Unit 4: The Effective HIT System

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Unit 4 Objectives

- Identify characteristics of an effective HIT system.
- Define and provide examples of how evidencebased practice can be supported in HIT Systems.
- Define and cite examples of usability, configurability, scalability and reliability in HIT systems.
- List and contrast different types of reports/queries (predefined vs. ad hoc) required for internal and external reporting.

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Effective HIT

- Integrated/Interactive exchange
 - Patients, providers, government agencies, insurers
 - Increase of overall quality, safety, efficiency, decreased costs, & increased patient acc
- · Improved public health
 - Early detection of outbreaks
 - Tracking & evaluation in chronic diseases
 - Post-marketing surveillance of medications
 - Evaluation/reimbursement based on value.

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Characteristics of Effective HIT

- Flexible
- Adaptable
- Configurable & Agile
- Dependable/Reliable
- Useable
- Scalable



Image Source: http://upload.wikimedia.org/wikipedia

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Facilitates "Best Practices"

- Evidence Based Practice (EBP)
 - the integration of best-researched evidence and clinical expertise with patient values (IOM)
- · Guideline-enhanced Care
 - http://www.guideline.gov/about/about.aspx



Medication Reconciliation

- Process of determining what medications patient is taking
- Med errors
 - Admissions
 - Transfers
 - Discharge
- Polypharmacy
- Bar Code Medication Administration (BCMA)
 & e-MAR
- E-prescribing & digital medication records

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Supporting Workflow

- HIT organizes work, integrates knowledge, supports decision-making
- Decreased memory demands
- · Routing and prioritizing





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Supporting Workflow

- · Automates tedious aspects
- Effective use of resources balancing supply and demand





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Supporting Workflow

- Data extraction & reporting
 - Ad hoc & pre-defined



- User centered design
 - "a design and evaluation process that pays particular attention to the intended users, what they will do with the product, where they will use it, and what features they consider essential"

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Reviewing the Objectives

- Identify characteristics of an effective HIT system.
- Define and cite examples of usability, configurability, scalability and reliability in HIT systems.
- Define and provide examples of how evidence-based practice can be supported in HIT Systems.
- List and contrast different types of reports/queries (predefined vs. ad hoc) required for internal and external reporting.

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This completes Unit 4 "The Effective HIT System"



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