### Introduction to QI and HIT

Unit1.2: Relationship of QI and HIT

Health IT W

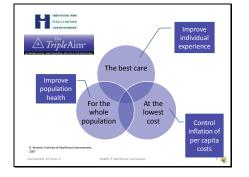
### Slide 2

### Objective

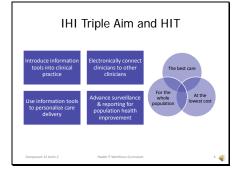
 Analyze the ways that HIT can either help or hinder quality improvement

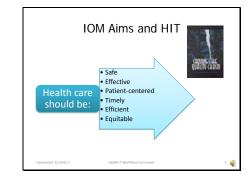




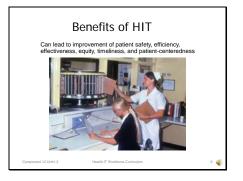


Slide 5





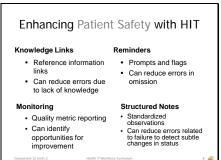
Slide 6





### Enhancing Patient Safety with HIT CPOE e-MAR · Computerized provider Computerized medication administration record order entry · Can reduce errors in drug prescribing and Can reduce errors in dosing drug administration Medical Device Interface e-Allergy List Computerized allergy list · Automated vital sign capture Can reduce errors in preventable adverse drug events Can reduce errors in transcription

### Slide 8



Slide 9

### 

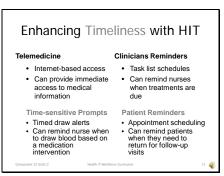


### Enhancing Patient Centeredness with HIT

### Knowledge access Patient portal

- Patient-friendly web sites
   Can provide medical
   information and access to
   support groups
   Tailor to Patient Needs
   Disease management
- Clinical decision support
   Can tailor information according to patient characteristics and condition
   Customized health education and disease management messaging
   Can enable selfmanagement

### Slide 11



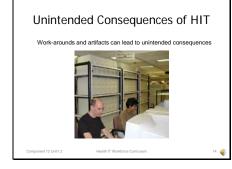


# <section-header><section-header><section-header><section-header><section-header><section-header><section-header><list-item><section-header><list-item><section-header><list-item><section-header><list-item><list-item><list-item><section-header>



## <section-header><section-header><section-header><section-header><list-item><section-header><section-header><list-item><list-item><section-header><section-header><section-header><list-item><section-header>

### Slide 14





### Work-arounds

### Defined Examples Alternative processes that help workers avoid demands placed on them that they perceive to be unrealistic or harmful Unanticipated behaviors directly or indirectly or indirectly areas the HR due to lack of standardization of outsets work Significant events located in multiple locations in the system impedes on's work

### Artifacts Defined Man-made tools that aid or enhance the worker's thinking abilities Developed to meet the demands of an activity

### Slide 17

### HIT & Workarounds





4

Slide 18

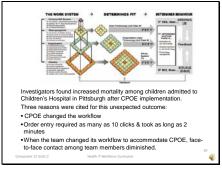
The next three slides describe work-arounds caused by poor HIT design.



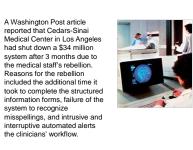


interfered with their workflow, nurses devised workarounds, such as removing the armband from the patient and attaching it to the bed because the barcode reader failed to interpret bar codes when the bracelet curved tightly around a small arm.

### Slide 20



Slide 21



4

### Summary:

- When designed well and used as intended, HIT can
- Improve safety, effectiveness, efficiency, equity, timeliness, and patient-centeredness of care
   Work to accomplish the best care for the whole population at the lowest cost

Health IT W

 When designed poorly and subject to work-arounds, HIT can result in unintended adverse consequences

22 🥡