Data Quality Improvement

Unit 11.3: Common Causes of Insufficient Data Quality & Design Recommendation

Component 12/Unit 11

Health IT Workforce Curriculum Version 1.0/Fall 2010

Objectives

At the end of this segment, the student will be able to:

- Discuss common causes of data insufficiency
- Describe how health information technology (HIT) design can enhance quality

Component 12/Unit 11

Health IT Workforce Curriculum Version 1.0/Fall 2010

Causes of Insufficient Data Quality

Systematic

- Unclear or ambiguous definitions
- Incomplete or unsuitable data
- Violations of data collection or processing protocols
- Poor screen /interface design
- Programming errors
- · Lack of data quality checks

Component 12/Unit 11

Health IT Workforce Curriculum Version 1.0/Fall 2010

Component	12/Unit	11

Causes of Insufficient Data Quality

Random

- Inaccurate transcription or typing errors
- Data overload
- · Motivational or turnover

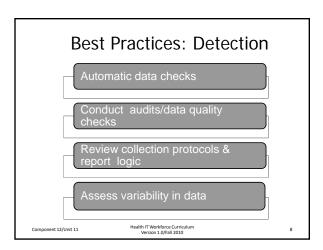
Component 12/Unit 11

Health IT Workforce Curriculum Version 1.0/Fall 2010

Data Quality Enhancement Opportunities Prevention Create best possible quality through design Detection Inspect for potential or real quality issues Improvement Take action for ongoing quality improvement Take action for ongoing quality improvement

Best Practices: Prevention Identify required data elements Develop a data dictionary Optimize data capture Establish collection guidelines Component 12/Unit 11 Health IT Workforce Curriculum Wersion 15/Fall 2010







Summary

- Clinical data drive health care decisions.
- Poor data quality have a significant negative impact on healthcare outcomes
- Data quality is multi-dimensional
- Insufficient data are linked to a number of systematic and random causes.
- HIT professionals can use best practices enhance data quality