



Unit 5: Objectives

- Define usability and its relationship to HIT systems.
- Explain the impact of HIT usability on user satisfaction, adoption, and workarounds including error rates and unintended consequences.
- Provide alternatives to HIT usability bottlenecks.

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Usability Defined

- "the extent to which a product can be used by specified users to achieve specified goals with effectiveness, efficiency and satisfaction in a specified context of use." *ISO 9241-11*
- Usability is the study of the ease with which people can employ a particular tool or other human-made object in order to achieve a particular goal. *Wikipedia*









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- Understanding the user base Mobile workers
 Highly disruptive & stressful situations
 Cognitive overload

 - Restriction of physical space portability important
 Time compression

 - Frequent turn-over (patients & providers) - Workarounds are common

What happens?

- User satisfaction declines & frustration increases
- Increase resistance failure to adopt
- Workarounds
- Unintended consequences



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Examples of Poor HIT Usability

- Overly cluttered
- Poor use of screen space
- Inconsistency in design
- Unsortable lists
- Hard to read or annotate
- Lack of safeguards
- Not intuitive





Why It Matters

- HIT intent is to increase ease of use, safety, efficiency and reduce error
- Increasing pressure
- Rushing towards meaningful use
- "Quicker and Sicker"



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Strategies for Bottlenecks

- Know your user
- Educate
- Assure easy access to workstations/devices
- Advocate for integrated systems
- Prepare for process change & learning curves
- Systems must support entire care team



Reviewing the Objectives

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