

Component 11: EHR Implementation In Specific Settings

Unit 9: EHR Implementation in Specific Settings Lecture 4

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Home Care Technologies

- Helping patients to manage diseases where they reside
- Provide health care providers with data to manage care from a distance
- Improve the care of the patient while reducing the cost of care

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2

Technologies Used in Home Health

- Web-based Patient communities
- Personal health records
- Robotic applications
- Smart homes
- Electronic messaging with health care provider

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3

Issues Related to Interoperability

- Health information exchange
- Technical standards for infrastructure
- Security of information meeting state and federal legislation
- Healthcare privacy meeting state and federal legislation

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4

Research on Computer Games To Detect Cognitive Issues In Home Health Setting

- Jimison, H, Jessey, N, McKanna, J, Zitzelberger, T, Kaye, J. Monitoring Computer Interactions to Detect Early Cognitive Impairment in Elders: Proceedings of the 1st Distributed Diagnosis and Home Healthcare (D2H2) Conference; 2006, April 2-4; Arlington, Virginia.
 - This presentation described:
 - Development of software
 - Participant recruitment
 - A survey about computer anxiety
 - Training methods
 - Use of keyboard and mouse analysis related to cognitive performance

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5

Research on Games continued

Jimison H, Wild, K, Bissel P, Pavel M, McKanna J, Williams D. Embedded assessment of cognitive performance with elder's use of computer games in a residential environment: Proceedings of the Workshop on The Cognitive Science of Games and Gaming; 2006, July; British Columbia, Canada.

- Research found that elders are a growing group of new computer users
- Project tried to make assessment of cognitive impairment enjoyable for participants
- Games discussed included word games, memory games, matching games, a specific kind of solitaire game called FreeCell

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6

Research on the use of an Electronic Pillbox in Home Health Setting

- Hayes R, Hunt J, Adami A Kaye J. An electronic pillbox for continuous monitoring of medication adherence: Proceedings of the 27th Annual International conference of the IEEE Engineering In Medicine and Biology; 2006 Aug 30-Sept 3; New York.
 - Used in home health care to give timely alert to resident to take medication
 - Research focused on detecting when medication was not taken in order to provide intervention
 - Used a device called MedTracker

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7

Will Home Health Technology Grow with Aging Population?

- In the research described in the last several slides, the consensus is that it will grow because of the growth of the aging population
- As technology grows, we must continue to be aware of the patient rights to privacy and security of information and the state and federal legislation that mandate this.

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8
