

Component 6 -Health Management Information Systems

Unit 6-2 Patient Monitoring Systems

This material was developed by Duke University, funded by the Department of Health and Human Services, Office

Objectives

- Discuss how Telehealth communication technologies support clinical care
- Discuss the effectiveness and economic benefit of Telehealth
- Examine how smart technology in the home and remote links to health information systems can enhance the quality of patient care

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m-Health Technology

- · Patient monitoring systems
- Telehealth

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Telehealth

- Health Resources and Services Administration's definition:
 - "Use of electronic information and telecommunications technologies to support long-distance clinical health care, patient and professional health-related education, public health and health administration."

http://www.hrsa.gov/telehealth/default.htm

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Telehealth

- · CMS' definition:
 - "Telehealth (or Telemonitoring) is the use of telecommunications and information technology to provide access to health assessment, diagnosis, intervention, consultation, supervision and information across distance."

http://www.cms.gov/telemedicine/

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Telehealth

- American Telemedicine Association's definitions:
 - Telehealth/Telemedicine
 - Telematics
 - Telemonitoring

http://www.americantelemed.org/files/public/standards/glossaryofterms.pdf

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How Telehealth Supports Clinical Care

- Long-distance clinical health care
- Patient and professional health-related education
- Public health and health administration

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Telehealth

- · Long-distance clinical health care
 - Applications
 - Benefits

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Telehealth

- Patient and professional health-related education
 - Applications
 - Benefits

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Telehealth

- · Public health and health administration
 - Applications
 - Benefits

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Effectiveness and Economic Benefits of Telehealth

- · Greater access to care
- Reduction in the number of interventions required
- Eliminate unnecessary visits to the home or emergency room
- · Easier access to specialists' advice

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Effectiveness and Economic Benefits of Telehealth

- Availability of physicians if needed to physician extenders
- Added capability of providing continuous care
- · Increased availability of education

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Telehealth

- · Characteristics
 - Well integrated into existing procedures
 - Use existing infrastructure where possible
 - Provide obvious improvement over alternative mechanisms

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Telehealth in Use

- Veterans Administration Office of Care Coordination's (OCC) Home Telehealth (HT) Program
 - Placing medical devices in patient homes
 - Capturing various measurements
 - Sending measurements to server within the VA network and then to VHA systems were VA providers view them

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Role of Smart Technology in the Home

- Telehealth
- · Remote patient monitoring

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Smart Technology in Use

- Diabetes self management
 - Smart phones
 - Application software

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Summary

- Telehealth supports clinical care
- Telehealth has many benefits
- Smart technology in the home and links to health information systems

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