Health Management Information Systems

Unit 6
Patient Monitoring Systems

Objectives

- Discuss how telehealth supports clinical care with communication technologies
- Discuss the effectiveness and economic benefit of telehealth
- Examine the role of smart technology in the home and links to health information systems

m-Health Technology

- Patient monitoring systems
- Telehealth

Telehealth

- Health Resources and Services Administration 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

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/
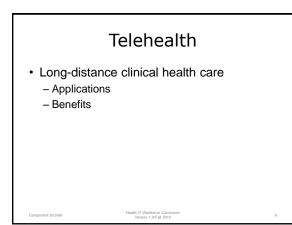
Telehealth

- American Telemedicine Association Definitions
  - Telehealth/Telemedicine
  - Telematics
  - Telemonitoring

http://www.americantelemed.org/files/public/standards/glossaryofterms.pdf
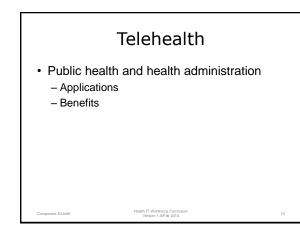
How Telehealth Supports Clinical Care

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

Telehealth

- Long-distance clinical health care
  - Applications
  - Benefits

Telehealth

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

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 of 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

Role of Smart Technology in the Home

- Telehealth
- Remote patient monitoring

Smart Technology in Use

- Diabetes self management
  - Smart phones
  - Application software

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Summary

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

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