Telemedicine

The US Institute of Medicine defines telemedicine as “the use of electronic information and communications technologies to provide and support health care when distance separates the participants.”
Teleconsultation
How does a medical consultation become a telemedicine consultation?
Goals of Teleconsultation

• Increase access to specialty care  
  ➢ rheumatology

• Confirm diagnosis  
  ➢ polymyositis

• Assist in triage  
  ➢ cervical spine injury

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What Makes a Good Teleconsultation?

• Complete data
  ➢ Avoid the incomplete consult!

• Diagnostic images & Lab Information

• Telemedicine Personnel
  ➢ Site Coordinator
  ➢ Medical Director
  ➢ Specialist

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Health Care System

Teleconsultation system in:

• Hospital
• Community health center
• Office practice
• The Home
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Telemedicine Consultations

• Visual specialties
  ➢ i.e. Rheumatology: range of motion

• Technology captures sounds
  ➢ echocardiography

• “The talk is the treatment”
  ➢ telepsychiatry
Visual Specialties

Examples

- Radiology
- Otorhinolaryngology (ENT)
- Pathology
- Dermatology
- Rheumatology
- Orthopedics
Teleradiology
Otorhinolaryngology (ENT)
Teleophthalmology
The Joint Exam
Technology reproduces sounds

• Cardiology

• Pulmonary

• Gastrointestinal
Electronic Stethoscope

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Tele-echocardiography

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Videoconferencing

- Geriatrics
- Pain Management
- Pharmaceutical review
“The talk is the treatment”

- Psychiatry/psychology
- Genetic Counseling
- Nutrition
- Physical activity
- Support group
- Hospice care
Support Group
Health Care System

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Home Health Care Applications

- Wound care
- Post-operative care
- Pre-organ transplantation
- Physical therapy
Health Care System

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Health Care Systems

Teleconsultation system in:

- Hospital
- Community health center
- Office practice
- The Home
- Mobile telehealth (i.e., mTelehealth)
Newest Health Care Tool
Diabetes Monitoring
Medical Self-monitoring
TeleStroke Programs

National Institutes of Health Stroke Scale (NIHSS) Assessment Scenario
University of Arizona, Tucson
IHS, Sells
TeleTrauma – Today
Thank you!!

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