### Tele health services



**Tele-health:** The use of communications and informational technology to deliver health care services and information over large distance.

 <u>Tele-nursing</u>: is defined as the practice of nursing over distance using telecommunications technology.

National council of state board of nursing (NCSBN), 1997

 <u>Tele-nursing</u>: is the use of telemedicine / telehealth technology to deliver nursing care and conduct nursing practice.

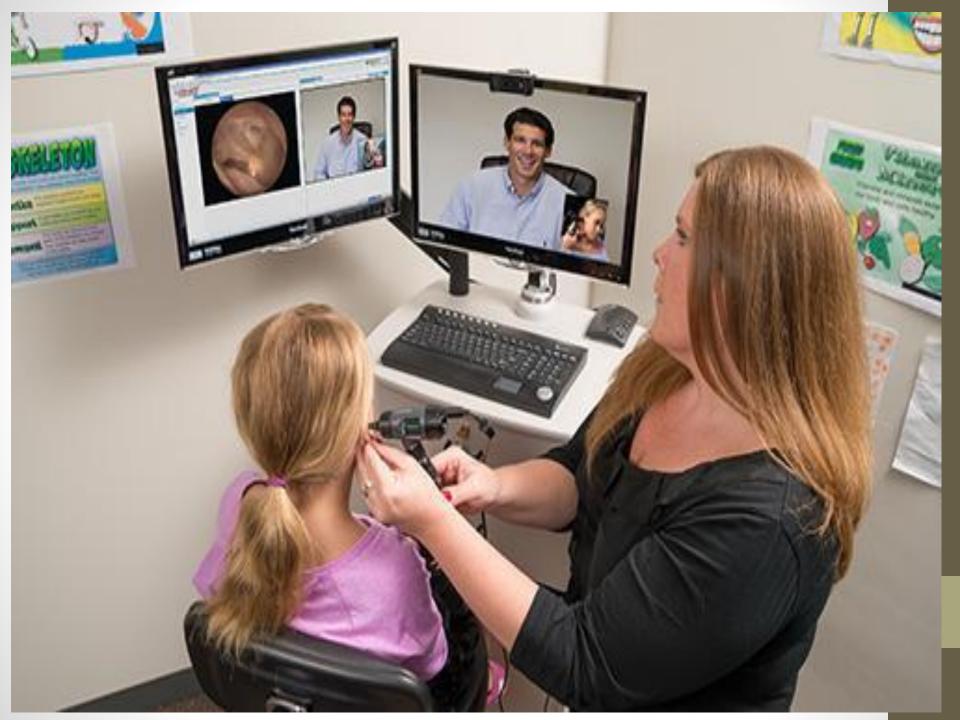
Encyclopedia of Nursing Research, Fitzpatrick J.ed, 1999

• *Tele-nursing*: refers to the use of telecommunications technology in nursing to enhance patient care it Involves the use of electromagnetic channels to transmite voice, data and video communication signals. International Council of Nurses(ICN), 2001

<u>Tele-nursing</u>: is the delivery, management, coordination of care and services provided via telecommunications technology within the domain of nursing. <u>American association of Ambulatory Care</u>
<u>Nursing (AAACN) 2004</u>

**Tele-health** is the use of digital information and communication technologies, such as computers and mobile devices, to access health care services remotely and manage of health care.

Tele-Nursing is a part of Tele-health Tele-Nutrition , Tele-pharmacy , Tele-psychology, Tele-neurology



### Virtual Hospital uses Tele-health to deliver medical care to the developing world



# The goals of Tele-Health services

- Make health care accessible to people who live in **rural or isolated communities.**
- Make services more readily available or easiest for people with limited mobility, time or transportation options.
- Provide access to medical specialists.
- Improve communication and coordination of care among members of a health care team and a patient.
- Reduced hospitalizations and visits
- Cost-effective method of service delivery

### **History of Tele-Health**

#### 1905

William Einthoven transfers electrocardiograms electronically

#### **1990**s

Telemedicine matures; wide-spread acceptance of teleradiology practices

#### **1960**s

First used by NASA to monitor health of astronauts in space

#### Now

Telehealth seen as a viable means for improving access, .decreasing costs

### **Methods and modalities**

- Phone calls
- Phone conferencing
- Videoconferencing
- Internet
- Store-and-forward imaging
- Streaming media
- Wireless communications

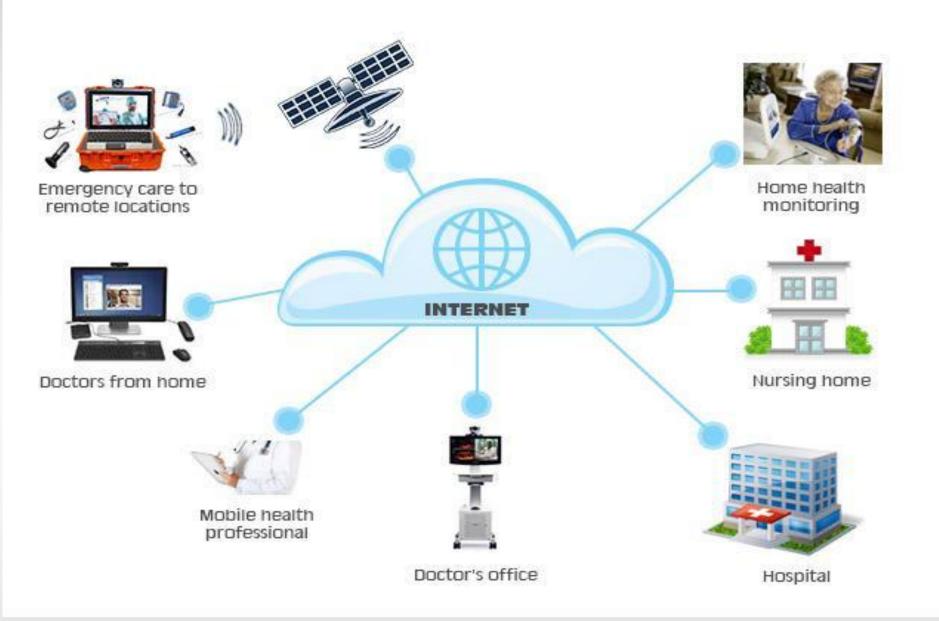
### New Innovations in Telehealth



- ✓ Mobile Apps & Mobile Browsers
- ✓ Tele-Vitals
- ✓ Bluetooth Devices









### **TELEMEDICINE NETWORK**

### **The limitations of Tele-Health**

- **Complex Tele-health Equipment**
- Not all people have knowledge in dealing with modern technologies and programs
- Iimited related to internet availability or the cost of mobile devices.
- Security and Privacy
- Difficult access to remote area

## **The Future**

- •The technology associated with home telehealth will become much more developing and integrated over time.
- •Monitoring equipment will become more affordable
- Home monitoring systems will be integrated monitor safety and functionality

 Emergency response devices, environmental safety monitors, motion sensors, activity of daily living measures and a host of other equipment will be integrated, providing a much more comprehensive view of the patient, their physical status and ability to function.

### My suggestions about Tele-Health

- I suggest opening Tele-health centers in every governorate in Iraq.
- Design a Mobile and computer applications programs facilitate communication with these centers.
- Diversification in Tele-health services for different specialties such as nursing, mental health, elderly care and others

