VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELGAUM

"SYNCHRONIZED TELEMEDICINE USING WAP"

Submitted for the Award of the Degree of

Bachelor of Engineering

In

COMPUTER SCIENCE & ENGINEERING

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ABSTRACT

Telemedicine is a rapidly developing application of clinical medicine where medical information is transferred via telephone, the Internet or other networks for the purpose of consulting, and sometimes remote medical procedures or examinations.Telemedicine may be as simple as two health professionals discussing a case over the telephone, or as complex as using satellite technology and video-conferencing equipment to conduct a real-time consultation between medical specialists in two different countries. Telemedicine generally refers to the use of communications and information technologies for the delivery of clinical care.

When a patient is in the hospital and he is placed under general observation after a surgery or other medical procedure, the hospital is usually losing a valuable bed and the patient would rather not be there as well. Home health allows the remote observation and care of a patient. Home health equipment consists of vital signs capture, video conferencing capabilities, and patient stats can be reviewed and alarms can be set from the hospital nurse's station, depending on the specific home health device.

Telemedicine is most beneficial for populations living in isolated communities and remote regions and is currently being applied in virtually all medical domains.Telemedicine is also useful as a communication tool between a general practitioner and a specialist available at a remote location.

Monitoring a patient at home using known devices like blood pressure monitors and transferring the information to a caregiver is a fast growing emerging service. These remote monitoring solutions have a focus on current high morbidity chronic diseases and are mainly deployed for the First World. In developing countries a new way of practicing telemedicine is emerging better known as Primary Remote Diagnostic Visits whereby a doctor uses devices to remotely examine and treat patient. This new technology and principle of practicing medicine holds big promises to solving major health care delivery problems in for instance Southern Africa because Primary Remote Diagnostic Consultations not only monitors an already diagnosed chronic disease, but has the promise to diagnosing and managing the diseases a patient will typically visit a general practitioner for.