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Abstract

In recent years, the world is facing a frequent problem that the number of patients is increasing and the number of diseases are also increasing hence, the problem of home-care for patients is very important. In recently, wireless sensor networks are used to structure home-care system in many researches. Wireless sensor networks application for physiological signals communication transmission has many technologies. Most monitoring systems that are in use

in today's world works in offline mode but it is of greatened that a system must be designed so that patient can be monitored remotely in real time. The system consists of sensors which measures pulse and body temperature of a patient which is controlled by the microcontroller. Both the readings are displayed in LCD monitor. Wireless system is used to transmit the measured data to a remote location. The pulse sensor counts the pulse for specific interval of time and estimates Beats per Minute while the temperature sensor measures the temperature and both the data are sent to the microcontroller for transmission to receiving end. Finally, the data are displayed in the LCD at the receiving end. The optical pulse sensor counts the pulse per minute and temperature sensor measures the temperature from the body and both the measured data are sent to a receiving end utilizing wireless technology where the data is displayed in a cell phone for further processing and patient care. The system is developed for home use by patients that are not in a critical condition but need to be constant or periodically monitored by clinician or family. In any critical condition the SMS is send to the doctor or any family member. So that we can easily save many lives by providing them quick service. The system promises to cost effective, ease of implementation, automatic and continuous monitoring of patient.

Refer

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Computer Science

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Keywords

Micro Controllers Off-line Mode Body Temperature Pulse Remote Monitoring
Sensors

Lcd Monitor.