Results

1) IOT Monitoring proves really helpful when we need to monitor & record and keep track of changes in the health parameters of the patient over the period of time. So with the IOT health monitoring, we can have the database of these changes in the health parameters. Doctors can take the reference of these changes or the history of the patient while suggesting the treatment or the medicines to the patient.

2) Hospital stays are minimized due to Remote Patient Monitoring.

3) Hospital visits for normal routine checkups are Minimized.

4) Patient health parameter data is stored over the cloud. So it is more beneficial than maintaining the records on printed papers kept in the files. Or even the digital records which are kept in a particular computer or laptop or memory device like pen- drive. Because there are chances that these devices can get corrupt and data might be lost. Whereas, in case of IOT, the cloud storage is more reliable and does have minimal chances of data loss.

Conclusion

This project introduced a new scheme which is very useful to take care of patient by themselves as well as by doctor. This wireless medical surveillance system gives accurate readings to server as well as to doctor on their mobile. Experimental results show that the system gives excellent performance and lot of benefits. This is just start of improvement in the current medical conditions. The patient who are aged person and live along for them system is very much beneficial. This scheme is very good solution for taking care of old people and ideal for wireless transmission.

Objective

The facility for the patient is limited due to the typical instruments which are used for monitoring the real time parameters in medical field. Every time it is not possible for patients to go to the hospital and take a service. System introduced is helping us for taking care of patient by themselves as well as by doctors. Here patients not only can measure parameters related to body but also they can see it. At the same time hospital and doctor can also get patient’s health update and subsequently they can give related instructions after correct diagnosis. The wireless devices which are used these days have high performance and able to identify faults. Medical errors are eliminated due to the wireless devices. So the workload at the nurse station of the hospital is reduced.

Method

**There are 4 sensors working as input to the Arduino.**

* ADXL= ACCELEROMETER SENSOR FOR STABILITY MEASURMENT.
* PULSE SENSOR= HEART BEAT SENSOR FOR MEASURING HEART BEATS.
* GAS SENSOR FOR MEASURING THE RELATIVE CO2 DENSITY.
* DHT OR LM35 SENSOR FOR MEASURING RELATIVE TEMPERATURE & HUMIDITY.

**There are 2 modes of retrieving the output from the Arduino.**

* OUTPUT THROUGH 16\*2 LCD SCREEN.
* IOT BASED OUTPUT THROUGH WI-FI MODULE**.**