



Smart Wearable Body Sensors for Glucose Monitoring

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Abstract:Currently, diabetes has emerged as a major healthcare problem in India. Today approximately 8.3 % of global adult population is suffering from diabetes. Patients are recommended to monitor their blood glucose level via an invasive finger tip stick method, this way will inevitably bring patients pain and infection. In our work, a painless measurement of glucose is introduced which is said to be non invasive. Non invasive glucose monitoring is to predict the glucose level of the patient without finger pricking. The different parameters like blood pressure, temperature and heart rate of the patient is to be monitored remotely and under the control of dosage of medicine provided. The measurements are being done through several sensors and these sensors send the measured values to the clinicians for diagnosis and the control action will be taken by doctor urgently. It is depending upon the sensors response and the message which is received by doctor. This method is also needed for monitoring the blood glucose levels frequently to prevent the complications of diabetic patients related to the disease. This system also provides the wearable monitoring and can be used as a portable device where the data can be received as a message in mobile. In the proposed system a completely reliable, accurate and efficient monitoring system will play an important role in providing the better patient care which is pain free.

Keywords :Diabetes, Sensors, Glucose, Blood, Measurement.