

Non-invasive wearable device Amrita Spandanam to monitor blood glucose and pressure

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Amrita Vishwa Vidyapeetham ties up with Tranquility IOT and Big Data Solutions for the launch



Amrita Vishwa Vidyapeetham has entered into a pact with the Kochi-based startup Tranquility IOT and Big Data Solution for the manufacture and sale of a non-invasive device developed by Amrita researchers for home-monitoring of glucose and blood pressure. The device is called Amrita Spandana.

Developed and patented by the varsity's Centre for Wireless Networks and Applications, it is a wearable, six-in-one device that is an excellent replacement for a bedside monitor. It can be used to measure six body parameters including blood glucose, blood pressure, heart rate, blood oxygen, respiratory rate, and 6-lead ECG.

Amrita Spandanam will help patients in rural and inaccessible settings to self-monitor their blood glucose and blood pressure levels without the need to prick their fingers or get help from a nurse to correctly place the cuff. The data can be sent to any doctor remotely over the Internet and teleconsultation initiated within the app itself, enabling the patient to obtain remote prescriptions and guidance.

The device also enables patients to monitor their cardiovascular functions through a six-lead wearable ECG configuration, along with automatic activity tagging, which is highly beneficial for fitness monitoring and post-operative patients.

Amrita Spandanam is connected to the patient's smartphone. The data is sent to a secure hospital cloud which enables any doctor authorised by the patient to access the vital parameters remotely from any location.