

Smart toilets can help protect users against heart failure

A group of high-tech scientists have invented a smart toilet device that can actually detect and help protect users against heart failure.

In the smart technology world we live in today, things that seem to be unrelated to each other are gradually becoming a reality, a case of the smart toilet we are about to find out below. Specifically, a group of high-tech scientists have recently invented a truly smart toilet device that can detect and help protect users against heart failure.



1. How can IoT help you enjoy 4.0-style meals?

Smart toilet

Believe it or not, heart failure does not exist somewhere as far away as you think it really is in our lives. With the current negative lifestyle, heart failure can happen to anyone. The World Health Organization recommends that people need regular cardiovascular health checks, even if there are no abnormal signs. After all, prevention is always more effective than cure, and applying high technology to diagnose and control the development of diseases in the human body is also an effective measure. fruits that we need to take advantage of.

If you are interested in both the health and high-tech sectors, the effective combinations between these two areas over the years have been no longer something surprising. But this combination between a smart toilet and the

ability to prevent heart failure is very noticeable and should be invested in extensive development. A research team from Rochester Institute of Technology, New York, has created a smart toilet that allows patients with a history of cardiovascular disease to monitor their heart health. Accordingly, this toilet will be powered by a battery and can be connected to the cloud utility to monitor users' blood pressure, blood oxygen levels and other cardiovascular data as soon as they go to the toilet. One study showed that this smart toilet operates quite similar to some cardiovascular monitoring devices that are being used in hospitals.



1. Cancer drugs "smart"? Why not!

Experimental practice has shown that if a patient regularly uses this type of smart toilet, their health situation will be monitored more closely without having to see a doctor continuously as before. Of course, these patients will still need to be clinically tested periodically, but in general, both important factors, time and cost, are significantly more economical. It is hoped that in the future this device will be able to predict the signs of heart failure early enough to reduce the risk of hospitalization for patients, or worse, may affect the network.

Currently, there is only one FDA approved heart failure monitoring device in the world. This device uses a small pressure sensor, which is implanted directly into the artery near the heart. The patient will need to lie down once a day for a certain period of time so that the sensor conducts data on their cardiovascular condition, which is relatively inconvenient and disturbance in life is impossible. Meanwhile, the smart toilet does not require transplanting anything into the patient's body, and of course the patient will not need to spend time lying down to monitor, because of this work. already done while going to the toilet!

'We want to create a device that can be suitable for everyone, and at the same time minimizing all changes that can lead to inconvenient disturbances in patients' activities,' experts said. Nicholas Conna, a scientist and co-author of a study on shared toilet toilets.

1. AI-based software can diagnose prostate cancer

In addition, a great advantage of this smart toilet is that it is a wireless technology product, and sends the data obtained to the cloud utility, but the device is completely Waterproof, luxurious design, durable and can be cleaned like any other traditional toilets.

There will be three smart sensors hidden in the pedestal, including electrocardiogram to measure electrical activity in the heart, measuring photograms (photoplethysmogram) to measure blood oxygen levels and cardiograms (ballistocardiogram). to measure the mechanical force of blood. An advantage of the smart toilet information collection method is the ability to use it flexibly. With this device, patients can measure their own strong heart indexes whenever they want without having to worry about going to the hospital at a doctor's specific time or feeling. Restlessness, anxiety can affect measurement results.



1. Scientists develop brain scanners like helmets

Convenience

After all, the number one benefit of this smart toilet is obviously convenient. There is no screen, no messy wires, and especially not frequent visits to the doctor, which saves considerable time and treatment costs of patients. Hopefully, more smart medical devices will be developed and put into practical use in the future, in order to bring people a more modern life.

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