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Chinese scientists develop novel health gadgets

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These high-tech gadgets are based on the principle of triboelectric nanogenerator.

A group of scientists from the Chinese Academy of Sciences have developed a magical suit fitted with large-area textile sensors which can detect temperature, pH levels, pressure and other indicators that show the health status of a person.

With the help of wireless transmission, those signals can be sent to a cellphone, a computer, or even to a doctor thousand miles away, so a person's health can be monitored anytime and anywhere.

The group has also been working on nano tattoos and a self- charging cardiac pacemaker, which does not need recharging or replacement. The nano tattoos are stickers which can be worn on the arm to administer drugs into a patient's veins, providing a painless way of injection for diabetics. These gadgets are expected to hit the market in two to three years.

These high-tech gadgets are based on the principle of triboelectric nanogenerator. It harvests mechanical energy of motion, such as the energy people produce when they walk, and transforms it into electric signals.