

The world's smallest chip, fits in a needle to inject into the body

Recently, engineers from Columbia University, New York have successfully created the world's smallest chip with a volume of less than 0.1 mm³, equivalent to a dust mite.

This chip can be applied in many things, especially can be implanted in the human body to monitor health status.

According to engineers, when this microchip enters the human body, it can support and enhance physical functions, treat a variety of diseases, and improve patients' quality of life. This chip can help monitor the patient's temperature, blood pressure, glucose and respiration to help with the diagnosis and treatment process.



This world's smallest chip has a volume of less than 0.1 mm³, equivalent to a dust mite and must be observed through a microscope. To communicate wirelessly with the device, the researchers used ultrasonic energy.

This is just a single chip that can function as a complete electronic system, said Ken Shepard, leader of the research team.

This world's smallest chip is a new innovation in the development of wireless and miniaturized medical devices that can sense many other things. It will be used in clinical applications and will be approved for human use in the near future.

Currently, these new chip models can only measure body temperature when implanted in a needle under the skin. The engineering team is continuing to research and develop to add other capabilities including measuring blood pressure, glucose levels and respiratory function.

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