

Amazing medical achievement: Permanent paralysis patients have returned to normal

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This patient was treated in the " **Walk Again** " project in Sao Paolo, Brazil, to treat paralyzed patients with a **thought-driven support frame** design .

Eight patients with polio treated in the project gradually regained the sense of movement they had lost. The nerves connected to the spine of 7 people were all severely damaged in the past. But after the training process, experts found that some of the neurons among them "revived" could reconnect the signal to the brain.



Excerpt from the research team 's statement on Scientific Report: *"Although an initial patient could not stand when supported by the support bar and placed in the most ideal straightening posture, but after 10 months of contact keep practicing, he has gradually taken his first steps back, even though he still has to use some support equipment and a special treatment. "*

" During this period, patients will be directed to self-control the movement of their legs according to the usual walking movements, while being raised suspended in the air."

"In another case, the seventh patient could go on his own with two crutches and leg support, no need for any therapist."

Professor Miguel Nicolelis, director of the Center for Neuroscience Technology at Duke University (USA), said that seven patients had previously been diagnosed with complete paralysis, but after treatment was only considered paralyzed. part of the body only.



The recovery of patients has not stopped here " *Even the recovery effects are still not fully demonstrated,*" he added.

The training process involves these patients applying **virtual reality technology** to control a digitized model on a computer that integrates a brain simulation interface. Therefore, when they think about moving forward, that pattern also moves in the same way as if it was their own body.

Later, the same technology platform was applied to control robots, and finally the support framework designed for patients attached to them.

" Explaining the above positive results, the key point lies in long-term training efforts with diverse digital platforms including virtual reality interfaces, robot control and support frames, thereby stimulating restoring part of nerve cells, affected by both the same functions in visceral, sensory, tactile and motor neurons, "quoted Professor Nicolelis.

" Although all previous medical evidence shows that the history of more than a decade ago suffered from full body pain, it seems that not all nerve structures are ineffective. Some of the That number is still likely to be recovered and thus has been "sleeping" over the years. "



"With the brain signaling mechanism to directly control the device, while also providing the most rapid sensory feedback related to the patient's progress, we may have really affected, restructure part of the patient's cortex. "

" It is as if we have" restarted "the spinal nerve cells, accompanied by a series of cortical response signals, indicating that they are actually walking on their own. again."

The pelvic and cardiovascular functions of patients also improved significantly, contributing to reducing hypertension. The potential of this method has not been evaluated properly because the collected data is still changing.

" Until now, once diagnosed with polio, those patients will often have to stick with the wheelchair for the rest of their lives, " Professor Nicoletti explains. " Therefore, we believe that our discovery in the long run will not only serve as an effective recovery tool, but also a breakthrough method that will set the stage for other promising innovations related to Spinal cord. "

" This is indeed a worthy journey, going through a 15-year process of working and experimenting for the first time on animals, so that we can also find the key in the mechanism of brain operation."

"The 'Walk Again' project with outstanding experts has created an important influence in supporting people with disabilities to overcome their physical weaknesses. Look at their happy faces when having the feeling of walking on our own feet is our greatest motivation. "

This is an important milestone in research to **support paralyzed people** .

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