

Breakthrough discovery of immune mechanism that responds to SARS-CoV-2 virus

In a study published in the Journal of Natural Medicine on March 17, scientists at Peter Doherty's Infectious Institute in Melbourne, Victoria, said they had made a new step in discovering muscle. Human immune system responds to SARS-CoV-2 virus.

According to the Vietnam News Agency correspondent, this study is the world's first discovery of a broad immune response to the SARS-CoV-2 virus. Through this discovery, scientists hope to accelerate the successful preparation of an effective vaccine to prevent the spread of disease around the world.



Passengers wear a COVID-19 infection mask at Sydney Airport, Australia on January 23, 2020. Artwork: AFP / TTXVN

The study was based on testing a blood sample of a woman in her forties, infected with the SARS-CoV-2 virus after returning from Melbourne, central China, to Melbourne, at four different times, before and after the patient's recovery, to determine which antibodies are mobilized by the body against disease. Kinda Kedzierska, head of the laboratory behind the study, said scientists have discovered how the patient's immune system responds to the SARS-CoV-2 virus in a similar way to children. people against the flu. According to Professor Kedzierska, patients who tested positive for SARS-CoV-2 virus had symptoms of fatigue, sore throat, dry cough and high fever upon admission. Three days later, scientists discovered that a large number of immune cells, often signs of recovery from seasonal flu infection, appeared in this patient. So they predict the patient will recover

after 3 days and this prediction has come true.

Professor Kedzierska emphasized the fact that treatment for the female patient showed that a healthy person can recover by mild to moderate virus infection in about 3 days. Although SARS-CoV-2 is a new strain of corona virus, in a healthy patient, strong immune responses can be triggered and create clinical recovery.

According to the professor, the new discovery is a step forward in understanding what motivates the body to resist and recover from COVID-19, and now doctors can use the research to understand how immune response to COVID-19, supplementing appropriate therapies.

Infectious disease specialist at the Peter Doherty Institute, Irani Thevarajan, said it is estimated that more than 80% of cases are mild to moderate. Understanding the immune response in these mild cases is very important. He expressed his desire to expand this research into Australian and international cities, so that scientists and international health professionals can better understand why people die from COVID-19. and there are people who still recover. This will help experts better understand the mechanisms of the disease as well as the progression of COVID-19 and new viruses in the future.

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