



5G technology "goes out" epidemic prevention war

08:53, February 14, 2020

Source: People's Daily Overseas Edition

[Print] [Error Correction]



High-definition live broadcast, remote consultation, intelligent robots ... In the new crown pneumonia epidemic stagnation battle, 5G technology has demonstrated its skills, and has become a "magic weapon" in epidemic prevention and control.



On February 11, medical staff set up a 5G thermal imaging temperature measurement device at the exit of Qinzhou East Station in Guangxi Zhuang Autonomous Region to detect body temperature. Photo by Zeng Kaihong (People's Pictures)

Rapid coverage helps the construction of Lei Shenshan Hospital

After more than ten days and nights of hard work, from February 8th, Wuhan Lei Shenshan Hospital will be delivered and used, and the first batch of patients will be admitted.

As efficient as the speed of hospital construction, it is the coverage of 5G signals in the hospital area. It only took 3 days from network deployment to coverage. The person in charge of the Huawei company responsible for the construction of the 5G network introduced that it received a demand for technical support from the evening of January 29 and the base station was jointly commissioned on February 1 in only 72 hours. On February 2, the installation and commissioning of the radio and television 5G base station of Raytheon Hospital was completed, and began to provide public WiFi services for the hospital builders and future medical staff and patients in the quarantine area.

Prior to this, Vulcan Mountain Hospital had also completed 5G network coverage. The remote consultation platform built using the 5G network can support medical experts in both places to share patient medical files for diagnosis through video.

In fact, from the beginning of the construction of Vulcan Mountain Hospital and Raytheon Mountain Hospital, netizens and audiences across the country can broadcast live through the 5G new media platform to watch the construction progress of the two hospitals in real time. In the early stage of the construction of Vulcan Mountain Hospital, China Mobile, China Unicom, and Telecom have already opened 5G base stations, achieving 4G and 5G network coverage.

It is understood that, unlike other 5G signals, the 5G signal covering the hospital area of Thunder God Hill Hospital is more powerful this time. This is the first commercial trial after China Broadcasting and Television got the only 700MHz band 5G license in the country. The 5G network can support 25,000 concurrent communications needs. With the coverage of the 5G network, Raytheon Hospital, which has entered a "wartime state," will use the 5G network for remote command, remote consultation, remote surgery and data transmission to better diagnose and treat patients with new coronary pneumonia.



On February 9, the PLA General Hospital and Wuhan Vulcan Mountain Hospital conducted the first 5G network remote consultation. Photo by Kong Lingzhan (from Xinhua News Agency)

Cloud Huizhi builds remote consultation system

On February 8, a remote case discussion using 5G technology was held simultaneously in Beijing and Wuhan. This is also the first actual use of 5G technology by the Beijing medical team since the emergence of the new crown pneumonia epidemic.

The remote conference room is located in the West Hospital District of Wuhan Union Medical College. The party participating in the conference is the medical team of Beijing Chaoyang Hospital of Beijing Medical Team. At the other end of the screen is a medical expert at Beijing Chaoyang Hospital. In the remote discussion, the experts analyzed the cases of the two patients in detail, and discussed the timing of discharge and the observation and isolation of the patients after discharge.

Tong Zhaohui, the deputy director of Beijing Chaoyang Hospital in Wuhan and an expert in respiratory critical illness, also came to the consultation site. He said that the 5G remote case discussion reflects the emphasis on critically ill patients and helps to further improve the diagnosis and treatment process.

It is understood that at present, the West Hospital District of Wuhan Union Hospital has successfully docked with Beijing Chaoyang Hospital and Beijing Friendship Hospital through a 5G network. In addition, various local hospitals in Wuhan can also be connected through 5G technology. Wu Yong, deputy director of the West Hospital District of Wuhan Union Medical College Hospital, said that the use of 5G technology brings "think tanks" thousands of miles away together, bringing together the best soldiers in the country to fight the new coronavirus.

The characteristics of 5G's large bandwidth and low latency make diagnosis and treatment more efficient, convenient, and safe, and have far-reaching significance for medical applications such as telemedicine. At present, many places have relied on 5G networks to establish remote consultation systems, and have been applied in combat during epidemic prevention and control.

In Sichuan, the 5G remote consultation system created by the Sichuan Health and Health Commission and West China Hospital covers 27 designated hospitals in the province. At present, a number of remote consultations of patients with acute coronavirus infection with new type of coronavirus infection have been successfully completed. At the same time, the 5G dual-gigabit network deployment and 5G remote consultation system of designated hospitals and backup hospitals have also been extended to counties.

Widely used to facilitate epidemic prevention and control

Recently, multiple 5G intelligent medical robots have entered Wuhan Xiehe Hospital and other hospitals. These robots can help medical staff perform tasks such as guidance, disinfection, cleaning, and medication delivery. The introduction of robots can reduce the number of cross-infection among ward medical staff and improve the level of ward isolation and control.

It is understood that, with the support of 5G networks, at present, intelligent medical robots of many technology companies have been promoted and applied in hospitals and health service centers in Hubei, Shanghai, Shandong, Gansu and other places, effectively alleviating the shortage of medical staff and reducing medical care. Cross infection and other risks.

In Guangdong, Fujian and other places, a batch of 5G infrared temperature measurement and detection equipment appeared in hospitals and public places such as railway stations and subway stations. It is understood that this type of equipment mainly uses rapid thermal imaging technology in conjunction with environmental data algorithms. By deploying infrared temperature measuring instruments at the target site, the population is monitored and screened on a large scale to quickly find and track people with abnormal temperature. Through the 5G network, relevant information can be transmitted back to the monitoring center at high speed, which can realize rapid and accurate body temperature screening, effectively improve the efficiency of the entire process of epidemic prevention and epidemic prevention, such as pre-warning, processing during the event, and traceability after the event, and provide more convenience for epidemic prevention and control. (Reporter Liu Yan)



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