

Study on the Home Accurate Temperature Monitoring Technology of COVID-19

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Keywords: Covid-19, Precise Temperature Monitoring Technology, Core Temperature, Projection Area of Pulmonary Artery Catheter Surface, Big Data Cloud Platform

Objective: To retrospective analysis on the temperature measurement results of 69 college students in physical examination, To explore the clinical relevance of the choice of body temperature location, measurement method, and thermometer for accurate temperature measurement in the early detection of new coronavirus infection pneumonia.

Methods: Combined with the pathogenesis, epidemiology, laboratory examination, clinical symptoms, and dynamic changes in CT manifestations of Covid-19, this paper analyzes and deduces from the study of cellular immune system theory and cytokine storm mechanism in the micro-world.

Results: It is reasonable and feasible to measure the core temperature, respiration, and pulse in the Surface projection area of pulmonary arteries. Contact temperature measurement under a big data cloud platform is more accurate, safe, and portable.

Conclusion: Precise temperature monitoring technology helps guide early clinical diagnosis, rapid isolation, and first treatment. It can evaluate as the basis for the effect of Covid-19 clinical, comprehensive treatment.

Introduction:

Coronavirus is also known as Covid-19. Coronavirus is a single-stranded RNA virus that usually attacks animals, birds, and Mammals. But in 2019, the coronavirus cases are reported in humans. This virus has become one of the deadliest viruses in the world. Because of coronavirus, many kinds of people have been affected. There are more than lakhs of people are died in this virus. More than millions of people are affected by this disease. The scientific classification of coronavirus it belongs to the family coronaviridae and the order Nidovirales. The subfamily of these viruses is orthocoronavirinae. These viruses are also known as enveloped viruses. The coronavirus is one of the largest viruses among the RNA viruses. The basic symptoms of coronavirus are fever, cold, shortness in breath, loss of taste, chest pain, fatigue, body aches, and so on. As the first symptom of this deadly virus is a rise in body temperature. so we made an analysis of the measurement of the temperature.

The coronavirus is spherical in shape with a diameter of 125nm. These viruses can easily spread from one human to another. the mode of transmission of these diseases is so fast. As the main symptom of these diseases is a change in body temperature. so it is important to monitor the body temperatures in humans. The body temperature can be analyzed and detected by temperature checking instruments and thermometers.

Method: The analysis of the body measurement was taken physically over 69 college students. This examination was taken physically for all the students to measure the body temperature. As humans have various body temperatures. The body temperature also changes according to location, method of the measurement, thermometer. These detection

methods can help in the early analysis of new coronavirus patients. The method followed in the temperature analysis of the college students are the clinical symptoms, laboratory examination, combined with the methods of epidemiology, pathogenesis, and dynamic changes in CT manifestations of Covid-19. This paper analysis helps to deduce from the study of cellular immune system theory and cytokine storm mechanism in the micro-world. The study on the immune system therapy can detect the presence of coronavirus in human beings.

Discussion: This study helps to know more about the Covid-19 symptoms and the early detection of coronavirus patients. It is a study about the technology that helps to monitors the body temperature at home. The coronavirus symptoms are a rise in body temperature so, it is important to analyze the body temperature of humans. But many cases in Covid-19 are detected with no symptoms. By analysis, the temperature in the body and the early detection of the disease helps to save the life of the patients. The clinical experiments of the body temperature depend on the location, method of the measurement of the body temperature, and the instrument that uses to analyse the temperature in human. Mostly thermometers are used to analyze the body temperature. Thermometers also play an important role in analyzing the body temperature of human beings. The regular temperature measurements lead to the early detection of the disease. The coronavirus mostly affects the respiratory tract and causes pneumonia. As with the help of early detection methods the humans can be saved from these diseases in the early stages of the virus.

The temperatures measurement is stored in a safe format. It is reasonable and feasible to measure the core temperature, respiration, and pulse in the Surface projection area of pulmonary arteries. Contact temperature measurement under a big data cloud platform is more accurate, safe, and portable. With the help of prediction in the body temperature, it is easy to detect the presence of coronavirus in humans.

Results: It is reasonable and feasible to measure the core temperature, respiration, and pulse in the Surface projection area of pulmonary arteries. Contact temperature measurement under a big data cloud platform is more accurate, safe, and portable.

Conclusion: Precise temperature monitoring technology helps guide early clinical diagnosis, rapid isolation, and first treatment. It can evaluate as the basis for the effect of Covid-19 clinical, comprehensive treatment.