

What disease is a coronavirus infection?

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Anatation- *this article is about common viruses and provides information on the origin, spread, symptoms, clinic, prevention of coronavirus infection.*

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INTRODUCTION:

Viral infections are one of the most pressing problems in medicine today. Because these invisible viruses have been found to enter the body and cause abnormalities and even death. Many people on earth are infected with various types of viruses.

Viruses are very small cell – free biological objects that are constantly parasitic in the genetic apparatus of living organisms. There is only one type of nucleic acid in the genome of viruses. All forms of life can be harmful, from plants to the human body. Viruses are an elementary unit of life and are an ideal object for molecular biologists and geneticists. Specificity of viral infections the occurrence of viruses in 2 different forms: intracellular and extracellular.

Symptoms specific to viral infections, such as infections of other etiologies:

- Infectivity;
- Epidemic spread feature;
- The presence of various mechanisms of infection and routes of transmission;
- Damage to certain tissues and organs, accompanied by the development of specific clinical signs;
- Formation of immunity after infection;

Viral infections often take an acute form. As with other infections, they have the following periods:

The viral infection may be asymptomatic at the time the epidemic spreads. Usually acute viral infections and with healing and death of the pathogen.

Since the beginning of the XXI century, the bird flu epidemic has been registered in East Asia, by 2005 it had spread to Russia and European countries. In 2010, a new influenza (swine flu) virus was observed and pandemic in a number of countries around the world. The disease was not registered in the territory of our republic. A major epidemic of Ebola in 2014 was reported in East African countries, affecting thousands of people. Deaths were also observed.

The World Health Organization (WHO) has announced that pneumonia caused by the Coronavirus virus is spreading around the world.

Is a virus that resembles the causative agent of “Atypical syphilis” (SARS), which belongs to the coronavirus – virus family and causes a severe disease in patients ranging from simple flu symptoms to acute respiratory syndrome (TOPC). “Atypical syphilis” disease also originated in China in 2002, spread to 37 countries, and thousands of people became infected with the disease.

The disease was first reported in the media in December 2019 by a 30 – years old resident of Kanagawa, who visited Wuhan, China.

Quarantine was introduced in Wuhan, China, as the disease spread rapidly and deaths were observed. The disease is widespread in Thailand, Japan, Korea, the United States and Australia. In March – April, a pandemic became widespread around the world.

The disease started in China but one of the most dangerous foci of the disease was European countries.

The pandemic has reached even the most human – inhabited regions of the earth. A 42 – Year’s old man was diagnosed with a coronavirus on Easter Island in Chile on March 24. Easter Island, located in the Pacific Ocean, is the most remote residential area in the world.

The reason is that most people do not understand how dangerous this virus is. Including quarantine in our country, and the closure of schools, institutes, collages, lyceums, preschools, cinemas, theaters, parks, public places.

Epidemiology: This virus is resistant to external environmental influences and disinfectants. The main source of infection is wild and domestic animals, as well as sick people. There are currently no specific drugs to treat the disease. Therefore, antiviral tools are being used. The disease is transmitted from a sick person through airborne droplets and domestic contact. Hospital staff also report cases of incomplete use of protective equipment in patient care. The disease is widespread on earth and 80% of adults are found to have antibodies to the virus. Coronavirus infection is most common in late fall, winter, and early spring.

Etiology: Viruses (Latin Virus – “poison”)-no cellular forms of life that can reproduce only within the cell. They are very tiny living beings composed of nucleic acid molecules and protein, carriers of genetic information wrapped in a protective shell. The disease is caused by coronaviruses with an RNA storage size of 80 – 220 nm.

Viruses multiply in the cytoplasm of the upper respiratory tract epithelium. This virus forms a virion par 4 – 6 hours after entering the cell cavity.

Symptoms: General weakness, colds, cough, headache, sore throat, fever, bronchitis, pneumonia are observed in patients. According to experts, the difference between coronavirus – induced disease and influenza is that the disease is characterized by profound symptoms and even death. This is because humans are not yet immune to the virus. This has led to a pandemic among the peoples of the world.

What the fever? Is the rise in temperature?

Fever has been shown to cause a number of symptoms in the body. For example, increased heart rate, nosebleeds, sweating and loss of appetite. There are several types of fevers and they are manifested in various diseases. Various infectious diseases cause specific fever.

Ibn Sina described fever as follows: “Fever is an alien temperature that ignites in the heart and spreads throughout the body through the spirit and blood in the arteries and veins, resulting in inflammation in the body and damage to the natural state of a person.”

Clinical: The clinical manifestation of the disease appears 2 – 4 days after infection with the virus. The disease begins with an increase in body temperature with no obvious signs of general intoxication. Pain, cough, and dry wheezing in children. Coronavirus infection can be complicated by acute pneumonia. Chest radiography reveals focal or interstitial infiltrates. In severe cases, the development of respiratory syndrome in the second week of the disease worsens the activity of the respiratory organs, in adults, this can be followed by dysfunction of various organs. Sometimes enlarged neck, lymph nodes. Coronavirus infection in the form of acute gastroenteritis has also been identified. The disease lasts 1 – 3 days and the patient recovers completely.

Infection?

Infection is the entry of a pathogenic microbe or virus into a human or animal organism, its reproduction and the formation of a complex interaction between the organism and the virus.

Basic signs of diagnosis of coronavirus infections:

- Group morbidity is mainly among single family members and children;
- Seasonality – winter and spring;
- The incubation period is 2 – 4 days;
- Non persistent fever;

The risk groups for which the disease is severe include: pregnant women, postpartum women, children and adults (under 2 years old and over 65 years old).

The famous American doctor Mehmet Oz described the coronavirus in a very understandable way on his Facebook network. I must emphasize this first! Comrades who do not get rid of this virus. Each of us plays it without exception. But the later we infect, the better. If the virus spreads quickly, the intensive care units of hospitals will be left helpless. Viruses are not actually killer, satanic enemies. They are actually creatures living in their own shells, just like us. Have been accustomed to living in an animal organism for centuries. The flu virus is almost the same. The risk of death is 0.1% and it typically kills those with chronic illness. Half a billion people worldwide get the flu each year. There are also tons of viruses that humans are accustomed to living with. We also get used to living with coronavirus. Viruses mutate very quickly. Over time, the virus becomes mutated and does not kill the infected person. So the later we get infected with this virus, the lower its risk. So follow the rules of hygiene without leaving the house. You need to strictly follow the rules of proper nutrition, exercise and quarantine.

Coronavirus prophylaxis

The following recommendations for the prevention of coronavirus are given on the website of the International Health Organization.

- Wash your hands regularly with soap or use a special hand sanitizer gel;
- Cover the mouth and nose with a disposable towel or hand during coughing;
- Avoid contact with patients with influenza;

The purpose of wearing medical masks is to ensure that the sick person does not harm others.

More than three people are prohibited from meeting in quarantine. Everyone must live in accordance with the rules of sanitation and hygiene.

Parents should make sure that young children do not walk the streets for reason. People over the age of 65 need to isolate themselves. In addition, people with chronic illness should not go to crowded places. Do not communicate with anyone should sit at home.

We need to take this disease seriously. We have to live with the idea that this disease can infect us as well. Then the attention to ourselves also increases. And our changes of contracting the disease are reduced. Man must care for his own life. Then his health will not be harmed.

The fight against this disease is also in the fact that such a person pays strong attention to self – care and health.

So we have to learn to live with us. The reason is that there is still no definitive treatment for this virus.

The current state of quarantine imposed by our state is to put an end to the spread of the virus, which is spreading rapidly among the population and is asset of measures to prevent deaths.

Do not be indifferent to the health of yourself and your family by staying at home, following the rules of quarantine!

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