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The Course of Neurodermatosis in Patients with COVID19

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Summary: The covid-19 pandemic is associated with dermatological care. A study of a number of cases around the world has revealed a number of potential dermatological manifestations of COVID-19. It is difficult to determine the frequency (from 0.2 to 20.4%) and the time of the appearance of skin manifestations of COVID-19. In addition, the connection of some skin manifestations with the severity of the disease remains unclear. In addition, it cannot be excluded that the observed skin manifestation is a reaction to many COVID-19 treatment methods.

Keywords: neurodermatosis, COVID-19, itching, rash.

With Omicron, a person may develop various skin rashes. This manifestation of this strain occurs in 19% of patients with COVID-5. In addition, rashes can be almost imperceptible and manifest. After COVID-19, the inflammatory process begins in patients. If there is a predisposition to chronic skin dermatoses, it may never manifest itself, but in patients who have undergone coronavirus, an inflammatory process begins. Chronic dermatosis can be allergic dermatitis, coronary heart disease, atopic dermatitis – these are already considered skin diseases, but they began to worsen after the virus. "Allergic dermatitis and donkey fever can have an acute onset, but they can also become chronic. You can predict the disease by contacting a dermatologist, based on additional laboratory data. Whether this is a chronic problem or it can be stopped now and it won't happen again, such problems can be solved. In addition, hemorrhagic rashes similar to vasculitis, bruises or a bloody rash may also occur after the coronavirus. "In adolescents, for example, in children, pale marble of the skin may be observed. The purple mesh may not itch, but it will cosmetically irritate the patient."

Patients with COVID-19 also complain of hair loss and fragility, striped nails, and their thinness. In case of any deviation, it is important to immediately determine the cause and begin proper treatment. Any spots are the main reason for additional examinations to avoid complications. A number of scientists have warned that patients with coronavirus may lose their hair 2-3 months after the disease. In addition, some may lose up to 50% of fluid, and all this can be observed along with constipation, as well as itching.

External manifestations scientists of the Department of Dermatology and Allergology of the Dresden State Clinic noted that the pandemic of coronavirus infection is a serious problem for specialists. There is a lot of information about the skin symptoms identified during the tests, although their specificity for COVID-19 has not yet been proven. The researchers also draw attention to the fact that due to the epidemic it is very difficult to treat patients with inflammatory diseases - for example, psoriasis. Although COVID-19 is not a skin disease, it has had a serious impact on the field of dermatology. In fact, various external manifestations have been described in patients with coronavirus infection.



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Under the influence of coronavirus infection, the inflammation may be excessive overexpression of cytokines (proteins that dissolve low-molecular information that provide signals between cells.), this leads to an imbalance of the inflammatory response, which in turn can cause the development of certain skin manifestations. However, this is only one of the possible mechanisms for the development of skin symptoms, there may be many reasons, and they need to be studied more deeply.

Seven types of pathologies

Specialists of the Moscow Scientific and Practical Center of Dermatology and Cosmetology, the Pirogov RNIMU and the RUDN studied skin pathologies associated with coronavirus infection. In general, they can be divided into seven categories.

The first group is cutaneous angiitis (blisters, hemorrhagic spots of various sizes, inflammation of the walls of blood vessels, manifested in the form of inflammatory nodules and plaques), which are caused directly by coronavirus infection caused by damage to immune complexes that stand out on the walls of small blood vessels of the dermis.

The second group is papulo-vesicular rashes. Such injuries are always characterized by acute clinical signs; usually they cover the entire body of the maxcam. A striking example of such rashes can be acue with chickenpox. With coronavirus, this is more like the sweating process that occurs when sweating increases for several days in patients with high temperatures.

To the third category of skin manifestations, experts include pink glandular and papulo-squamous rashes (inflammatory skin diseases characterized by red or pink papules and ulcers covered with mites (psoriasis belongs to this group).

They are infectious and allergic skin criteria associated with COVID - 19 infection, the clinical feature of the pink skin in coronavirus infection is the absence of "maternal pilaccae" - the largest sign that appears first in the classic course of dermatosis. Experts attributed the shell-like rash to the fourth category, and toxidermy to the fifth. These rashes are not directly related to coronavirus infection. They appear as a result of individual side effects of medications in some patients. In the sixth group of skin manifestations of the coronavirus, scientists introduced a donkey - in some cases, they concluded that this could be a harbinger of the onset of COVID 19. The last, seventh category is represented by the fact that trophic changes in facial tissues occur due to prolonged stay of patients in the ventilator and lying on their backs.

Diagnosis on the fingers: despite such a variety of clinical manifestations, their causative agent may be Sars-CoV-2, it cannot be said that homrox is a complication of diseases. It is for this reason that it is important to continue further research. The manifestation of various signs on the skin may also be associated with drugs used in the treatment of coronavirus. In such cases, it is necessary to determine which drug caused this reaction and cancel it. With such skin manifestations, the dermatologist should carefully collect an anamnesis and suspect the presence of a coronavirus infection in the patient, especially in the presence or absence of signs of SARS. Also, with an atypical clinical picture of other skin diseases, such as the pink gland of Jibert, which is not an ordinary maternal plaque, it is necessary to exclude infection with COVID—19," the expert explained. Skin symptoms can be used to determine the stage of the disease. Some scientists have already proposed to assess the course of the virus and associate it with the appearance of dermatological symptoms, as they noted the serious appearance of the skin in severe coronavirus infection. Spanish experts described the characteristic skin symptom as "covid fingers". Externally, this pathology may be similar to mechanical damage or a cold. At the same time, patients refuse the possibility of such injuries. Perhaps this is a special form of cutaneous angiitis, which often has an infectious and allergic origin and is one of the signs of infection with COVID-19.

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