

Cutaneous manifestations associated with COVID-19 in a 46-year-old man

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The cutaneous manifestations related to COVID-19 including erythematous rash, urticaria, livedo reticularis, vesicular lesions, and chilblain-like lesions. In some COVID patients, in addition to the common symptoms of Covid 19, may occur at the same time as the cutaneous manifestations. In some COVID patient's cutaneous manifestations arise before the signs and symptoms more commonly associated with COVID-19. So, these cutaneous manifestations have diagnostic or prognostic value. In this article we presented a case of cutaneous manifestations related to covid-19

Keywords: chloroquine, disturbances olfactory, consciousness, pulmonary manifestations, (COVID-19)

INTRODUCTION

Corona virus disease 2019 (COVID-19), caused by severe acute respiratory syndrome corona virus 2 (SARS-CoV-2) was first seen in Wuhan, China, in December 2019 and now has spread to acquire pandemic proportions (Giavedoni et al.2020). Common symptoms include fever, cough, fatigue, dyspnea and hypogeusia/hyposmia (Genovese et al. 2020), other manifestations are also relevant, and sub-acute manifestations such as organizing pneumonia and decreased pulmonary function, or drug interactions (Recalcati et al.2020,Guan et al.2019)

In addition to these symptoms, most recently The COVID-19-associated cutaneous manifestations have been increasingly reported (Genovese et al. 2020), These cutaneous manifestations including erythematous rash, urticaria, and livedo reticularis, vesicular lesions, and chilblain-like lesions (Recalcati et al.2020, Diaz—Guimaraens et al.2020,Piccolo et al.2020).In this study we want to report one case of COVID-19 infection that presented with skin manifestations.

Presenting the case:

A 46-year-old man with no previous medical history, Accompanied by back pain that spread to the foot in the last 17 days, initially presented with symptoms of chills (without fever), and disturbances olfactory. When he referred, after clinical examination and preclinical tests, he tested positive for corona virus. In addition to the common covid-19 symptoms, also other lesions including itching, burning was seen in the patient upon admission. The lesions seen in this patient are urticarial lesions that have

been reported in a study of Young et al. (2020) In a thirty-nine woman with covid-19(Piccolo et al.2020).

However, in this study has been stated that these cutaneous manifestations are also seen in patients with covid-19 who receiving drugs such as hydroxyl chloroquine, chloroquine, azithromycin, Remdesivir, andetc.(Piccolo et al.2020).

The patients take adult cold and azithromycin pills for a few days at home, and also uses beta dine and Ad ointment on skin lesions along with.



Figure 1: Skin lesions when the patient visits



Figure 2: Four days after the onset of skin lesions



Figure 3 : Eight days after the onset of skin lesions

DISCUSSION

Symptoms such as fever, cough, fatigue, muscle aches, joint pain, and shortness of breath have been reported as common symptoms of Corvid 19 virus (Park et al.2020) In addition to respiratory symptoms, involvement of various organs of the body such as the gastrointestinal tract, nervous system, skin, olfactory system, cardiovascular system, liver, kidneys and eyes are also present during Covid-19 disease (Ganji et al.2019).Extra pulmonary complications also include loss of sense of smell, loss of sense of taste, skin rash in the form of erythematous, widespread urticarial lesions and chickenpox-like blisters, acute heart damage with a significant rise in cardiac troponin levels, inflammation Renal edema, common gastrointestinal symptoms such as diarrhea, nausea and vomiting, elevated liver enzyme levels, neurological complications such as stroke to non-

specific symptoms such as headache, dizziness, decreased level of consciousness(Machado et al.2020, and Goncalves et al.2020).

Hypothetical mechanisms of involvement of various organs include immune-mediated inflammation such as cytokine storm, respiratory dysfunction and hypoxemia due to Covid-19 disease, direct cell damage due to SARS-2 corona virus, or a combination of these mechanisms(Goncalves et al.2020). This extra pulmonary manifestations also include thrombotic complications, myocardial dysfunction and arrhythmia, acute coronary syndromes, acute kidney injury, gastrointestinal symptoms, hepatocellular injury, hyperglycemia and ketosis, neurologic illnesses, ocular symptoms, and dermatologic complications(Gupta et al.2020).

But in recent months, in addition to the common symptoms of Covid 19, the sufficient amount of descriptions of various skin manifestations in patients with COVID-19 has appeared, and the pathogenic mechanisms of the development of skin rashes in patients with COVID-19 are currently unknown, however, hypotheses have been put forward that they have an overactive immune response, activation of the complement system and micro vascular damage.

Based on the published literature data and our own experience, the following characteristic types of skin rashes can be distinguished among the skin manifestations of this viral disease: urticarial lesions, confluent, papulovesicular exanthema, acral rashes similar to frostbite, livedo reticularis and purpura (Recalcati,2020 and Estébanez et al. (2020) in their article has reported a 28-year-old woman thirteen days after being tested (10 days after last dose of paracetamol), the patient started noticing pruritic lesions on both heels and sent us some photographs. Confluent erythematous-yellowish papules were observed in both heels(Estébanez et al.2020).And also C Galván et al. (2020) in a retrospective study on 375 Spanish cases, have described a large, representative sample of patients with unexplained skin manifestations and a diagnosis of COVID-19 and finally describe five clinical patterns associated with different patient demographics, timing and prognosis(Galván et al.2020)

CONCLUSION

Cutaneous manifestations have diagnostic or prognostic value. In this article we presented a case of cutaneous manifestations related to covid-19.

CONFLICT OF INTEREST

The authors declared that present study was performed in absence of any conflict of interest.

AUTHOR CONTRIBUTIONS

All authors read and approved the final version and contributed equally.

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