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## **EFFICIENCY OF THE DRUG TIVORTIN IN PATIENTS WITH CHRONIC HEART FAILURE AFTER COVID-19**

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**Summary:** COVID-19 is a respiratory tract infection and a highly contagious disease complicated by pulmonary pneumonia. This disease is especially severe in patients with cardiovascular disease. The disease exacerbates the clinical signs of heart failure due to electrolyte imbalance in the blood through direct damage to the cardiovascular system and damage to the endothelium of the vascular wall. Chronic heart failure affects 10% of the world's population over the age of 70, and in total 15 million suffer from this disease in the world. Of interest is the diversity of epidemiological data in the CIS countries and Uzbekistan. The likelihood of an increase in this indicator after a pandemic, the severe course of this infection in patients with chronic heart failure requires special care and treatment.

**Key words:** infectious disease, COVID-19, cardiovascular disease, pandemic, electrolyte balance.

### **Relevance of the work.**

In 2020, the rapid spread of the coronavirus infection presented a problem to the medical teams of the whole world. As a result, it was noted that some changes in the course of all types of diseases are observed against the background of the infection of COVID-19. COVID-19 is a highly infectious disease of the respiratory tract, complicated by pneumonia. This disease is especially severe in patients with cardiovascular disease. This disease has a direct damaging effect on the cardiovascular system and damages the endothelium of the blood vessel wall, thereby increasing the clinical symptoms of heart failure by disrupting the electrolyte balance in the blood. In addition, due to the virus damaging the respiratory surface of the lungs, ischemic heart diseases may develop due to the violation of blood supply to the heart. 10% of the world's population over the age of 70 have chronic heart failure, and a total of 15 million people worldwide suffer from this disease. The diversity of epidemiological data in the CIS countries and Uzbekistan increases interest in studying this topic. After the pandemic, there is a





high probability of this indicator increasing, and the severe course of this infection in patients with chronic heart failure requires special care and treatment.

**The purpose of the study.** Despite the implementation of a number of scientific studies, the number of diseases related to patients with chronic heart failure who have experienced COVID-19 in the developed countries of the world is increasing day by day. Taking this into account, in order to evaluate the clinical course of patients with chronic heart failure who underwent COVID-19 and to determine the effectiveness of the drug tivortin in the treatment of COVID-19, the changes in echocardiography of the heart were studied in patients with chronic heart failure who underwent COVID-19, and the effect of antioxidant therapy on the endothelial function of patients was evaluated.

**Research object and methods.** During the scientific research, 60 patients with chronic heart failure of functional class II-III were taken. Of the examined patients aged 23 to 74 years, 30 were patients with COVID-19 and 30 were patients with chronic heart failure who did not have COVID-19. 30 patients with COVID-19 were divided into 2 groups, 15 patients were treated with antioxidant Tivortin, and 15 patients were treated without antioxidant therapy. In both groups, before and after treatment, clinical symptoms of cardiovascular disease, blood biochemical indicators, cuff test results, blood coagulation rate indicators, C-reactive protein determination results, ferritin levels, ECG and ExoCG results were determined and checked in both groups. In the diagnosis of clinical symptoms in patients with chronic heart failure, clinical-laboratory and medical equipment adopted in clinical cardiology were used.

**Scientific research results and conclusion.** To determine the effectiveness of the used complex therapy, we studied the dynamics of the general blood analysis and biochemical blood analysis, that is, we analyzed the blood parameters before and after the treatment. The picture of blood parameters after complex treatment showed a positive change due to tivortin's antioxidant properties, i.e. ferritin content, biochemical indicators, blood coagulation rate and ECG results were normalized. This provides an opportunity to significantly reduce the mortality rate of patients with chronic heart failure by early detection and treatment of changes that may occur as a result of an infectious disease and are expected to cause a serious threat to the patient's life. As a result, the treatment





of heart failure comorbid with an infectious disease has been brought to a new level, and the quality of life of patients who have recovered from the disease has been improved and their lives extended.

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