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CONCOMITANT PATHOLOGY OF PATIENTS WITH COVID-19 INFECTION

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Introduction. Many studies have shown that a more severe course of COVID-19 is associated with the presence of comorbidities. Thus, the risk of hospitalization in patients with bronchial asthma is 1.5 times higher, and in patients with chronic kidney disease and diabetes mellitus - 4 and 3 times higher, respectively. Among the risk factors that significantly affect the deterioration of COVID-19, the researchers consider the following: older age, male gender, and comorbidities. For example, in the presence of concomitant hypertension, the risk of mortality increases by at least 1.7-3.5 times, and in the presence of grade I-II obesity - by 3 times. According to Pranata et al, cardiovascular and cerebrovascular pathology was the leading comorbidity in patients with COVID-19. Another meta-analysis by Pranata et al. showed the impact of concomitant hypertension on the course of COVID-19: hypertension was significantly associated with total negative outcomes of COVID-19: hazard ratio (HR) = 2.11 [95.0% confidence intervals (CI) 1.85-2.40], $p < 0.001$.

Analysis by COVID-19 outcome groups showed that hypertension was significantly ($p < 0.001$) associated with increased mortality: OR = 2.21 [95.0% CI 1.74-2.81]; severe COVID-19: OR = 2.04 [95.0% CI 1.67-2.47], $p < 0.001$; and the development of acute respiratory distress syndrome: RR = 1.64 [95.0% CI 1.11-2.43], $p < 0.001$; need for transfer to the intensive care unit: OR = 2.11 [95.0% CI 1.34-3.33], $p < 0.001$; and infection progression: RR = 3.01 [95.0% CI 1.51-5.99, $p < 0,001$].

Objective: to identify the most common comorbidities of patients with COVID-19 infection.

Materials and methods: The study was conducted at the Department of Infectious and Children's Infectious Diseases, Parasitology, Phthisiology and Pulmonology of the Kharkiv National Medical University and on the basis of the communal non-commercial enterprise (KNE) "Kharkiv Regional Infectious Hospital" of the Kharkiv City Council (KhCC) in the period 2020–2024. The necessary list of laboratory and instrumental methods was carried out on the basis of the KNE "Kharkiv Regional Infectious Disease Hospital" and on the basis of the laboratory complex of the Kharkiv Regional Blood Service Center and the "Analytika" medical laboratory.

The research was conducted in accordance with existing international and domestic bioethical norms and rules.

Were examined 179 patients with coronavirus infection COVID-19 (according to ICD XI revision - code RA01.0 "COVID-19 identified") 20-88 years old, who were treated on the basis of KNE "Kharkiv Regional Infectious Disease Hospital" of KhCC in the period 2020-2021 (main group). Were examined and 42 people of the control group (practically healthy people who are blood donors), randomized by age and sex.

Results and discussion. A high prevalence of cardiovascular disease was noted - 40.2%, type 2 diabetes mellitus - 22.3%, respiratory system diseases - 20.7%, and other diseases - 19.0%. In addition, the following diseases were noted: gastrointestinal diseases - 10.1%, heart attacks - 4.5%, neurological pathology - 2.8%, strokes - 2.8%, thrombosis - 0.6% and hypertension - 0.6%.

Conclusions. Thus, a large percentage of comorbidities among patients with COVID-19 infection was identified, which significantly aggravated the course of the underlying disease and characterized the presence of most severe and moderate forms of the disease and high mortality rates among such patients.