



REPUBLIC OF SERBIA
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Republic of Serbia
MINISTRY OF HEALTH

UNIVERSITY CLINICAL CENTRE OF SERBIA

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Abstract Book

The First World Conference
Fighting COVID-19 Pandemic
Health Challenges

**COLLECTIVE KNOWLEDGE.
GLOBAL HEALTH.**

26-28 March 2022, Belgrade, Serbia



Abstract Book

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COVID-19 and Thrombosis of Lower Limb Arteries

Irnazarov A.A.¹, Yulbarisov A.A.², Asrarov U.A.¹, Matmuradov J.K.¹

Purpose: Improve the treatment results of COVID-19 patients with thrombosis of lower limb arteries (LLA).

Methods: We analyzed 72 patients with LLA thromboses from September 2020 until January 2022, which were divided into 2 groups. Main group included 38 patients, who had COVID-19 before the admission, whereas the control group included 34 covid-free patient. All patients underwent catheter thrombolysis and thromboaspiration with urokinase.

Results: Laboratory investigation detected an increase of D-dimer— 3.2 ± 0.8 and 2.1 ± 0.5 $\mu\text{g}/\text{mL}$ and fibrinogen— 685 ± 23 and 541 ± 16 $\text{mg}\%$ at patients of the main and control group respectively. According to initial hypercoagulation, Rivaroxaban 30 mg qDay and 15 mg qDay were prescribed to patients from main and control group respectively. Average dynamic changes of these parameters: D-dimer— $2.8-2.1-1.9-1.0\pm 0.6$ and $1.9-1.3-1.0-0.6\pm 0.3$ $\mu\text{g}/\text{mL}$ and fibrinogen— $562-422-368-325\pm 12$ and $466-388-322-275\pm 10$ $\text{mg}\%$ in main and control group respectively. Bed-day length in main group was 12 ± 2 days, in control 9 ± 2 days. Despite the performed thrombolysis and thromboaspiration in 2 cases of the main group, there were established rethrombosis, whereas in the control group—1. Mortality was 1 in main group and 0 in control group.

Conclusion: COVID-19 in anamnesis influences on hemostasis by tipping a balance to hypercoagulation, which has malignant tendency and unfavorable consequences are high accordingly. The absence of unified anticoagulant therapy, coagulation balance disturbance in patients who had coronavirus infection and poorly studied long-term treatment results reveal the necessity of further studies.

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1 Challenges facing the health systems during the pandemic

2 COVID-19 diagnostics, immunization and prevention

3 State-of the art approach to COVID-19 treatment with emphasis on multidisciplinary team work