

**TITLE: Thromboembolic incidents in SARS-COV-2 infections**

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**ABSTRACT**

Research goal is to show the overall incidence of thromboembolic incidents in patients treated in the COVID Intensive Care Unit, Clinic for Anesthesiology, Intensive Care and Pain Management at Clinical Hospital Centre Rijeka. We wanted to show gender and age groups of these patients, most common comorbidities, and complications. We investigated what is the most common thromboembolic incident in patients treated for COVID-19 disease. Furthermore, we wanted to show potential relationship between inotropic support and invasive monitoring with the incidence of thromboembolic incidents.

Research methods were review of literature, data collection and statistical analysis of collected data in the period from March 28, 2020 to June 30, 2021.

Several mechanisms are thought to contribute to increased risk of thromboembolism in COVID-19 disease. The leading risk factors for the development of thromboembolism in patients with COVID-19 disease are age, sex, and comorbidities, especially those associated with cardiovascular diseases. Platelet activation, patient immobilization, mechanical ventilation and use of invasive monitoring are other factors that contribute to thromboembolism in COVID-19 disease. Asymptomatic individuals with COVID-19 disease and those with mild symptoms have a very low risk of thrombotic complications. However, thrombosis rates are significantly increased in hospitalized patients and are extremely high in patients who are in critical condition and require intensive care treatment. Further studies are needed to investigate the individualized risk of thromboembolism in patients with COVID-19 disease and optimal preventive anticoagulant therapy.

## **BIOGRAPHY**

My name is Tanja Matkovic, I was born in 1977 year in the city of Rijeka. After graduating from Medical High School in Rijeka I was employed as a nurse at the Clinical Hospital Center Rijeka in the Department of Anesthesiology, Intensive Care and Pain Management. I've been working at the Intensive Care Unit for 25 years.

I worked 11 years in a General Intensive Care Unit and for fourteen years I have been working in the Intensive Care Unit of Cardiac Surgery Patients. During the COVID-19 pandemic, I worked for a year at the COVID Intensive Care Unit.

While working in the Intensive Care Unit of Cardiac Surgery Patients, I gained knowledge, experience and license to work with patients on Veno/Venous and Venous/Arterial extracorporeal membrane oxygenation (ECMO).

I graduated in 2021 at Faculty of Health Studies, University of Rijeka and acquired the title of professional Bachelor of Science in Nursing.

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**Mode of presentation:** Oral

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