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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 Cerebrovascular Diseases

Shavkat Karimov¹, Abdurasul Yulbarisov¹, Hojiakbar Alidjanov¹,
Rustam Muminov¹, Viktoriya Tsay¹, Abduvali Jalilov¹

Background. Ischemic stroke (IS) and thrombosis of carotid arteries are life-threatening complications of coronavirus disease 2019 (COVID-19) infection. Increasing reports suggest an association between COVID-19 and IS, although the underlying mechanism remains uncertain. **Material and Methods.** We analysed single-centre experience to characterise the clinical characteristics, neuroimaging findings, and outcomes of IS in COVID-19 patients from 1st December 2019 to February 2022.

Results. All cases reporting IS occurrence in COVID-19 patients were included. The pooled incidence of AIS in COVID-19 patients from observational studies was 3.3% (48/1466) with a mean age of 63.4 ± 13.1 years. The mean duration of IS from COVID-19 symptoms onset was 10 ± 8 days, and the mean NIHSS score was 19 ± 8 . Laboratory investigations revealed an elevated mean d-dimer (9.2 ± 14.8 mg/L) and fibrinogen (5.8 ± 2.0 g/L). Antiphospholipid antibodies were detected in a significant number of cases. The majority of IS neuroimaging patterns observed was large vessel thrombosis, embolism or stenosis (62.5%, 30/48), followed by multiple vascular territory (27%, 13/48).

Conclusions. We report the incidence of IS in COVID-19 patients to be 3.3%, with a high mortality rate. Elevated d-dimer, fibrinogen and the presence of antiphospholipid antibodies appear to be prominent in COVID-19 patients with concomitant IS, but further mechanistic studies are required to elucidate their role in pathogenesis.

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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