







Abstract Book

The First World Conference Fighting COVID-19 Pandemic Health Challenges

COLLECTIVE KNOWLEDGE. GLOBAL HEALTH.

26-28 March 2022, Belgrade, Serbia









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Publisher:

MEDAPP Association, Belgrade, 2022

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Print

Grafolik, Belgrade

Print run

1300

ISBN: 978-86-80916-01-9

Belgrade, 2022



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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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CIP - Каталогизација у публикацији - Народна библиотека Србије, Београд

616.98:578.834(048)(0.034.2)

WORLD Conference Fighting COVID-19 Pandemic - Health Challenges (1st; 2022; Beograd)

Collective Knowledge, Global Health [Elektronski izvor] abstract book / The First World Conference Fighting COVID-19 Pandemic -Health Challenges, 26-28 March 2022, Belgrade, Serbia ; [editor in chief

Tatjana Adzic Vukicevic]. - Belgrade : MEDAPP Association, 2022 (Beograd : Grafolik). - 1 USB fleš memorija ; 1 x 2 x 5 cm

Sistemski zahtevi: Nisu navedeni. - Nasl. sa nasl. strane dokumenta. -

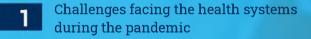
ISBN 978-86-80916-01-9

Tiraž 1.300.

а) Ковид 19 - Мултидисциплинарни приступ - Апстракти b) Ковид 19 -

Пандемија - Апстракти

COBISS.SR-ID 61594377



- 2 COVID-19 diagnostics, immunization and prevention
- 3 State-of the art approach to COVID-19 treatment with emphasis on multidisciplinary team work