E-LETTERS: COMMENTS AND RESPONSES

COVID-19 and Recurrent Status Epilepticus

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To the Editor,

we would like to discuss on "Recurrent Status Epilepticus and SARS-CoV-2 infection: the "perfect storm (1)." Pauletto et al. mentioned for "the possibility of SE recurrence in patients with pre-vious SE as clinical manifestation or consequence of SARS-CoV-2 disease (1)." The clinical association between SE and COVID-19 is interesting. COVID-19 might aggravate recurrence of SE or the recurrence might be a co-incidence. The pathogenesis of SE is interesting. The viral infection might direct cause neurological problem or the problem might be due to immunopathological process. From a previous EEG study, it is evidenced that infection did not cause "increased propensity of epileptiform discharges on EEG (2)". Another possible underlying pathogenesis might be due to increased blood viscosity due to COVID-19 (3). COVID-19 can induced hyperviscosity (3) and hyperviscosity is a known trigger factor for SE (4, 5).

References

- Pauletto G, Nilo A, Deana C, et al. Recurrent Status Epilepticus and SARS-CoV-2 infection: the "perfect storm. Acta Biomed 2021; Vol. 92, N. 5: e2021208
- Gogia B, Thottempudi N, Ajam Y, et al. EEG Characteristics in COVID-19 Survivors and Non-survivors With Seizures and Encephalopathy. Cureus 2021;13(10):e18476. doi: 10.7759/cureus.18476.
- 3. Joob B, Wiwanitkit V. Blood viscosity of COVID-19 patient: a preliminary report. Am J Blood Res 2021;11(1):93-95.
- 4. Sugimoto T, Matsumura T, Sakamoto Y, Taniuchi K. Running and laughing fits as the sequelae of the neonatal hyperviscosity syndrome. Brain Dev;1(4):323-6.
- 5. de la Fuente MI, Alderuccio JP, Lossos IS. Central nervous system emergencies in haematological malignancies. Br J Haematol 2020;189(6):1028-1037.

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