



# **TRANSIENT GLOBAL AMNESIA AS A POSSIBLE MANIFESTATION AFTER COVID-19 INFECTION. CLINICAL CASES**

## **Introduction:**

Since the beginning of the COVID-19 pandemic, an increasing number of patients with Transient Global Amnesia (TGA) was attested in neurological emergency departments [1,2]. However, there is limited data on the mechanism of TGA linked with COVID-19, in the convalescence period.

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EEG - slow polymorphic activity in the bilateral Fig. 1 temporo-frontal cortical areas, predominantly on the right

**Conclusions:** Novel coronavirus may be implicated in possible pathophysiological mechanisms, involving the frontal and temporal lobes, which might trigger TGA. Further studies are required.

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Material and methods: 2 clinical cases of TGA, manifested during the convalescence period of the COVID-19 infection.

## Results



Case no. 1 A 62-year-old man, that suffered a mild form of COVID-19 infection in February 2021, he presented an episode of TGA within one month. **Brain MRI was normal.** 

### References

Werner, R., Keller, M. & Woehrle, J.C. Increased incidence of transient global amnesia during the Covid-19 crisis?. Neurol. Res. Pract. 2, 26 (2020). Hussein HM. Transient Global Amnesia as a Possible First Manifestation of COVID-19. *The Neurohospitalist*. 2021;11(1):84-86.

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## Case no. 2 A 68-year-old man with TGA, 4 months after a severe COVID-19 pneumonia. Fronto-temporal, bilateral, cerebral atrophy was established on brain MRI.

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**Purpose:** To analyze the possible linkage between SARS-CoV-2 infection and TGA in two patients, during the convalescence state.

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### EEG showed **no changes**.

## Keywords: COVID-19, transient global amnesia.