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Associated Neurocysticercosis, Covid-19, and HIV: Novel hypotheses and comprehensive review

Humberto Foyaca Sibat, Lourdes de Fátima, Ibañez Valdés

Walter Sisulu University, South Africa

Background: On November 24, 2021, the omicron (B.1.1.529) variant of SARS-CoV-2 was first reported to WHO from this country. Whether the association of omicron (Om) variant of concern (VoC), neurocysticercosis, and cerebellar atrophy (CA) in peoples living with HIV/AIDS (PLWHA) is actual or fictitious, require to be investigated and what is the most probable pathogenesis of SARS-CoV-2 mutation deserved to be analyzed.

Method: We performed a comprehensive search of publications on PLWHA/NCC/CA/COVID-19-Omwritten in English, Spanish, and Portuguese.

Results: Forty-five cases presented COVID-19 and cerebellar manifestations, mainly cerebellar ataxia with a mean age of 54.3 ± 12.3 years, were identified. No patients presenting an associated HIV/AIDS/NCC/Om VoC were found.

Comments and Conclusions: We considered theca in our patient is secondary to prolonged consumption of antiepileptic medication. The current fourth wave of COVID-19 is heralded by the Om VoC, which is speedy spreading worldwide, suggesting it has a growth advantage. In our opinion, those fully vaccinated infected by Om, after recovery from their "Flu", will remain super immunized, which will probably be the beginning of the end of the current pandemic. Seems to be that SARS-CoV-2 Om VoC does not cause additional injuries on patients presenting NCC/HIV/AIDS/CA. The role of SARS-CoV-2 speedy the mechanism of T cell exhaustion and its capacity to diminish the production of INF γ , IL-2, and TNF α must not be ignored in future medical research. As far we know, it is the first report on PLWHANCAOm reported in the medical literature up to date.

Recent Publications

1. Humberto F S, Lourdes d F, Ibañez V. Bilateral Putaminal Haemorrhage and Blindness in Times of the Coronavirus Pandemic and Dysbiosis: Case Report and Literature Review
2. Humberto F S, Lourdes d F, Ibañez V. Intracranial Hypotension after Severe COVID-19: Case Report and Literature Review
3. Humberto F S, Lourdes d F, Ibañez V. Comorbidity of Neurocysticercosis, HIV, Cerebellar Atrophy and SARS-CoV-2: Case Report and Systematic Review

Biography

Humberto Foyaca Sibat graduated as a Medical Doctor from Havana University in 1971. He has been a first degree specialist in neurology since 1975 and Second Degree Specialist of Neurology since 1984. He has also achieved his PhD, MSc, Full Professor and Full Scientist Researcher. He is working as an Associate Professor in the Faculty of Health Sciences at Walter Sisulu University (South Africa) and Nelson Mandela Central Hospital in Mthatha as a Head of Department of Neurology since 1997.

humbertofoyacasibat@gmail.com