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Neuroinvasion Mechanism of SARS-CoV-2 and its Neurological Implications: A Review

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Abstract

Severe Acute Respiratory Syndrome Coronavirus-2 (SARS-CoV-2) is currently causing a global pandemic and endangering many lives. The most typical signs and symptoms of coronavirus disease 2019 (COVID-19) are fever, pneumonia, dry cough, and fatigue. Although SARS-CoV-2 is primarily associated with respiratory illnesses, new evidence indicates that the novel virus might also infect the nervous system, resulting in headaches, seizures, dizziness, strokes, aneurysms, encephalitis, myelitis, and other neurological disorders. Despite an increase in SARS-CoV-2 clinical neuro-logical diseases, the exact cause remains unclear, and the mechanism of infection of SARS-CoV-2 uncertain. This study aimed to review the virus invasion by which SARS-CoV-2 may directly or indirectly change the functional and structural features of the nervous system. Also, this review analyzed the most typical neurological signs and complications and neurological side effects associated with COVID-19 treatment.

Keywords: [COVID-19 infection](#), [Neurological disease](#), [COVID-19 neurological complications](#), [pandemic](#), [SARS-CoV-2 infection](#)