

Neurological complications of SARS-CoV-2

Entry pathways

ACE2 pathway

Airways/GI system--> epithelial barrier --> blood stream --> BBB--> CNS

Infect Leukocyte which cross the BBB --> CNS.
Leukocytes release cytokines which damage oligodendrocyte and neurons.

Olfactory bulb and upper nasal transcribrial pathway

SARS-CoV-2 spreads transneuronally to different zones of the brain

Neurological complication mechanism

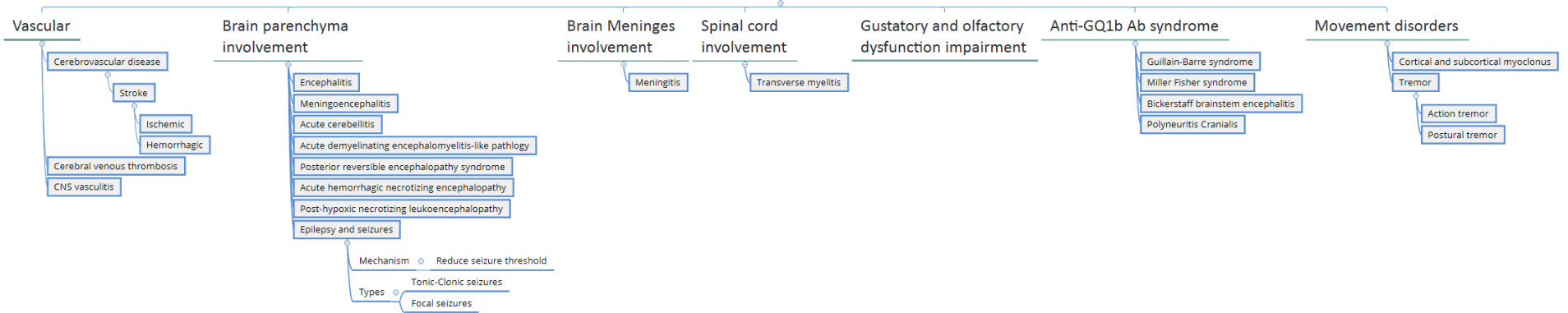
Consequences of pulmonary disease and associated systemic disease

direct invasion of the CNS by virus

Post-infectious, immune-mediated complications

By Zhenhua Gui (2022)

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