# **COVID-19 Neurocritical Care**



## **Associated Clinical Findings**

- CNS\*: Encephalitis, postviral encephalopathy, acute demyelinating encephalomyelitis, stroke (ischemic and hemorrhagic), seizures, status epilepticus
- PNS^: Myositis, critical illness myopathy/neuropathy

# Wide spectrum of neurological complications

Similar treatment strategies as those for non-COVID-19 patients



#### **Phases**

- Viremic phase: Neuroinvasive potential
- Inflammatory phase: Immune dysregulation
- Coagulopathy and endotheliopathy
- Treatment-related adverse effects



### **Diagnostic Considerations**

- High clinical suspicion
- Diagnostic challenges due to sedation, paralysis, limitations in imaging, continuous EEG capabilities
- Electrodiagnostic studies
- Cerebrospinal fluid sampling



#### **Outcomes**

- Short-term outcomes determined by severity of COVID-19 + neurological manifestation
- Long-term outcomes: TBD
- Post-intensive care syndrome (PICS), fatigue, "brain fog"

