# 코로나19와 뇌전증



### 문 장 섭

서울대학교병원 희귀질환센터 신경과

## **COVID19** and Epilepsy

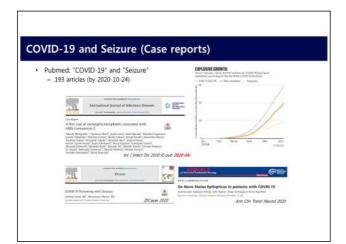
### Jangsup Moon, MD, PhD

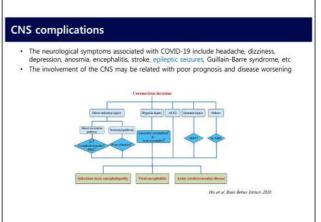
Rare Disease Center, Department of Neurology, Seoul National University Hospital

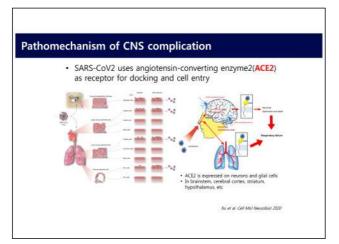
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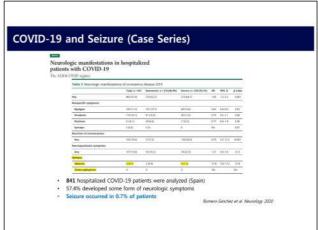
- · Does COVID-19 cause seizure/epilepsy?
- Important considerations for patients with epilepsy in COVID-19 era

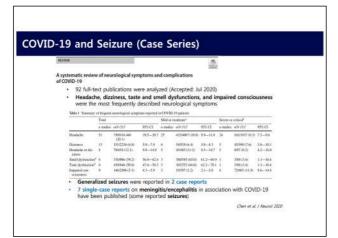
Does COVID-19 cause seizure/epilepsy?

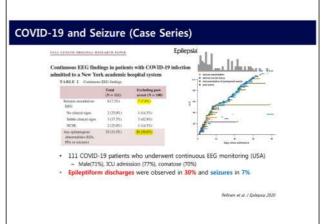












Important considerations for patients with epilepsy in COVID-19 era

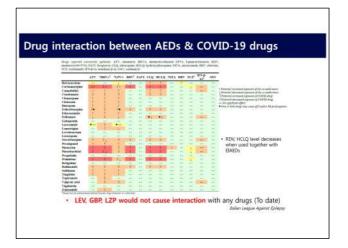
### Do Epilepsy patients have higher risk for COVID-19?

- "Neurological comorbidities (including epilepsy) may be a risk factor for COVID-19"
  - Suggested by CDC, without any evidence
- To date, history of epilepsy has not been reported to be a risk factor for COVID-19
- Epilepsy itself seems unlikely to be a risk factor for COVID-19
- Immunomodulatory drugs, steroid may increase the risk of infectious disease

### Effect of COVID-19 on patients with epilepsy

- Changing AEDs in patients with well-controlled seizure are not recommended
  - Seizure exacerbation or SE may increase the risk of COVID-19
- · Patients should avoid running out of AEDs
  - Going to ER may expose the patient to COVID-19
- · Do COVID-19 increase the risk of SUDEP?
  - Some reports suggest that infections might increase the risk of SUDEP
  - No data on the association between COVID-19 and SUDEP, until now

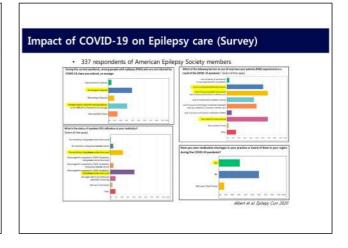
Koroda et al. Epilepy Behiev 2020



### **Epilepsy monitoring units and Surgery**

- During the serious pandemic of COVID-19,
   Video-EEG monitoring & Elective surgical treatments for epilepsy may be postponed to prevent further spread of COVID-19 among medical staff and patients
- · However, some patients have progressive condition of epilepsy
- The real risk of proceeding and the real risk of delay on intervention should be considered case by case

Koroda et al. Epilepy Behav 2020



# Other studies... \*\*\*The studies of the studies of

### Summary

- · COVID-19 can cause CNS complications
- · Seizure is not the major manifestation of the CNS complication
- Seizure or EEG abnormalities (epileptiform discharges) may occur more often in severely-ill COVID-19 patients
- Epilepsy seems unlikely to be a risk factor for COVID-19
- Changing AED in well-controlled patients is not recommended during the COVID-19 pandemic
- EIAEDs may reduce the blood level of some COVID-19 drugs
- Accessibility to medical service may be reduced in patients with epilepsy during the COVID-19 pandemic