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Trilogy: Epileptic Seizure, Stroke, and Possible Neuro Psychiatric Lupus, a Diagnostic Challenge in Isolated Area

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Introduction

Seizure can affects people of ages, races, and ethnic backgrounds. This can cause changes in awareness, behaviour, decrease brain function, and/or abnormal motoric and sensory loss (Schahter, 2019). First onset of seizure should be find the etiology. Epilepsy is a common complication after stroke (AHA, 2015), and epilepsy increase risk of stroke (Stefanidou, 2017). There is an association between epilepsy, stroke, and systemic lupus erythematosus (SLE) (EJN, 2019).

Case Report

Male, 22 yo, came to Agats hospital, with acute onset decrease of consciousness presenting with seizures. General seizures unprovoked with sign of lateralisation. Diagnosis epilepsy was made, stroke and neuropsychiatric lupus was made as differential diagnosis due to young and middle-aged adults onset. Patient presented with E1V1M1, blood pressure 140/90 mmHg. Complete blood count shows within normal limit. Random blood sugar was 110 mg/dl. Human immunodefficiency virus (HIV) 3 methods show non reactive result. Head CT scan nor electroencephalography (EEG) were not available in the hospital. Referral acceess also to be limitted, due to geographic isolated area, and limitted transportation resources. Based on American College of Rheumatology criteria for Lupus, also could not be excluded. Antiepileptic drugs carbamezepin was given (the intravenous antiepileptic drugs was not available), multivitamin and neurotropic agents for stroke, and steroids was given for Lupus possibility. After a week of treatment, patient had already got improvement, and then got full consciousness.

Conclusion

Epileptic seizure, stroke, and neuro psychiatric lupus, have a diagnostic challenge in isolated area. Treat possibilities and education have an important role.

Keywords: Epilepsy, Stroke, Neuro Psychiatric Lupus

Figures



Figure 1. Male, 22 yo, with epilepsy, stroke, and possible neuro psychiatric lupus, in Agats General Hospital, Asmat district, Papua, Indonesia



Figure 2. The Location of Isolated Area, Agats General Hospital, Asmat district, Papua, Indonesia

Biography

Rakhmad Ramadhan has completed his internist from Brawijaya University, Indonesia. He is the Internist at Agats General Hospital, Asmat distrct, Papua, Indonesia. He concern about serial unique cases that found in isolated area, due to the low education of civilitation, primitive thingking about helathy, the limited resources to perform supporting examination and treatment, and limitted access to referral treatment.

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