

ABSTRACT

Introduction: Epilepsy is a disease with high morbidity and mortality including neuropsychological impairment. One type of epilepsy is temporal lobe epilepsy that is suffered by many worldwide. In Southeast Asia, 1% of the populations are affected which approximately 15 million people. There are no specific number of prevalence in Indonesia but it is probably similar to any other country in Southeast Asia through the similarities in demographic and socio-cultural characteristics. To the best of our knowledge, limited data on this pathology in Indonesia has yet abundance. Thus, this study was aimed to determine the profile of adult patients aged ≥ 18 years old with temporal lobe epilepsy based on their EEG medical record in Neurology Clinic, RSUD Dr. Soetomo within January - December 2016.

Method: This study is a cross-sectional analysis of patient's EEG data of male and female patients with temporal lobe epilepsy in RSUD Dr. Soetomo from January - December 2016 and aged ≥ 18 years. Variables included the gender, age, body mass index, last educational history, jobs, home-address, seizure duration, location of potential epileptogenic seizure, type of pathology and sender's early diagnosis.

Results: There were 131 male and female patients, with 78 people are females and 53 males. Temporal lobe epilepsy was found more frequently in female patients (60.30%) than men (39.70%), predominantly between 50-54 years old (16.72%), most patient have BMI in the normal category (51.14%), mostly had senior high school as highest education level (25.19%), mostly housewives (16.03%), patients dominantly from Surabaya (57%), with the most frequent seizure duration between 1-5 minutes (58.01%), the most common potential epileptogenic seizure location in the left temporal lobe (29.64%), patients have commonest pathology of cerebral neoplasms (9.12%), and was diagnosed by status epilepticus (19.76%).

Conclusion: During January to December 2016, the predominant adult patients suffered from a temporal lobe epilepsy in RSUD Dr. Soetomo, Surabaya, Indonesia were 50-54 years old female housewives senior high school educated, live in Surabaya who have normal BMI. These patients mostly have cerebral neoplasm and usually suffered from 1-5 minutes of left temporal lobe epilepsy that developed into a status epilepticus.

Keywords: *temporal lobe epilepsy, epileptogenic, pathology, seizure*