

Anti Epileptic Drugs; A Prospective Data Collection On The Usage In Sarawak General Hospital

Dr Radzi Hamzah¹

¹Neurosurgery/ Sarawak General Hospital/ Malaysia

Purpose:

Anti epileptic drugs (AED) usage is a norm amongst neurosurgical patients; which mainly for seizure prevention. This audit is done to mainly ascertain the usage of anti epileptic drugs and incidence of seizure amongst neurosurgical patients in Sarawak General Hospital.

Materials and Methods:

This is a prospective data collection of anti epileptic drug usage; from June to December 2017 in Neurosurgical Department, Sarawak General Hospital. The inclusion criteria mainly all inpatients patients that is admitted under neurosurgery during that period. All data; type of AED, incidence of seizure, scan findings, Therapeutic Drug Monitoring (TDM) level, any side effects, rate of conversion of AED from one type to another and the reason for it, are collected during patient admission until discharge.

Results:

A total of 210 patients are involved in this study and further sub-categorised into 9 categories which are Aneurysm, AVM, Trauma, Tumour, Infarct, Hypertensive bleed, Congenital, Cranioplasty, Infection. Subsequently, incidence of seizure in sub-categories are recorded and tabulated. Based on our data, the highest number of usage of AED are seen amongst trauma patient which followed by tumour and aneurysm patients but the highest incidence of seizure are seen in patients with congenital abnormality (account for 50%) followed by tumour patients (21%) while only 10% seizure seen in trauma.