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Abstract Topic: - Clinical Genetics

Abstract Title: - Prevalence of chromosomal abnormalities in idiopathic adult epilepsy - A hospital based cross sectional study

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Aims: - 1.To determine the prevalence of different chromosomal abnormalities associated with idiopathic epilepsy by karyotyping

2.To look for the association of different type of chromosomal abnormalities with epilepsy.

Methods: - Study participants were 75 epileptic patients, confirmed by EEG, evaluated by a neurologist and referred to the Division of Human Genetics for karyotyping. All cases of idiopathic epilepsy in patients above 12 years of age, with an informed consent, were included for the study. Seizures due to structural, infectious, metabolic or immunologic causes were excluded. Peripheral lymphocyte culture was done and the 450 band chromosomes were studied.

Results: - 5.3% of the 75 karyotypes revealed structural / numerical abnormalities.

Conclusions: - Chromosomal causes, if identified, helps to study further and localise the gene. The genetic mechanisms involved in epilepsy can be elucidated and in the current era of personalised medicine, treatment options can be modified so as to bring in long term benefits.

Keywords: - 5.3% of the 75 karyotypes revealed structural / numerical abnormalities.