Arman Hashemi et al., J Neurol Disord 2016, 4:6(Suppl)
http://dx.doi.org/10.4172/2329-6895.C1.011

Epilepsy: Significant symptom in chromosomal abnormalities

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Epilepsy is a group of neurological disorders in which neuron's signaling is corrupted. This condition characterized by a long-term risk of recurrent seizures and affects up to 1% of the general population. Excessive and abnormal brain cortex nerve cell activity resulted in these conditions. Chromosomal abnormalities consist of the every change to the structure and the number of chromosomes. These alterations could develop syndromes in which different organs of the body manifest the systematic or specific symptoms. Growth retardation, physical and mental problems, developmental errors in central neural system, etc. could be seen. There are specific chromosomal abnormalities that manifest epilepsy as one of their symptoms. These syndromes include; Wolf-Hirschhorn syndrome which occurs due to deletion in short arm of chromosome 4 and almost 70% of patient with this condition have epilepsy; Angelman syndrome, which is caused by a deletion in maternal chromosome 15 or paternal uniparental disomy (UPD) of chromosome 15. Until age 3, more than 80% of affected with this condition develop seizures. Approximately up to 15% of patients with Down syndrome develop epilepsy. Other trisomies such as trisomy 18 (Edwards syndrome), trisomy 13 (Patau syndrome) and trisomy 22 can result in epilepsy in 20% to 25% of the cases. Ring chromosome abnormalities also account for 2% to 3% of cases of epilepsy.

Biography

Arman Hashemi is a Medical student at Bushehr University of Medical Sciences, has one accepted patent. He has submitted 3 national and international papers in Iranian and international journals. He is a member of Student Researches Committee, member of the Persian Gulf Biomedical Research Center and member of Talented and Gifted Students Organization. He received Deserved Student Award of Bushehr University of Medical Sciences.

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