



## Hippocampal volume in childhood seizures

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| ARTICLE INFO                                                                                                                                                                                                             | ABSTRACT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <p><b>Article type</b><br/>Review article</p> <p><b>Article history</b><br/>Received: 18 Feb 2014<br/>Revised: 5 Mar 2014<br/>Accepted: 16 Mar 2014</p> <p><b>Keywords</b><br/>Children<br/>Epilepsy<br/>Hippocampus</p> | <p>Many children with hippocampal sclerosis underwent surgery for treatment. Early childhood convulsion occurs in 2 to 4% of population and its prognosis is good in majority of cases. It seems that hippocampal anomalies are common in patients with neocortical epilepsies. The theory of hippocampal sclerosis association with temporal lobe epilepsy has been proposed 100 years ago. Recent studies demonstrated that there was a correlation between memory impairments and prolonged febrile convulsion (PFC), which might be a result of hippocampal injury. Transient hippocampus swelling might happen in complicated early childhood epilepsy or status epilepticus and result in hippocampal sclerosis.</p> |

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## Introduction

Epilepsy is one of the common chronic neurologic disorders. It is estimated that 10% of world population will experience at least one seizure attack in their lifetime (1). Epilepsy occurs in 46 to 48 per 100000 individuals (2). Complex partial seizures (CPS) which represent underlying temporal

lobe epilepsy are the most frequent type of seizures in adults (2). Complex partial seizures were previously identified as temporal lobe seizures or psychomotor epilepsy (3). CPS might progress to generalized tonic clonic seizures; unfortunately 30% of complex partial

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