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Neural pathway damage of retrograde memory in Epileptic patients with older anti-epileptic drugs

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Introduction: Memory is a very important field of cognitive function. Retrograde memory is the past memory that makes the information treasure of life for every person. With regard to the importance of memory, it seems that the evaluation of it in patients with risk of memory deficit is necessary. Epileptic patients are at a high risk of memory decline.

Methods: In this study, our subjects were thirty grand mal epileptic patients under treatment with the older generation of epileptic drugs (carbamazepine or valproate sodium or phenobarbital). The types of memory are evaluated by Persian version of Addenbrook's cognitive examination.

Results & Discussions: In the study, all types of memory are definitely damaged but they have the variety of 20 until 100 percent of our subjects. Only one type of memory that has a decline for 100% of subjects was retrograde memory. Prefrontal and temporal cortex is two essential sites for that. It seems that the pathway between the prefrontal cortex and the hippocampus involve some kind of disconnection. Researchers in this study have some suggestions for the future study of epileptic patients who have taken older antiepileptic drugs. These suggestions will be discussed in this congress.

Biography

Saeideh Saleh Pour has completed her Diploma. She is an Intern of Medicine at Lorestan University of Medical Science (LUMS). She is interested in research, specially in Neurology.

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