

Cognitive deficits and behavioral disorders in childhood partial seizures

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The aim of this work was to shed light on the nature of the cognitive deficits and behavior disorders in epileptic patients with normal IQ. A total of 140 children with partial epilepsy and 50 control children with an age ranging from 8 to 16 years was subjected to a group of laboratory, neurophysiological, radiological and psychometric assessments. The results revealed that the performance of epileptic patients was significantly worse than that of the control children in all applied psychometric tests for cognitive abilities and behavioral characteristics. The performance of patients who were on polytherapy was worse than that of these who were on monotherapy. There were significant negative correlations between the severity of EEG changes and the performance of the applied psychometric tests for cognitive abilities. There were significant negative correlations between the P300 latencies and the performance of the tests for the evaluation of cognition and behaviors. It was concluded that epilepsy has a bad impact on both cognitive and behavioral characteristics of children.