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Increased excitability and metabolism in pilocarpine induced epileptic rats: Effect of *Bacopa monnieri*.

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Abstract

We have evaluated the acetylcholine esterase and malate dehydrogenase activity in the muscle, epinephrine, norepinephrine, insulin and T3 content in the serum of epileptic rats. Acetylcholine esterase and malate dehydrogenase activity increased in the muscle and decreased in the heart of the epileptic rats compared to control. Insulin and T3 content were increased significantly in the serum of the epileptic rats. Our results suggest that repetitive seizures resulted in increased metabolism and excitability in epileptic rats. *Bacopa monnieri* and Bacoside-A treatment prevents the occurrence of seizures there by reducing the impairment on peripheral nervous system. Copyright © 2010 Elsevier B.V. All rights reserved.

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