Reactive astrogliosis in an experimental model of fibromyalgia: Effect of dexmedetomidine.

Rasha B. Abd-ellatif, Heba K. Mohamed, Hassan I. Kotb

Abstract:

To our knowledge, it is the first study which investigates the induction of neuroinflammation in rats by acidic-saline model of fibromyalgia. It is well known that the hippocampus has a fundamental role in pain perception and the astrocytes play a crucial role in pain signaling. Our aim is to evaluate the ability of dexmedetomidine to attenuate the inflammatory response induced in astrocytes. In a group of healthy rats, induction of chronic muscle pain by I.M. injection with 100 µL of acidic saline on day 0 and 5, resulted in peripheral sensitization (measured by von-Frey test) and significant (p

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