

# عنوان مقاله:

Ischemic and Reperfusion Injury of Adult Rat Sciatic Nerve

# محل انتشار:

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### خلاصه مقاله:

Background and Objective: Ischemia plays a major role in development of pathological changes in various neuropathies. Reperfusion amplifies physiological and pathological abnormalities in ischemic nerves. In this research, we studied ischemic-reperfusion (IR) injury of sciatic nerve up to 1F days of reperfusion. Materials & Methods: IR was produced by ligation and release of nooses around supplying vessels to the sciatic nerve. Ψο rats were assigned into Δ groups of F. Group I (control) did not undergo IR while the F remaining groups after three hours of complete hind leg ischemia underwent reperfusion within ohr, Whrs, V days and NF days. Results: Pathologically, two phases were identifiable. During phase ۱ (o- ۳ hrs) fiber degeneration and endoneurial edema were observed. During phase ۲ ( Y days and, IF days) prominent fiber degeneration and prominent endoneurial edema were observed. Loss of function occurred in more than Ya% of the rats with ischemia alone, in comparison with the control group the maximum reduction in activities was observed amongest the group of rats reperfused within "hours. Conclusion: IR injury depends on duration of reperfusion. Microvascular events during reperfusion may enhance the nerve fiber damage .following the ischemia period

**کلمات کلیدی:** Ischemia, Reperfusion, Sciatic nerve.

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