

Comparative neurophysiological assessments of nerve sutures performed by microsurgical methods and with fibrin glue: Experimental study.

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Abstract:

The authors carried out an experimental study to compare the regeneration of nerves repaired with human fibrin glue and those sutured with nylon. The experiments were performed on rat peroneal nerves; the degree of regeneration was assessed by the neurophysiological strain gauge method, which involved recording the intensity of isometric contraction of the extensor digitorum longus muscle, which is innervated by the peroneal nerve. The results showed that the nerves 'glued' with fibrin exhibited better regeneration than those repaired by suture.