

张立宁, 王兴林, 刘子洋, 魏正茂, 郭义柱, 郑一琼. 被动运动对家兔周围神经挤压伤后功能恢复的影响[J]. 中国康复医学杂志, 2007, (6): 492-

被动运动对家兔周围神经挤压伤后功能恢复的影响 [点此下载全文](#)

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基金项目: 战后康复技术研究, 全军“十一五”计划专项课题(200626Z000058)

DOI:

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摘要:

目的: 探讨被动运动对周围神经挤压伤后神经功能恢复的影响。方法: 用电生理学的方法观察被动运动对周围神经挤压伤后早期再生和运动功能恢复的影响, 并与夹板固定组进行比较。结果: 康复训练组神经传导速度比夹板固定组快, 比较差异有显著性意义 ($P < 0.05$), 康复训练组的波幅比夹板固定组低, 差异无显著性意义 ($P > 0.05$), 康复训练组的潜伏期比夹板固定组短, 差异有显著性意义 ($P < 0.05$)。康复训练组的髓鞘厚度、单位面积的有髓纤维数目、再生轴突直径均比康复训练组大, 差异有显著性意义 ($P < 0.05$)。康复训练组小腿三头肌湿重和肌细胞直径比夹板固定组大, 前者差异有显著性意义 ($P < 0.05$), 后者差异无显著性意义 ($P > 0.05$)。结论: 被动运动能促进神经挤压伤后早期再生和运动功能的恢复。

关键词: [周围神经 / 挤压伤](#) [被动运动](#) [电生理学](#) [组织学](#) [神经再生](#) [功能恢复](#)

Effect of passive exercise on neural functional recovery of rabbits after peripheral nerve crush injury [Download Fulltext](#)

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Abstract:

Objective: To investigate the effect of passive exercise on neural functional recovery after peripheral nerve crush injury. Method: The effect of passive exercise on early peripheral nerve regeneration and recovery of motor function were observed by electrophysiological and histological indexes compared with that of the splinting group. Result: The latency of compound muscle action potentials(CMAP) in the exercise training group was shorter than the splinting group it was significantly different between the two groups. The amplitude was higher in the exercise training group, as compared with the splinting group but there was no significant difference between the two groups. The nerve conduction velocity of exercise training group was faster than that in the splinting group and it was significantly different between the two groups. The thickness of myelin sheath, average numbers of myelinated nerve fiber a per area and diameter of regenerating axon were larger than the splinting group. And it was significantly different between the two groups ($P < 0.05$). The wet weight and diameter of musculus triceps surae of exercise training group were heavier and bigger than the splinting group, and it was significantly different between the two groups ($P < 0.05$). Conclusion: The passive exercise may be helpful to improve the early recovery of motor function and regeneration after peripheral nerve crush injury.

Keywords: [peripheral nerve crush injury](#) [passive exercise](#) [electrophysiology](#) [histological](#) [nerve regeneration](#) [functional recovery](#)

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