黄美玲,杨万章,范佳进,龙建军,朱晓龙,王玉龙.早期使用踝足矫形器对脑卒中偏瘫患者步行功能影响的表面肌电信号研究[J].中国康复医学杂志,2014,(5):446~450

早期使用踝足矫形器对脑卒中偏瘫患者步行功能影响的表面肌电信号研究

点此下载全文

黄美玲 杨万章 范佳进 龙建军 朱晓龙 王玉龙

深圳大学第一附属医院(深圳市第二人民医院)
康复医学科，深圳，518000

基金项目：

DOI：

摘要：

摘要目的：观察早期应用佩戴踝足矫形器（AFO）进行康复训练治疗脑卒中患者偏瘫步态的临床疗效。方法：将63例脑卒中患者随机分为治疗组（Z组）和对照组（D组）。两组均按常规予以对症支持治疗和康复治疗，治疗组在对照组基础上加用AFO，康复训练4周后进行评定。治疗前后分别采用二维步态分析仪、表面肌电图机及相应量表评定两组患者的步行能力（包括步态参数及步行功能分级）、踝关节控制肌群（胫前肌及腓肠肌外侧头）的积分肌电值（iEMG）、运动功能、平衡功能、日常生活活动能力。结果：治疗前后对比，治疗组步行能力的差异有显著性意义（P＜0.01）；对照组步行能力的差异也有显著性意义（P＜0.01）。治疗后治疗组步行能力、下肢运动功能、平衡功能、日常生活活动能力、踝关节控制肌群肌力与对照组相比差异有显著性意义（P＜0.05），治疗组优于对照组。结论：早期佩戴AFO能够促进偏瘫患者步行能力、平衡功能、运动功能、日常生活活动能力、踝关节控制肌群肌力的恢复。

关键词：脑卒中 踝足矫形器 偏瘫步态 步行功能 表面肌电图

A sEMG study on walking ability in hemiplegic stroke patients with application of ankle-foot orthosis in early stage

Download Fulltext

The First Affiliated Hospital, Shenzhen University, Shenzhen, 518000

Fund Project:

Abstract:

Abstract Objective: To observe the clinical curative effect of early application of ankle-foot orthosis(AFO) combined with routine training in stroke patients with hemiplegic gait. Method: Sixty-three stroke patients with hemiplegia were divided into treatment group (Z group) and control group (D group). They were all treated with routine therapy, the patients in group Z were treated in addition with custom-made AFO. All the patients received gait analyzer and sEMG assessment. Some assessment systems were used to evaluate the walking ability, the iEMG of ankle muscles, motor function, balance function, and ability of activities of daily living before and after the treatments. Result: There were significant differences in walking ability before and after treatments (P＜0.01). In treatment group, there were significant advantages in walking ability, lower limb motor function, balance function, ability of activities of daily living, strength of ankle muscles compared with control group (P＜0.05). Conclusion: The walking ability, balance function, motor function, ability of activities of daily living, and the rehabilitation of the ankle muscles in hemiplegic patients were promoted by early application of AFO.

Keywords:stroke ankle foot orthosis hemiplegic gait walking ability surface electromyogram

查看全文 查看/发表评论 下载PDF阅读器