ORIGINAL ARTICLE

Clinical Observation on Treatment of Clearing the Governor Vessel and Refreshing the Mind Needling in Neural Development and Remediation of Children with Cerebral Palsy*

LIU Zhen-huan (利茨宴)', QI Yan-chao (祁岩起)', PAN Pei-guang (清秌先)', MA Mei-mei (冯关美)', QIAN Xu-guang (钱起充)', and FU Wen-jie (祥文杰)'

ABSTRACT Objective: To investigate the effects of clearing the Governor Vessel and refreshing the mind needing in neural development and remediation of children with cerebral palsy. Methods: A total of 200 cases of children with cerebral palsy were randomly assigned to the treatment group (100 patients) and the control group (100 patients). The treatment group was given the combined therapy of acupuncture and rehabilitation training, and the chosen acupoints were 13 points of the Governor Vessel, Shenshu (BL 23), Tabd (KI 3), Yanglingquan (GB 34), Zusanli (ST 36) and Sanyinjiao (SP 6), and points of refreshing the mind were also selected, which included puncturing Shenting (GV 24) toward Qianding (GV 21), puncturing Qianding (GV 21) toward Baihui (GV 20), puncturing Baihui (GV 20) toward Naohu (GV 17) and Sishencong (Ex-HN 1). The control group was only treated with rehabilitation training. A contrastive analysis of the therapeutic effect of acupuncture combined with rehabilitation training and rehabilitation training alone was made after a treatment course of 3 months. The Gross Motor Function Measure (GMFM) and Beijing Gesell Developmental Scale were adopted to assess the neural development and rehabilitation outcomes of the two groups. In addition, skull CT/MRI was adopted to evaluate the plerosis of injured cerebral nerve after treatment. Results: The total effective rate in treatment group was 87% (87/100), significantly higher than the 55% (55/100) in the control group. The children's development quotient (DQ) tested by Gesell Developmental Scale and scores tested by GMFM in the treatment group were obviously higher than those in the control group (P<0.01). The improving and curing rates presented by skull CT/MRI in the treatment group were higher than those in the control group (P<0.01). Conclusions: Clearing the Governor Vessel and refreshing the mind needling could accelerate the recovery of injured brain nerve and the reconstruction of brain function. The acupuncture therapy could ameliorate both the motor development and cognitive development. On the other hand, the forward curative effect of acupuncture combined with rehabilitation training was significantly better than the rehabilitation training alone.

KEYWORDS acupuncture therapy, cerebral palsy, nervous development, neurorestoratolog

The medical rehabilitation of cerebral palsy (CP) was thought to be a global medical problem. In America for more than 60 years, many rehabilitation training methods were applied in CP rehabilitation, but most of the children could not be cured after long-term rehabilitation training. Children with severe cerebral palsy often require a lifelong rehabilitation. In order to explore the efficacy of clearing the Governor Vessel and refreshing the mind needling to the rehabilitation of CP, from January 2008 to December 2009, we carried out a randomized study to compare the effect of acupuncture combined with rehabilitation training and rehabilitation training alone.

METHODS

Cases Selection

(1) Diagnosis and classification standards

were according to the 2006 National Conference of Cerebral Palsy; (2) age of 1 to 7 years old; (3) excluding progressive diseases or degenerative diseases, such as inherited metabolic disorders, and excluding neurosurgical diseases, such as brain tumors and hydrocephalus; (4) without loss of sight or nerve deafness; and (5) obtained informed consent of

OThe Chinese Journal of Integrated Traditional and Western Medicine Press and Springer-Verlag Berlin Heidelberg 2013
"Supported by the National Natural Science Foundation of China (No. 3074007)

Cerebral Palsy Rehabilitation Center of Nanhai Maternity and Children Hospital Affiliated to Guangzhou University of Chinese Medicine, Foshan, Guangdong Province (528200), China; 2. Guangzhou Cancer Hospital, Guangzhou (528200), China Correspondence to: Prof. LIU Zhen-huan, Tel: 86-757-86232936, E-mail: Lzh1958424 @ 163.com DOI: 10.1007/s11655-013-1504-9