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Study on the Repair and Remodeling of Cerebral Nerve in Children with Cerebral Palsy by Acupuncture

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Abstract:

Introduction Objective:

To investigate the effect of and Acupuncture on brain plasticity and motor development in children with cerebral palsy. Investigate effect on mechanism of apoptosis of brain nerve cells, regulating the expression of neurotrophic factors, promoting the remodeling of nerve synaptic structure and motor development in young rats with cerebral palsy. Two: To evaluate the effect and mechanism of acupuncture on cerebral palsy. Three: The nerve repair effect of acupuncture on cerebral palsy.

Methods: In this study, 146 cases of brain injury and 1078 cases of cerebral palsy were included by randomized controlled study with ICF Gross motor function measure ;GMFM, Peabody fine motor function, Gesell, muscle tension, joint activity, Activity of daily living ;ADL, transcranial Doppler, TCD, skull B ultrasound, Brain Nuclear Magnetic Resonance Imaging MRI, Positron Emission Tomography SPECT, Diffusion tensor tractography DTI evaluation method.

Results: One: the recovery rate of extracellular space (92.3%) was significantly higher than that of the control group (70.8%) ($P < 0.05$), Transcranial Doppler, TCD total efficiency (79.3%) was significantly higher than that in the control group (51.8%) ($P < 0.05$). Acupuncture to promoting the development of neurological and cognitive movement under 6 months children, effectively reduce the neurological sequelae.

Two:

The total effective rate of the children with cerebral palsy was 87% in the acupuncture group, which was significantly higher than that of the control group ($P < 0.01$). The total effective rate of Brain MRI was 59.55% in the acupuncture group and 13.25% higher than that in the control group ($P < 0.01$). The total effective rate was 91.3% in the 1 year follow-up group, which was significantly higher than that in the control group ($P < 0.01$). the FA value of white matter fiber bundle was significantly higher than that of acupuncture at 60 times ($P < 0.05$). The recovery rate of ultrasonous brain injury (86.7%) in acupuncture group was significantly higher than that in control group (64.4%) ($P < 0.05$). The recovery rate of brain SPECT in acupuncture group was 96.4%, which was significantly higher than that in the control group ($P < 0.01$).

Conclusion:

Acupuncture rehabilitation not only promote the development of white matter and gray matter in children with cerebral palsy, but also promote the brain function of children with cerebral palsy remodeling and compensation, and promote social adaptation, language and other cognitive function development, children with cerebral palsy movement and Fine motor function development and recovery, improve the children's self-care ability.

Key Words:

Cerebral palsy; Acupuncture; Nerve repair; Nerve recombination; Movement and Fine motor function; Cognitive function development

The research is novel, the design is reasonable, the data is complete, the statistics are correct and the conclusion is credible. Has published 28 papers, including SCI included 3, published monograph 2, invention patents 3, the technology has been incorporated into the Chinese cerebral palsy rehabilitation guidelines (2015). Has a high clinical value and promote the use of value. The evaluation of acupuncture and moxibustion therapy and prevention of cerebral palsy children was not evaluated by ICF comprehensive evaluation

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Project leader after more than 30 years of clinical exploration and research, improve the cerebral palsy acupuncture massage rehabilitation technology, nearly 7 years in the Guangzhou University of Chinese Medicine Affiliated Nanhai Obstetrics and Gynecology Children's Hospital treatment of children with cerebral palsy 2236 cases achieved good results, and extended to Germany, the United States, Australia, the United Arab Emirates, Russia, Indonesia, Sri Lanka, Malaysia, Hong Kong of China, Macao, Taiwan of China and more than 30 provinces and cities nationwide, a total of 9408 cases of cerebral palsy treatment, the average effective rate of 85.25%, access to significant social benefits. The acupuncture rehabilitation technology to lead and promote the international pediatric cerebral palsy rehabilitation medicine development, reached the international leading level.

Biography:

Zhenhuan LIU, professor of pediatrics, chief physician, doctoral supervisor, chief expert of Nanhai Maternity and Children's Hospital Affiliated to Guangzhou University of Chinese Medicine. Enjoy The State Council special allowance famous children rehabilitation medical experts. The first batch of leading medical talents in Guangdong Province. He was appointed as Visiting Professor of the Faculty of Medicine of the Chinese University of Hong Kong and honorary director of the California Autism Treatment Center. Evaluation expert of National Science and Technology Progress Award, Vice Chairman of Child Health Care and Health Education Professional Committee of World Federation of Chinese Medicine, vice president of Children Cerebral Palsy Rehabilitation Branch of World Federation of Chinese Medicine. Vice Chairman of Children's Encephalopathy Professional Committee of Chinese Acupuncture Society. Deputy leader of Neurology Group, Pediatrics Committee of Chinese Association of Integrated Traditional and Western Medicine. "Chinese Acupuncture", "Chinese Child Health Care", editorial board member

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