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The Clinical and Experimental Study on Acupuncture for Children with Cerebral Palsy

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In this study, 146 cases of brain injury and 1078 cases of cerebral palsy were included by randomized controlled study with ICF (GMFM, Peabody fine motor function, Gesell, muscle tension, joint activity, ADL, TCD, skull B ultrasound, head CT/MRI, SPECT, DTI) evaluation method. The results showed that (1)The recovery rate of extracellular space (92.3%) was significantly higher than that of the control group (70.8%) ($P < 0.05$), 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. (2)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 CT/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 SPECT in acupuncture group was 96.4%, which was significantly higher than that in the control group ($P < 0.01$). (3)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, 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.

Biography:

Professor Zhenhuan Liu is the deputy manager of the Affiliated Maternity and Child Care Hospital of Guangzhou University of Traditional Chinese Medicine, the director of the rehabilitation centre for cerebral palsy of the hospital and the master tutor of the Guangzhou University of Traditional Chinese Medicine. Prof. Zhenhuan Liu became one of the pediatricians who received the special state Council allowance in China in 1994, was given the title of the prominent contribute youth expert by the Healthy Ministry of China in 2002. In 2005, Prof. Zhenhuan Liu got the honor of "model worker in nationwide". In addition, Prof. Zhenhuan Liu is also the adjunct professor of the Hong Kong Medical College of Traditional Chinese Medicine and Pharmacy and the Health Institute of Indonesian Ministry of Health.