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Clinical and Experimental Study Acupuncture for Children with Cerebral Palsy

Objective:

To investigate the clinical rehabilitation effect of JianPiYiShen and TongDuXingNao acupuncture on children with cerebral palsy, as well as the mechanism of this therapy to induce the cerebral neuronal apoptosis, to regulate the expression of neurotrophic factors, to promote the remodeling of synapses and motor function development in young rats with 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 (GMFM, Peabody fine motor function, Gesell, muscle tension, joint activity, ADL, TCD, skull B ultrasound, head CT/MRI, SPECT, DTI) evaluation method.

Results:

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%) ($P < 0.05$). JianPiYiShen and TongDuXingNao acupuncture to promote 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 (20.7%) ($P < 0.01$).

Conclusions:

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.

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