



Summary of Clinical Syndrome in Treating Spastic Cerebral Palsy from Liver, Spleen and Kidney

Chenchen Zhang¹, Hui Wang²

¹ Shaanxi University of Traditional Chinese Medicine, Xianyang 712046, Shaanxi, China

² Xi'an Hospital of Chinese Medicine Encephalopathy, Xi'an 710032, Shaanxi, China

DOI: 10.32629/jcmr.v3i4.995

Abstract: Spastic cerebral palsy is mainly caused by dyskinesia and postural abnormality caused by damage of pyramidal tract system. Clinically, the main manifestations are hypertonia, limb joint movement disorder, postural and gait abnormality. At present, Western medicine has not yet developed effective drugs to treat spastic cerebral palsy. In view of the problem that the incidence of spastic cerebral palsy in children is increasing year by year, this paper puts forward the treatment methods of spastic cerebral palsy in children based on the theory of "liver, spleen and kidney". The main treatment methods are to strengthen spleen, replenish qi, soften liver and calm wind or nourish liver and kidney, dredge tendons and dredge collaterals. The clinical effect of tonifying deficiency and eliminating pathogenic factors is exact. Attached case 1 is to support it.

Keywords: spastic cerebral palsy, liver, spleen and kidney

1. Introduction

Cerebral palsy is a group of persistent central motor and postural dysplasia and activity limitation syndromes that result from non-progressive damage to the developing fetal or infant brain. Movement disorders in cerebral palsy are often accompanied by sensory, perceptual, cognitive, communication, and behavioral impairments, as well as epilepsy, and secondary musculoskeletal problems[1]. Spastic cerebral palsy is more common clinically, and spastic cerebral palsy can be classified into the categories of "five delays, five softness, and five hardships" in traditional Chinese medicine. Most contemporary physicians discuss the theoretical relationship between "homology of liver and kidney" and "storing and transporting blood" of liver and spleen, and think that spastic cerebral palsy is related to qi stagnation, blood stasis and phlegm coagulation caused by deficiency of essence and blood of liver and kidney. Therefore, this study combines the understanding of this disease in traditional Chinese medicine to adopt the treatment means of softening liver, invigorating spleen, tonifying kidney and filling marrow to observe good effect.

2. Theoretical basis of liver, spleen and kidney

The liver controls the tendons, and the tendons and veins of the human body are nourished and nourished by the liver blood. The spleen and stomach are the foundation of the day after tomorrow. When the fetus is born, the viscera is not mature enough to transform qi and blood to resist external pathogens, so the disease is the root cause. The kidney is the foundation of the innate, the parents are congenitally weak, and the kidney essence cannot transform qi and generate blood, so it is difficult to nourish the innate kidney essence of the fetus. Symptoms such as developmental delay. The above clearly pointed out the inseparable relationship between the three pathogenesis, and gave clinical guiding significance for the treatment of liver, spleen and kidney[2].

3. Discussion on the basis of theory

As Li Hua[3] said when discussing the relationship between the liver and spleen: the liver and spleen are in harmony with each other, nourishing blood and nourishing each other for mutual use, mutual support of vitality, mutual prosperity of the liver and spleen, and easy transmission of diseases and involvement of each other. And cause liver and spleen phase and disease syndrome. Based on the above theory, the author believes that the disease is particularly closely related to the liver and kidney. Spastic cerebral palsy is often protracted and repeated, so the syndrome of deficiency and excess is more common. When the liver and kidney yin is deficient and the tendons and veins are deficient, it can be seen that the limbs are rigid and rigid. Combined with the physiological characteristics of the patients, the treatment of spastic cerebral palsy mainly focuses on assisting the righteous qi, using nourishing the liver and kidney, strengthening the spleen and stomach, so that the qi and blood are sufficient, and eliminating pathogenic factors is mainly to activate the blood, dispel the wind and clear the

collaterals. A manifestation of Chinese medicine theory.

4. Strengthens the spleen, relieves spasm, calms the liver and calms the wind

According to research[4], spastic cerebral palsy is due to the strong liver qi, weak spleen, weak liver qi and weaker spleen function, resulting in lack of biochemical sources of qi and blood, or because spleen deficiency cannot suppress liver wood, resulting in relative hyperactivity of liver qi, tendons and veins. Muscles lose their blood supply, resulting in muscle and bone spasms. The kidney is the foundation of the innate, mainly bone and marrow, and is the root of growth and development. Yigong San Jiawei is a classic prescription for the treatment of liver-strengthening and spleen-weakness. Modern pharmacology shows that Yigong San mainly has the functions of enhancing immunity, resisting ulcers, and relieving spasm. Among them, daidzein in pueraria has anti-acetylcholine effect and can significantly contract smooth muscle. Secondly, Professor Song Hujie's fumigation and washing protocol can make the liver and spleen to regulate both, so that the liver governs tendons and the spleen governs the functions of the muscles of the limbs.[5] Therefore, the treatment should be based on the principles of invigorating the kidney, nourishing the liver and promoting blood circulation, and refreshing the brain.

5. Case study example

First visit: May 21, 2021

Family statement: The patient was a 5-year-old male, born prematurely, with a birth weight of 1 400 grams. He was discharged from the hospital after one month of observation. The 5-month-old child could not stand upright, could not sit up at the age of 1, began to speak at the age of 2, and was able to stand with the help of the parents at the age of 2 and a half, but the knee joint could not be straightened, and the legs crossed in a scissors shape, and the response was acceptable. Physical examination: the child had increased muscle tone in both lower extremities, a fat tongue, white greasy coating, thin pulse, and stagnant fingerprints. A diagnosis of cerebral palsy (spastic diplegia) was made. The dialectical is the syndrome of strong liver and weak spleen. Governance to soften liver and spleen, relax tendons and dredging collaterals. To be different power powder flavor. Prescription: Ginseng 6g, Atractylodes 6g, Poria 6g, Licorice 6g, Chenpi 9g, Paeonia lactiflora 6g, Uncaria 6g, Gastrodia elata 6g, Chixueteng 9g, Whole scorpion 6g, Pueraria 9g. 15 doses, 1 dose every other day. Decoct 400ml in water, 2 times a day, 200ml each time, take it in the morning and evening. At the same time, they were treated with traditional Chinese medicine fumigation and washing. The bathing prescription: 50 g of Astragalus root, 30 g of white peony root, 20 g of Chuanxiong, 30 g of Poria, 30 g of Scutellaria chinensis, 40 g of Shenshencao, 30 g of Cymbidium vulgaris, 20 g of Achyranthes, Roasted licorice 10 g. Decoct the medicine for 30 minutes, take 1000ml of medicinal liquid, add an appropriate amount of water, and put it into a medicinal bath. The operation method is as follows: the temperature range of the medicinal bath is between 38-40°C, and the bathing time is 10-15 minutes. Once a day, one month is a course of treatment.

Second consultation: June 20, 2021

Family statement: The patient's symptoms were relieved after taking the medicine, but sometimes he had trouble sleeping at night, poor appetite, loose stools, etc. Physical examination: muscle tension was significantly reduced, joint range of motion was significantly increased, and muscle strength was improved. On the top, go to Tianma, Uncaria, Pueraria, add Gorgon 6g, Suanzaoren 6g. 15 doses, the same as before. Traditional Chinese medicine fumigation treatment is the same as before. After 1 month, the symptoms improved in the outpatient reexamination. Instruct the children to actively recover and exercise, and follow up if they are not feeling well.

Note: The child is a young male, premature birth, low body weight, due to congenital deficiency, malnutrition of the sea of marrow, inability to nourish the body due to convulsions of muscles and veins, rigid limbs and apraxia, which are typical signs of a strong liver and a weak spleen. Ginseng, Atractylodes, tonifying qi and strengthening spleen, drying dampness and diuretic water, Poria cocos diuresis of dampness, tangerine peel activating qi, Zhigancao tonifying the middle and invigorating qi, combining Uncaria and Gastrodia elata to calm the liver and submerge the yang, relieve wind and stop spasm, scorpion Relaxing tendons and activating collaterals, kudzu root relieves spasm. Liver and spleen are taken into account, qi and blood are in harmony, qi does not forget to replenish blood, and evil spirits do not forget to strengthen the righteousness, adding and subtracting according to the syndrome. After 1 month, the muscle tension and muscle strength were re-examined, and satisfactory clinical results were obtained.

6. Conclusion

The treatment of spastic cerebral palsy based on "liver, spleen and kidney" can effectively improve the gross motor function and enhance the independence of children, which is worthy of clinical application.

References

- [1] Tang Jiulai, Qin Jiong, Zou Liping, Li Xiaojie, Ma Bingxiang. Guidelines for Rehabilitation of Cerebral Palsy in China (2015): Part I[J]. *Chinese Journal of Rehabilitation Medicine*, 2015, 30(07): 747-754.
- [2] Liu Yuxia, Zhou Yu. Research progress of acupuncture and moxibustion in the treatment of children with cerebral palsy[J]. *Xinjiang Chinese Medicine*, 2022, 40(02): 104-106.
- [3] Li Hua, Cai Guangxian, Liu Boyan. Theory of "Relation between Liver and Spleen" in Traditional Chinese Medicine [J]. *Tianjin Traditional Chinese Medicine*, 2010, 27(03): 210-212.
- [4] Wang Xuefeng, Hu Xiaoli. Analysis of traditional Chinese medicine on spastic cerebral palsy (syndrome of strong liver and spleen) in children [J]. *Journal of Pediatrics of Traditional Chinese Medicine*, 2005(02): 8-9.
- [5] Gao Qingming, Yan Bingcang, Zhao Ningxia, Song Hujie. Chinese medicine fumigation improves the fine motor function of 46 children with spastic cerebral palsy syndrome of strong liver and spleen [J]. *Shaanxi Traditional Chinese Medicine*, 2011,32(05): 555-556.