plored, which will lay a foundation for traditional Chinese medicine for the treatment of hyperthyroidism.

Methods: By taking Yersinia enterocolitica (YE) of 5×108 /ml at the 0th, 5th, 10th, 15th, 20th day respectively, hyperthyroidism model rats were copied by injecting 0.1, 0.2, 0.3, 0.4, 0.5 ml into rats' caudal vein ,and control group were given equal volume saline. At the 2th days after injection, the model groups were randomly divided into model group, high, medium and low dose group of Qixuanyijianing and positive medicine group respectively, according to 17.4 g/kg (crude drug) rats, 7.2 g/kg (crude drug) rat, 3.6 g/kg (crude drug)rat .They were given heavy irrigation once a day for 28 days , the control group and model group was given the same volume distilled water. During the process of experiment, the appearance of rats were observed and the weight of rats were taken every 10 days; serum and thyroid tissue of Qixuanyijianing-treated group were indicated; the levels of T3, T4 were determined by radioimmunoassay; the levels of IL - 17, IL - 6 and TGF –β were measured by ELISA ; Immunohistochemistry method and the Real-time PCR were used to measure the level of IL - 17 and IL – 17R protein expression of thyroid tissues.

Results : Compared with the control group, model group rats gain weight lower significantly, the levels of T3, T4 increase significantly; TSH lower decrease, thyroid tissue pathologic change. Compared with the model group with significant difference , Qixuanyijianing-treated group can make serum T3 and T4 levels of hyperthyroidism rat lower; the level of TSH decrease, thyroid tissue pathological have been improved, ($P < 0.05$). Qixuanyijianing-treated group can reduce the serum level of IL - 17, IL - 6, TGF – β of the hyperthyroidism rats and IL - 17 in thyroid tissue, IL - 17 R and IL - 17 mRNA, the protein expression level of IL-17RmRNA decrease significantly which show the regulatory effect of Qixuanyijianing to Th17 cells .

Conclusions: 1. According to the weight, the levels of serum T3, T4 and TSH and thyroid tissue pathology, the hyperthyroidism model was determined successfully.

ixuanyijianing could significantly improve body weight of hyperthyroidism rat, reduce the levels of serum T3, T4, increase the levels of TSH, and improve the thyroid tissue pathological, which shows that Qixuanyijianing has a good therapeutic effect to hyperthyroidism. Qixuanyijianing can significantly reduce serum IL - 17, IL - 6, TGF-β the level of hyperthyroidism rat, and can significantly lower levels of IL - 17, IL - 17 r and IL - 17 mRNA, IL17RmRNA protein expression of thyroid tissues, which shows that the Qixuanyijianing related factors and has influence on the regulation of Th17 cells.

Key Words: Qixuanyijianing; hyperthyroidism; Th17 cells; Interleukin-17

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RESEARCH ON THE PROTECTIVE EFFECT OF BAICHANTING COMPOUND ON PARKINSON DISEASE MODEL

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Abstract:Objective and significance:Baichanting compound(BCT) was refined from FuyuanPingchanningthat was an empirical treatment for Parkinson's disease (PD),which was a combination of effective parts of Acanthopanax extracts,Radix Paeoniae Alba extracts,Uncaria extracts.Previous studies showed that Fuyuanpingchanninghad a very good effect on PD. BCT has the functions of nourishing liver and kidney, stabilizing liver Yang, supplementing qi and nourishing blood, expelling wind and stopping convulsion.In this study, we observed the influence of BCT on oxidative stress, neuroinflammation and cell apoptosis of PD cell and mouse models to reveal its neuroprotective effect and mechanism.Methods:1.The uniform design method was used to explore the best compatibility proportion of BCT. 2. (1)BCT's protections to SH-SY5Y cell model of PD induced by MPP+SH-SY5Y cells were addressed in different concentration of MPP+ and different action time.The cell survival rate wasset by the MTT method. By comparing their cell survival rate,we can determine the suitable concentration and action time of MPP+ and explore the BCT protective effect on SH-SY5Y cells induced by MPP+.(2)The PD mice model was induced by MPTP.The mouse were randomly divided into normal group, model group, Madopar group,and the BCT high dose, middle dose and low dose groups. Neurobiology was detected by the pole and independent activities experiments. DA content in mice striatum was detected by UPLC-MS/MS method. The acetylcholine (Ach) content of mice striatum was detected by biochemical method.The positive cells' expressions of tyrosine hydroxylase (TH) and dopamine transporter (DAT) in midbrain substantianigra wereobserved by immunohistochemical method. 3.Research of BCT's neuroprotection mechanism on PD mice model:(1) The level of SOD, MDA and GSH-Px in mice midbrain substantianigra was detected by biochemical method.The nucleoprotein expression of Nrf2 and HO-1 was detected by Western blot. The mRNA expression of Nrf2 and HO-1 was detected by Real-time PCR.(2)Expressionof glial fibers acidic protein (GFAP) and nitric oxide synthase (iNOS) of positive cells in mice midbrain substantianigra was detected by immunohistochemical method. The level of IL - 6, IL - 1β,TNF-α, IFN – γ and NO in mice midbrain substantianigrawere detected by ELISA method. (3)The positive apoptosis cells expression in mice midbrain substantianigra was detected by the TUNEL method. The apoptosis related proteins Bax, Bcl - 2, Caspase 3, and Cyt-c expression were detected by Western blot. The apoptosis related gene Bax, Bcl-2, Caspase-3 and Cyt c mRNA expressions were detected by Real-time PCR method.Results:1.The best compatibility proportionis: X1 (acanthopanax extract) = 54.00, X2 (extracts from radix paeoniae alba) = 44.88, the X3 (uncaria extract) = 82.50.2.MPP+ can significantly reduce the survival rate of SH-SY5Y cells.With the concentration and the action time of MPP+ increasing, the damage on SH-SY5Y cells wasmade worse. The suitable concentration was 0.437 μmol/L and the action time was 48h. BCT could protect cell damage through improving the survival rate of SH-SY5Y cells significantly. MPTP can significantly extend the climbing pole time, reduce frequency of autonomic activities, decrease DA content of striatum, positive cells expression of TH and DAT, increase Ach content of striatum. But related indexes expressions

in BCT and Madopar group were recovered in a certain degree. 3.In response to oxidative stress, the levels of SOD and GSH-Px wereincreasedsignificantly byBCT, whileMDA content of midbrain substantianigrareduced.BCT can improve protein expression and mRNA expression of Nrf2 and OH-1. BCT can dramatically reduce the inflammation factor, such as IL-6, IL-1β TNF-α,IFN-γ and NO level and the positive cells expression of GFAP and iNOS.BCT can significantly reduce the cell apoptosis levels of substantianigra neurons, decrease protein and mRNA expression of Bax/Bcl-2,increase protein and mRNA expression of Caspase-3 and Cytc.Conclusions:BCT may have a protective effect on the PD cells or mouse neurons from multiple pathways and multiple targets.The neuroprotection of BCT on PDwas related to improving the oxidative stress response by regulating Nrf2/HO-1 pathway, neuroinflammation and cellapoptosis.

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THE EVOLUTION OF THE SHALLOW XI YIN METHOD DISPELLING DAMP AND HOT, FORMATION MARK HEAP

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Abstract: ziyin method dispelling damp and hot, is in a deep analysis of \"YinShang\" and \"hot\" inner dialectical relationship between, on the basis of the method to nourish Yin and remove hot and humid, both for \"YinShang\" and \"hot\" mutual relationship between disease and nourish Yin and remove synchronization of damp and hot and different amount of treatment, has been widely used in the clinical diagnosis and treatment, therefore, this article from the perspective of theory, method, square, medicine ziyin remove the evolution of the hot and humid method, given the clear in this paper, the formation, in order to plays an important value in clinical guidelines.

Keywords: ziyin remove hot and humid, the opposite each other, evolution and ormation

Ziyin method dispelling damp and hot, is a kind of treatment becomes one of the two kinds of treatment, in the deep analysis of "YinShang" and "hot" inner dialectical relationship between, on the basis of the method to nourish Yin and remove hot and humid, both for "YinShang" and "hot" mutual relationship between disease and nourish Yin and remove synchronization of damp and hot and different amount of treatment. This kind of treatment, in the ancient classic medical books also has related, the interview from the perspective of principle, method, square, medicine to nourish Yin the evolution of the remove damp heat method, formation given briefly.

The therapy is follow the huangdi neijing, proposed \"the loss of benefits\", \"virtual filling of the theory and development of\" evolved.\"Ask, to really wants big theory\" in also said: \"too the nether world day, wet Yin, the gloomy and cloth, the rain become withered...Yin qi, hunger is not food, cough salivary has blood, disease in kidney.\"[1] reveals the spleen and kidney and wet sheng and pathogenesis outcome of the mutual relationship between Yin deficiency, but also to a great extent, indicates the \"Yin\", \"\" dispelling damp and hot, tianjin with the rationality of the shi.

Zhang zhongjing from the perspective of the law from the perspective of the law, the law of the opposite, which plays a key role in the formation of nourishing and dampness and heat. Opposite each other method is to choose sexual flavour efficacy, function characteristics instead of medicine cooperate to use, make mutual restriction, an excitation, in order to achieve synergies, complement each other, bring out the best in each other the treatment effect of the treatment of [2], the action of pathogenesis or pathological treatment instead of unity in the treatment of a patient.

On the basis of dehumidishing and nourishing Yin, ye tianshi has the following understanding of the diagnosis and treatment of wet and humid heat. Disease is rooted in YinShang, damp and hot symptoms and card, the core of treatment is to nourish Yin, supplemented by dispelling damp and hot drugs at the same time, on the basis of YinShang merger of damp heat treatment, the core of our treatment is to nourish Yin, supplemented by dispelling damp and hot drugs at the same time, which is in accordance with the "Canon" : "cure will beg in this" the fundamental principle of clinical treatment.

For pathological state of coexistence of YinShang, hot and humid JuTong wu also inherited Ye Tianshi ideas about hot and humid to YinShang, caused by the hot and humid to YinShang YinShang of pathology, wu JuTong discusses the hot and humid in the stomach YinShang, spleen YinShang symptoms, which can be seen, oh for YinShang, on the basis of the cause of damp and hot is focusing on the hot and humid, and consumed and human body, the hot and humid to YinShang and make YinShang pathology of damp and hot.