

group was decreased, but it was increased in EA and E2 group. The BDNF protein in hippocampal CA1 area of rats in model group was decreased in both immunohistochemical staining and western blot assay, which showed increased BDNF expression in EA group. Interestingly, TrkB expression was unchanged in EA group in immunohistochemical staining, but it was found increased expression in western blot assay, while it showed decreased expression in model group.

Conclusions: Ovarian removal inhibited the expression of ER $\alpha$ , BDNF and TrkB protein in hippocampus CA1 region and decreased the learning and memory ability of rats. Acupuncture can improve the learning and memory ability of ovariectomized rats by up-regulating the BDNF/TrkB pathway expression in the hippocampal CA1 region, which is one of the mechanisms of acupuncture on improving the memory dysfunction in ovariectomized rats.

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## EFFECT OF SHIWEI-WENDAN DECOCTION ON 5-HYDROXY TRYPTOPHAN SYNDROME MICE MODEL INDUCED BY 5-HYDROXY TRYPTOPHAN

Chai Jianbo, Qu Miao, Guan Zihe

Heilongjiang university of Chinese medicine haerbin Addresses: No. 24 Heping road, Harbin, heilongjiang province  
Email: cjb777@126.com

**Abstract Objective :** To observe the effect of Shiwei-Wendan decoction on 5 hydroxytryptophan syndrome mice model induced by 5 hydroxytryptophan, To discuss the role of related to 5-HT receptor of Shiwei-Wendan decoction. **Methods :** Pargyline hydrochloride subcutaneous injection combined 5-hydroxytryptophan abdominal cavity injection method to establish 5-HT syndrome model in mice, to observe the shaking the head times after Shiwei-Wendan decoction interfere, and comparing with haloperidol. **Result and Conclusion :** Shiwei-Wendan decoction can obviously reduce the times of Schizophrenia 5-HT syndrome model mice's shaking head reduced by 5-HTP and improve the 5-HT symptoms of schizophrenia.

**Key words :** Shiwei-Wendan decoction ; Schizophrenia ; 5-HTP ; 5-HT syndrome

This study aims to through the establishment of schizophrenia 5-HT syndrome model caused by 5-HTP, study the effect of Shiwei-Wendan decoction on related behavior of schizophrenia model and provide the basis and the reference for related studies.

### 1 Experiment Materials

#### 1.1 Drug and preparation

1.1.1 Building medicine Pargyline hydrochloride provided by SIGMA, batch number : 20140511 ; 5-hydroxytryptophan (5-HTP) provided by Merck, batch number : 20140511.

1.1.2 Control drug Haloperidol provided by the Aladdin reagent factory, 2 mg/piece, batch number : 20141102. Haloperidol group clinical adult dose (2 mg/70kg), equivalent dose of 0.26 mg/(kg.d) converted into mice. Haloperidol tablets at the end of the research into distilled water mixture concentration is 0.013 mg/ml suspension, the bottle seal 4°C temperature refrigerator to the next time.

1.1.3 Subjects drugs Shiwei-Wendan decoction (pinellia 15g, acid-insoluble ash 10g, dried tangerine or orange peel 15g, tuckahoe 15g, liquorice 10g, semen ziziphi spinosae 15g, polygala 10g, ginseng 15g, rehmannia glutinosa 15g, fructus schisandrae 15g).

1.2 Experiment animal Kunming species mice, clean level, male, the weight of 25 to 30g, Heilongjiang university of Chinese medicine SCXK (black), batch number: 2013-004.

### 2 Experimental Method

2.1 Grouping and drug delivery 30 male KM mice were randomly divided into model group, Shiwei-Wendan decoction group and haloperidol group, each 10. In addition to the model group was given distilled water, the rest of the group are to fill the stomach subjects drugs of the same volume, 0.4ml/20g, 2 times/d, continuous dosing.

2.2 Building dosing and measure before the experiment, Groups of mice can eat food but not drink water about 12 hours, before and after lavage 3、10 d, Pargyline hydrochloride subcutaneous injection of 75 mg/kg, after 1 hour to lavage above every medicine (before drug delivery to determine but not to fill medicine, others the same), Again after an hour the intraperitoneal injection of 5-hydroxytryptophan about 20 mg/kg, groups of parallel operation, The mice's shaking the head behavior is observed after 25 min, To glance shaking the header record 5 minutes.

2.3 Data processing All the data using SPSS 17.0 statistical analysis software.

### 3 Results

Table 1 Shiwei-Wendan decoction on the effects of 5-HT syndrome about throwing the head times in mice

Group	Pre-dose	For 3 days	For 10 days
Model group	31.8571±2.6726	30.5714±1.1339	29.5714±1.5119
Haloperidol group	32.2857±2.9277	20.8571±3.3381 <sup>## **</sup>	13.4286±2.8200 <sup>##ΔΔ**</sup>
Shiwei-Wendandecoctio	32.7143±1.7995	25.4286±2.2254 <sup>## **</sup>	20.7143±3.3523 <sup>##Δ**</sup> ▲▲

Note : within the group comparison:compared with before the dosing, ## p<0.01 ; Compared with dosing day 3, ΔΔ p<0.01 Δ p< 0.05.Comparison between groups : compared with model group,\* \* P < 0.01 ; Compared with haloperidol group,▲P<0.05,▲▲P<0.01.

Show that Shiwei-Wendan decoction can obviously reduce the schizophrenia 5 - HT syndrome model mice of shaking head times caused by 5-HTP and improve the 5 - HT sample symptoms of schizophrenia.

4 Discussion This study applies the model to explore the role of Shiwei-Wendan decoction related to 5-HT receptor. Shiwei-Wendan decoction has the phlegm and go qi、tonify、nerves on volunteers,it used to treat on phlegm and qi stagnation,deficiency of qi of heart and gallbladder,liver and spleen discord,to cause through agitated、insomnia、paranoid、easily frightened the madness of disease.The results show that Shiwei-Wendan decoction can obviously reduce the schizophrenia 5-HT syndrome model mice shaking head times caused by5-HTP.Improve the 5-HT sample symptoms of schizophrenia.Its for 5-HT receptor antagonism have a certain extent effect,it provide a basis for Shiwei-Wendan decoction' clinical treatment of schizophrenia,It's worth to further research.

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## THE CLINICAL RESEARCH OF ACUPUNCTURE ON IMPROVING COGNITIVE FUNCTION OF PATIENTS WITH VASCULAR DEMENTIA

Chen Jing Wang Linjing Hou Xinlei An Wei

the Acupuncture Five Ward of the Second Affiliated Hospital of Heilongjiang University of Chinese Medicine

Email:chenjing108106@163.com Postal addresses: the Acupuncture Five Ward of the Second Affiliated Hospital of Heilongjiang University of Chinese Medicine

Abstract Objective: Studying the improvement of acupuncture on cognitive function of patients with vascular dementia (VD), to provide reliable evidence of clinical acupuncture.

Method: 60 patients with VD were randomly divided into the acupuncture group, 30 cases and the drug control group, 30 cases. The acupuncture group:The main point: Baihui, Shenting, Meichong, Fengchi, Shuaigu, Taixi, Xuanzhong, Shenmen. The acupuncture methods: With general skin disinfection, take 30 1.0-1.5 inch needle, the needle body pierces into Baihui with 15 degrees between the skin (to the left and right sides of Si Shencong), Shenting (back through the thorns on the star points), to the subgaleal, then twist pin (frequency about 200 times / min) 2min, needle retention 40min. The direction of the Fengchi point to the tip of the nose piercing, other points also taking all 30-inch 1.0-2.0mm needle piercing into, ping-ping up the onset underwent reducing method, needle retention 40min. Twice a day on weekdays, except Sunday, 2 weeks is a course of treatment, a total of 4 courses. The drug control group:Oraling Duxil (Duxil Servier pharmaceutical production), Each 40mg, 2 times a day. Service 6 days a week, physical interest one day, 2 weeks to a course of treatment, a total of 4 courses. Take assessment of HDS-R scores before and after treatment. Evaluation standard: Markedly: HDS-R score increased 10 points or more; effective: HDS-R score increased by 1 to 9 pm; invalid: HDS-R score unchanged or decreased.

Results: the acupuncture group can improve the VD patients, HDS-R score, the total effective rate 86.67%, compare with the drug control group ,there were significant differences between the two groups (P<0.05)

Conclusion: Acupuncture can improve the VD patients, cognitive function and the quality of life.  
Key words: Acupuncture; Vascular Dementia; Cognitive Function; Clinical Research

### References

- [1] Wang Weizhi rule of Neurology, [M] Beijing: People's Medical Publishing House, 2002.253
- [2] Chen Qingtang Stroke rate in patients with neurological impairment standard [J]. Journal of Neurology .1996, 29 (6): 381
- [3] Cheng Zhanpei The modified Hasegawa-style mini mental assessment scale [J]. Foreign Medical • Psychiatry volumes, 1993,20 (1) :40-42
- [4] Lin Hai. Huangxue Qi. Sun Sulun. Vascular dementia model rats of acetylcholine content and Jiannaoside effects of its intervention [J]. Journal of Traditional Chinese Medicine, 2008 36 (5): 24 - 25.
- [5] Huang Yong. Lai Xinsheng. Chen Jing, etc. before and after acupuncture Baihui patients with vascular dementia in different brain regions of the cerebral glucose metabolism [J], Chinese Journal of Clinical Rehabilitation, 2005,9 (36) :68-70.
- [6] Zhang Ping, Ni Lanzhi Fengchi, Fengfu sequelae of stroke research [J] Chinese Acupuncture since.1998. 12: 743