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 immunohistoc- hemical 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 ERα, 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 SYNDROM MICE MODEL INDUCED BY 5- HYDROXY TRYPTOPHAN

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Abstract Objective: To observe the effect of Shiwei-Wendan decoction on 5 hydroxy tryptophan syndrome mice model induced by 5 hydroxy tryptophan, to discuss the role of related to 5-HT receptor of Shiwei-Wendan decoction. Methods: P- argyline hydrochloride subcutaneous injection combined 5- hydroxy tryptophan 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 - hydroxy tryptophan (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 10 g, dried tangerine or orange peel 15g, tuckahoe 15g, liquorice 10 g, semen ziziphi spinosae 15 g, polygala 10 g, ginseng 15g, rehmannia glutinosa 15g, - fructus schisandrae 15 g).

1.2 Experiment animal kunming species mice, clean level, male, the weight of 25 to 30 g, 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-hydroxy tryptophan 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

<table>
<thead>
<tr>
<th>Group</th>
<th>Pre-dose</th>
<th>For 3 days</th>
<th>For 10 days</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model group</td>
<td>31.8571±2.6726</td>
<td>30.5714±1.1339</td>
<td>29.5714±1.5119</td>
</tr>
<tr>
<td>Haloperidol group</td>
<td>32.2857±2.9277</td>
<td>20.8571±3.3381## **</td>
<td>13.4286±2.8200## ΔΔ**</td>
</tr>
<tr>
<td>Shiwei-Wendan decoction</td>
<td>32.7143±1.7995</td>
<td>25.4286±2.2254## **</td>
<td>20.7143±3.3523## ΔΔ**</td>
</tr>
</tbody>
</table>

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 by 5-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

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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, Shuagui, 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 more than 10 points; effectively: 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%, compared 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