## Clinical Report

# Treatment of "itching symptom" of allergic rhinitis from the perspective of "wind"

从"风"论刺过敏性鼻炎之"痒症"

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#### ABSTRACT

Objective To observe the clinical efficacy of "itching symptom" of allergic rhinitis treated from the perspective of "wind". Methods Forty patients were given acupuncture therapy, Fēngchi (风地 GB 20, bilaterally), Dāzhui (大 在 GV 14), Féngmén (风() BL 12, bilaterally), Féishű (財命 BL 13, bilaterally) and Shangyingxiāng (上迎音 EX-HN8, bilaterally) were selected. After needle withdrawal, a fire cup was applied between GV 14 and BL 13, and the cup was retained for 10 min. Treatment for 15 times was considered as 1 course of treatment. Three days were free from treatment between 2 courses, and 3 courses were needed. The curative effect was evaluated after treatment ends, and follow-up visit was performed one year after treatment. Results The scores of nasal symptom and itching symptom after treatment ends and one year after treatment significantly reduced when compared with that before treatment (all P<0.05), the difference was not statistically significant when compared the scores of nasal symptom and itching symptom one year after treatment with that after treatment ends (both P>0.05). According to the follow-up visit performed one year after treatment, the markedly effective and effective cases reduced, ineffective cases increased, and the total effective rate declined slightly. The serum IgE levels, after treatment ends [(164.79±44.29) IU/mL] and one year after treatment [(180.71±52.81) IU/ mL], both significantly reduced when compared with that before treatment [(380.12±61.45) IU/ml, both P<0.05], the serum IgE level one year after treatment increased when compared with that after treatment ends, but the difference was not statistically significant (P>0.05). Conclusion (1) Significant short-term and long-term curative effects have been obtained during the treatment of "Itching symptom" of allergic rhinitis from the perspective of "wind", (2) the mechanism of action may be related with the decrease of serum Igf. level, (3) it is indicated that there are correlations between allergic rhinitis and atopic diseases such as atopic dermatitis and allergic conjunctivitis, etc.

KEY WORDS: allergic rhinitis; itching symptom; wind-evil; serum IgE.

Allergic rhinitis (AR), a kind of allergic disease of nasal mucosa involving various immunocompetent cells and cytokines<sup>(1)</sup>, is mediated by IgE, with rhinocnesimis, sneezing, runny nose, eye itching, and throat itching, etc. as the major symptoms. Both AR and atopic dermatitis (AD) are allergic diseases, which are related with type I allergic reaction, with the same pathogenesis<sup>(3)</sup>. It has been found according to investigation [1] that AR is closely related with such diseases as AD, allergic conjunctivitis, and drug allergy, etc., AD is considered as the skin manifestation of "atopic diseases" [2]. Clinically, a part of AR patients visit the department of dermatology for treatment due to "stching symptom", thus neglecting the therapy for allergic rhimitis. The author has obtained satisfactory curative effect during the treatment of "itching symptom" of AR patients from the perspective of "wind", and the details are summarized as follows:

#### CLINICAL DATA

Forty patients, including 15 males and 25 females, were from the outpatient service who visited Hebi Jingli Hospital, Rehabilitation Department from March, 2014 to June, 2015, with the age of 22-61 years old, and the mean age of (39±12) years old The shortest course of disease was I year, and the longest was 10 years, with an average of (6.5 ± 1.4) years. All the cases conformed to the criteria in Diagnostic and Treatment Guidelines for Allergic Rhintia<sup>(4)</sup>. (1) with two or more symptoms of sneezing, watery nasal discharge, nasal congestion, and rhinocnesmus, etc., concomitantly with such ocular symptoms as eye itching, conjunctival congestion, etc., (2) pale nasal mucosa with edema and watery secreta, (3) positive result of skin prick test, (4) specific serum IgE detection result can be used as one of the laboratory indices of diagnosis of allergic rhinitis. Allergic rhinitis was diagnosed on the premise of consistency between the clinical manifestations and skin prick test result or specific serum IgE detection result. All the 40 patients were manifested as obvious "rhinoenesmus, eye itching, throat itching, skinstching" and other symptoms. The patients with nasalhumor or other masal murosa lesions, severe physical or mental diseases were excluded

## METHODS

Acupoint selection: Fengchi (风油 GB 20, bilsterally), Dazhuī (大梓 GV 14), Fēngmēn (风门 BL 12, bilsterally), Fēishū (時會 BL 13, bilsterally) and Shangyingxiāng (上迎香 EX-HN8, bilsterally)

Manipulations. The patient was asked in sitting position. After conventional disinfection, disposable 0.30 mm × 25 mm filiform needles were adopted at GB 20, BL 12, BL 13 and EX-HN8, and a disposable 0 30 mm×40 mm filiform needle was used for needling at GV 14. When needling at GB 30, oblique insertion was carried out with a depth of 13-20 mm. towards the direction of nasal tip, twirling for reducing method was adopted to make the needling sensation spread to eyes. Perpendicular insertion was carried out with a depth of 25-30 mm at GV 14, and 13-20 mm at BL 12 and BL 13. Even reinforcing and reducing method was adopted at the three points to the extent that heavy and swelling sensation generated in the point areas and chest. Downward penetration needling. towards Yingxiāng (迎香 LI 20) was carried out with a depth of 13-20 mm at EX-HN8, and twirling method was performed to the extent that sore and swollen. sensation generated in the nose. Acupuncture was conducted for once a day with the needle retention of 30 min, and manipulation was carried out for twice during needle retention. After needle withdrawal, a fire cup was applied between GV 14 and BL 13, and the cup was retained for 10 mm. Treatment for 15 times was considered as 1 course of treatment Three days were free from treatment between courses, and 3 courses were needed. The curative effect was evaluated after treatment ends, and follow-up visit was performed one year after treatment.

## OBSERVATIONAL INDICES

#### Symptom score criteria

The score of "string symptom" was refined by reference to the criteria in *Diagnostic and Treatment Guidelines for Allergic Rhinitis*<sup>80</sup>, and the details are shown in Table 1 and Table 2.

## Efficacy evaluation criteria

By reference to the criteria in Diagnostic and Treatment Guidelines for Allergic Rhimitis<sup>®</sup>. Curative

Table 1 Score criteria of tching symptom for allergic rhinitis

Sympton	Mild (1 poors)	Moderate (2 points)	Severa (I points)
Rhanomesmus	Intermittent	Tolerable formication sign	Intolerable formication sign
Eyeltdring	Intermittent	Tolerable	Entral erable
Throat dehing	Intermittent	Tolerable	Intolerable
Skin it dung	Intermitten:	Telerable	Entail erabile

Table 2 Score criteria of nasal symptom for allergic rhinitis.

Sympton.	Mild (1 print)	Moderate (2 points)	Severe (3 points)	
Sneezing	3-0 mamentime	10-14 meassitime	Over 15 answesshime	
Runny nose	4 times day	5-9 timesting	Over 13 tax.rs/day	
Nami congestion	Occasional	Bateway mild and severa	Heasthing through the mouth almost all the day	

effect was evaluated according to the massi symptom score and itching symptom score. Curative effect index = [(Total score before treatment = Total score after treatment) ÷ Total score before treatment] × 100%. Markedly effective curative effect index ≥ 66%. effective 65% > curative effect index ≥ 26%. meffective curative effect index ≥ 26%.

## IgE detection method

Serum IgE level was detected after the treatment ends by adopting Siemens IMMULITE2000 fully automatic chemiluminescence immunoanalyzer through the manipulations strictly conforming to the apparatuses and reagents specification. Reference range 0-87 IU/nL.

## Statistical analysis

SPSS 13.0 statistical analysis software was adopted. The scores and serum IgE levels before and after treatment and one year after treatment were compared by using r-test, and the differences were statistically againfront when P<0.05

#### RESULTS

## Scores of nasal symptoms and itching symptom of patients with allergic rhinitis

According to the comparison of scores in Table 3, the scores of nasal symptoms and itching symptom after treatment and one year after treatment significantly reduced when compared with that before treatment (all  $P \le 0.05$ ), the difference was not statistically significant when compared the scores of nasal symptoms and itching symptom one year after treatment with that after treatment (ends both  $P \ge$ 0.05)

## Overall curative effect

According to Table 4, and the follow-up wish performed in the patients with allergic rhinitis one year after treatment, the markedly effective and effective cases reduced, meffective cases increased, and the total effective rate declined slightly.

## Serum IgE detection results

The seriam IgE levels both after treatment [(164.79 $\pm$ 44.29) IU/mL] and one year after treatment [(190.71 $\pm$ 52.81) IU/mL] significantly reduced when compared with that before treatment [(380.12 $\pm$ 61.45] IU/mL, both P<0.05), the seriam IgE level one year after treatment increased when compared with that after treatment, but the difference was not statistically significant (P>0.05).

## TYPICAL CASE

Patient CAI, female, 35 years old, worker, visited the hospital on August 2, 2015. Chief complaint she has suffered from sneezing, rusny nose, eye itching and skin itching after smelling off-odor for 5 years, and aggravated for 10 days. Five years ago, the patient suffered from sneezing concomitantly with eye itching and skin itching on the back and arms and legswithout any obvious inducement. She was diagnosed with inticaria in the department of dermatology of a prefecture-level hospital. The was given auti-allergy drugs (oral administration). The symptoms were controlled when she was taking medicines, but they relapsed after drug withdrawal. Ten days ago, the patient suffered from frequent sneezing, eye itching and skin itching after smelling off-odor. She took anti-allergy drugs, but the efficacy was not obvious, so she came to our hospital for treatment. Physical examination: rhinoscopy showed pale mucosa, moderate swelling in the inferior nasal concha, and small gap between the inferior rasal concha and nasal septom. The tongue was light red, the coating was thin and white, and the pulse was floating and moderate. Western medicine diagnosis: allergic chimitis, TCM diagnosis: blyth (wind-pathogen invading the lung). Treatment principles: diffusing the lung and dispelling the pathogen, dispelling wind and relieving itching Acupoint selection: GB 20 (bilaterally), GV 14, BL 12 (bilaterally), BL 13 (bilaterally) and EX-HN8

cases(%)

Table 3 Comparison of scores of nasal symptoms and tiching symptom of patients with allergic rhinitis (F4s)

Symptom	Potiente	Before treetment	selfrar tonstanaus	follow-up vari
H soul	43	7.41±1.07	2.13±0.42	3.2740.51 (1)
Bulang	40	5.55a3.26	1.8260.541	2,0340,62711

Note: Compared with the score before treatment, " $P\!<\!0.05$ , " $P\!<\!0.85$ , compared with the score after treatment, " $P\!>\!0.05$ 

Table 4 Comparison of the curative effect of patients with a lergic minitis after treatment and one year after treatment

Ties.e	Patients	Mackedy affective	effective	ineffictive	Total affection rate (%)	
After treetrastal	40	23(37.3)	15(37.3)	2(2)	93.0	-
Ose year after treatment	40	20(50.1)	13(93.5)	7(17.5)	\$2.5	

(bilaterally). Manipulations: the patient was asked in sitting position. After disinfection on the acupoint. areas, disposable 0.30 mm × 25 mm filiform needles were adopted for needling at GB 20, BL 12, BL 13 and EX-HN8, and a desposable 0.30 mm × 40 mm filiform needle was used for needling at GV 14. At the time of needling at OB 10, oblique insertion was carried out with a depth of 20 mm towards the direction of nassi tip, twirling for reducing method was adopted to make the needling sensation spread to eyes. Perpendicular insertion was carried out with a depth of 25 mm at GV 14, and 13 mm at BL 12 and BL 13. Even supplementation and drainage method was adopted at the three points to the extent that heavy and swelling rensation generated in the point areas and chest. Downward penetration needling towards Yingxing (迫舌 LI 20) was carried out with a depth of 13~ 20 mm at EX-HNS, and twirling method was performed to the extent that sore and swellen sensation. generated in the nose. A cupuncture was conducted for once a day with the needle retention time of 30 min, and needling manipulation was carried out for twice during needle retention. After needle withdrawal, a fire cup was applied between GV 14 and BL 13, and the cup was retained for 10 min. Acupuncture for 15 times was 1 course of treatment. After treatment for 10 times, steeping and eye itching disappeared, and skin itching was relieved, after treatment for another 5 times, skin itching disappeared without relapse of eye itching. In order to consolidate the curative effect, another course of treatment was given. Follow-up visit. was performed one year after treatment, which showed that sneezing and sumny nose attacked for 3 times without relapse of eye itching and skin itching.

## DISCUSSION

AR belongs to the category of baras in traditional Chinese medicine<sup>01</sup>, and itching symptom is caused by AD and allergic conjunctivitis which are related with AR. This disease is related to wind-cold invading the lung, so treatment should be conducted from the perspective of "wind". Shao's "five-needling method" was invented by professor SHAO Jing-ming, the founder of "Henan Shao's Acapuncture-monibustion School", based on the theory of "the lung is related to the nose". Professor SHAO Jing-ming has obtained distinguished curative effect in treatment of allergic rianates from the perspective of "lung"81 "Wand is the primary pathogen", which invades the body from mouth; nose and skin. Firstly, the wind invades the skin and hair, and "hides in the skin, which cannot unblock internally or discharge externally", thus affecting the diffusing and dispelling functions of the lung. Secondly, the wind invades the nassl passage and arrives at the lung through the throat and air passage, further affecting the diffusing and dispelling functions of the lung. Therefore, sneezing, runny nose and stehing symptom will be induced Professor CHAO En-ziang, a TCM master, believes<sup>(1)</sup> that runnocnessous, sneezing, and skin sching, etc. induced by allergic rhimits are characterized by paroxysm and symptom diversity, which are identical to the feature that "wind is swift and changeable", thus good efficacy can be obtained during the treatment from the perspective of "wind".

OB 20 is the intersecting point between the foot-shooyang meridian and yangwei vessel, and a key point for the wind invading the body. As a vital point for treatment of internal or external windpathogen, acaptaneture at GB 20 can despel wind and dispel pathogen, calm the liver and open the crifices. GV 14 is the intersecting point between the three yong meridians of the hand and foot and governor vessel, acapuncture at which can remove the wind and release the exterior, diffuse young and dissipate cold WU Ji-hong's study H have demonstrated that acapuncture at GV 14 of the games pag with astirms can significantly reduce the total serum IgE level. BL 12 is the intersecting point between the foottoward bladder mendian and governor vessel, and a key point for the wind-pathogen invading the body. Acoponicture at BL 12 can scatter the wind and release the exterior, and rectify the lung gr. BL 13, with the functions of rectifying lung or, fill up the interstitual space and consolidating wer gr, is a main point for treatment of hang diseases, which can treat the internal injury and externally contracted diseases of the hing? Professor SHAO Jing-ming 381 has found according to plenty of clinical observation that "Shao's fiveneedling method" can significantly reduce the serum IgE level of patients, and return it to the normal level. EX-HNS is an extra point, which locates at the nose, and the adjoining part of the hand-yongwing meridian and the foot-youghing meridian. The interior-exterior relationships between the king and large intestine as well as between the spleen and stomach guarantee that acupuncture at EX-HNS can unblock the mendians of lung, spleen, stomach and large intestine, diffuse lung qu, unblock the nasel cavity and dispel windpathogen EX-HNO is a key point for treatment of various nasal diseases<sup>(1)</sup> Study<sup>(1)</sup> have confirmed that the mechanism of acapaneture at the perirhinal points for treatment of allergic rhimtin is to reduce the generation and release of histamine through regulating the autonomic nervous system and the permeability of capillary in the nasal cavity, further controlling the exudation of inflammatory substances.

The result of the study indicate that significant short-term and long-term curstive effects have been obtained during the treatment of "itching symptom" of allergic rhinitis from the perspective of "wind", and its mechanism of action may be related with the reduction of serum IgE level of patients with allergic rhinitis.

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## ABSTRACT IN CHINESE

[獨 要] 目的: 现家从"风"论治过版性鼻炎患者之"痒症"的临床疗效。方法: 对40例患者采用针刺风池(双)、交难、风门(双)、转角(双)、上迎香(双)进行治疗、去针后在交难、肺俞之间加被1号火罐一个、智罐10 mm。治疗15次为1疗程、疗程同体息3天、共治疗3个疗程。治疗结束后评价疗效、治疗结束后1年进行随话。结果: 治疗后即则与治疗后1年具部症状、痒症评分校治疗前评分均显著降低(均产<0.05);治疗后1年具部症状、痒症评分与治疗后即刻评分比较无统计学愈义(产>0.05)。患者治疗后1年随话、星效、有效例数有所下降、无效例数有所升高、总有效率稍有下降。治疗后即则应清1gE水平(164.79±4+29)[U/mL、治疗后1年血清1gE水平(180.71±52.81)[U/mL与治疗前血清1gE水平(380.12±61.45)[U/mL比较均层著下降(均产<0.05);治疗后1年血清1gE水平较治疗后血清1gE水平(380.12±61.45)[U/mL比较均层著下降(均产<0.05);治疗后1年血清1gE水平较治疗后血清1gE水平(380.12±61.45)[U/mL比较均层著下降(均产<0.05);治疗后1年血清1gE水平较治疗后血清1gE水平(均产>0.05)。结论:从"风"论治过敏性鼻炎患者之"痒症"信有过缓解鼻部症状,降低血清1gE水平。结论:(1)从"风"论治过敏性鼻炎患者之"痒症"有良好的近期。近期疗处:(2)其作用机制可能与降低血清1gE水平有关:(3)提示过敏性鼻炎与特应性皮炎、这般性结膜炎等特皮性疾病之间存在相关性。[美體圖] 过敏性鼻炎 痒症 风邪 血清1gE