

**10. Respiratory Diseases (including Influenza and Rhinitis)****Reference**

Yoshimoto T, Mori H, Kurata H, et al. Comparative study of Kampo preparations sho-sei-ryu-to and maoh-bushi-saisin-to for nasal allergy and allergic conjunctivitis in spring. *Therapeutic Research* 2002; 23: 2253-9 (in Japanese with English abstract). Ichushi Web ID: 2003161479 [MOL](#), [MOL-Lib](#)

**1. Objectives**

To compare the effects of shoseiryuto (小青竜湯) and maobushisaishinto (麻黄附子細辛湯) in treating springtime nasal allergy and allergic conjunctivitis.

**2. Design**

Quasi-randomized controlled trial (quasi-RCT).

**3. Setting**

Five clinics of internal medicine, Japan.

**4. Participants**

Of the patients who visited the above-mentioned clinics for the first time with springtime nasal allergy and allergic conjunctivitis (allergic rhinitis), 66 having previously diagnosed pollen hypersensitivity/pollinosis or newly diagnosed rhinitis with increased eosinophils in nasal discharge and elevated IgE level were enrolled. Exclusion criteria were: “*kyo-sho* (虚証, deficiency pattern),” sinusitis, nose disorders such as nasal septal deviation, conjunctivitis other than allergic conjunctivitis, pregnancy, and refusal to take Kampo medicines.

**5. Intervention**

Arm 1: TSUMURA Shoseiryuto (小青竜湯) Extract Granules (TJ-019) 3.0 g t.i.d., n=34.

Arm 2: TSUMURA Maobushisaishinto (麻黄附子細辛湯) Extract Granules (TJ-127) 2.5 g t.i.d., n=32.

Concomitant drug use was prohibited, with the exception of Intal eye drops or nasal spray for severe and intolerable symptoms.

**6. Main outcome measures**

Symptom improvement: Each of nose and eye symptoms after 2-week administration was rated on a 5-point scale (markedly improved, moderately improved, slightly improved, unchanged, and aggravated).

Global improvement: The severity of illness (nose and eye symptoms) after 2-week administration, compared with that before treatment, was rated on a 5-point scale (as maobushisaishinto acts rapidly, change in the symptoms was recorded beginning one week after the initiation of treatment.)

Overall safety: Adverse drug reactions after 2-week administration were evaluated on a 5-point scale.

Usefulness: The global improvement combined with overall safety was assessed on a 5-point scale (very useful, useful, slightly useful, indiscernible, and useless).

**7. Main results**

Slight-to-marked (or moderate-to-marked) improvement was seen in each of the following symptoms: sneezing (41.2% and 59.4% in arms 1 and 2, respectively), rhinorrhea (47.1% and 53.1%), nasal obstruction (58.8% and 37.5%), periocular pruritus (35.3% and 45.2%), lacrimation (23.5% and 19.4%), and ocular discharge (11.8% and 9.7%). The chi-square test and Mann-Whitney *U* test revealed no significant differences in improvement of any symptoms between the two arms. Also, there was no significant difference between the arms in global improvement (slight-to-marked global improvement in 67.6% and 71.9% for arms 1 and 2, respectively, and moderate-to-marked global improvement, 52.9% and 53.1%). As for usefulness, interventions were assessed to be “useful or very useful” in 50% for arm 1 and 50% for arm 2, with no significant between-arm difference.

**8. Conclusions**

Maobushisaishinto is suggested to be as effective as shoseiryuto in treating springtime nasal allergy and allergic conjunctivitis.

**9. From Kampo medicine perspective**

Maobushisaishinto is more suitable than shoseiryuto for treating subjects with “*kyo-sho*,” who are frail or elderly.

**10. Safety assessment in the article**

No adverse drug reactions were observed in either arm.

**11. Abstractor’s comments**

This study followed a RCT of shoseiryuto for nasal allergy and allergic conjunctivitis in spring (*Jibiinkoka Rinsho [Practica otologica]* 1995; 88: 389-405 [in Japanese]), and uses the same outcome measures. However, patients were allocated sequentially and not properly randomized, making this study a clinical controlled trial (CCT: quasi-RCT). Results with no significant differences in this study provide a new therapeutic option for springtime nasal allergy and allergic conjunctivitis, and can be regarded as clinically meaningful.

**12. Abstractor and date**

Tsuruoka K, 15 June 2007, 1 April 2008, 1 June 2010.