

P3-57

The Immunomodulatory Effect of ST0036 on Dermatogoides-pteronyssinus-Induced Asthma

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Background : Hyperplasia of goblet cells is major symptom of asthma patient. We previously found that a traditional Chinese medicine, You-Gui-Wan, exerts its therapeutic/prophylactic effects in chronic allergic asthmatic mice via its anti-inflammatory activity and by inhibiting the progression of airway remodeling.

Objective : The objective of this study was to investigate the St0036, derived from You-Gui-Wan, is similarly activities of anti-inflammatory and anti-hyperplasia.

Methods : BALA/c mice were given orally administered of St0036 (1g/kg) before intratrachelly (i.t.). Allergic airway inflammation and remodeling were provoked by repetitive Der p (50 μ g /mice.) challenge for a period of 5 weeks (five times at 1-wk intervals). Airway hypersensitivity, lung histological features, and serum antibody were assessed.

Results : St0036 reduced airway hyperresponsiveness, and inhibited eosinophil infiltration. In analysis Histopathology outcomes, St0036 reduced hyperplasia of goblet cells in the lung. Moreover, after St0036 treatment there was a relative decrease total Ig E、CD3+/CD4+ and CD3+/CD8+ of St0036 group mice.

Conclusion: These results suggest that St0036 exhibits anti-airway hyperresponsiveness and specific immunoregulatory effects in a chronic asthmatic mice model.

關鍵字(keyword) : Traditional Chinese Medicine、 You-Gui-Wan、 Asthma、 Dermatogoides-pteronyssinus