

Plasma Metabonomics Characteristics of Lung and Defensive Qi Deficiency Syndrome in Repeated Upper Respiratory Infection Patients and Clinical Effects of Yupingfeng Particles (玉屏风颗粒) Intervention

LIN yan¹, WANG Yali¹, WANG Xinguo², ZHANG Mingquan², WANG Wenzhi², GENG Limei³, SUN Yufeng⁴, CAO Wenli², SHI Xuliang²

(1. Graduate College of Hebei Medical University, Hebei, 050017; 2. Hebei University of Chinese Medicine; 3. Chinese Medicine Hospital of Hebei Province; 4. The Second Hospital of Hebei Medical University)

ABSTRACT Objective To use metabonomics method to study the potential syndromes markers about lung and defensive Qi deficiency syndrome of repeated upper respiratory infection (URI) and observe clinical effects and possible mechanism of action of Yupingfeng Particles. **Methods** Fifteen patients with lung and defensive Qi deficiency syndrome of repeated URI (disease group) were given Yupingfeng Particles, 5 g each time, three times a day for a total of 60 days. Eighteen healthy subjects were collected as health group at the same time. Blood samples from the healthy and the disease group were collected before and after treatment. High performance liquid chromatography mass spectrometry instrument (HPLC-MS) was used to detect plasma metabolites, and principal component analysis (PCA) and partial least squares (PLS) was used to make statistical analysis to the data for comparing plasma metabonomics original spectra and data of the healthy group and the disease group before and after treatment. **Results** After treatment, clinical symptoms such as susceptibility, chills, spontaneous perspiration of patients in the disease group improved significantly ($P < 0.01$). Curative effect of traditional Chinese medicine syndrome in the disease group showed that clinical recovery were 4 cases, 7 cases were markedly effective, 3 cases were effective and the total effective rate was 93.34%. Metabolic spectrum of the disease group was significantly different from the health groups before the treatment. The disease group's metabolic spectrum has significant changes after Yupingfeng Particles intervention, regressed to the health group. Four kinds of material including Cysteine, L-methionine, threonine, pyroglutamic acid were potential syndrome markers of lung and defensive Qi deficiency syndrome of repeated URI. **Conclusion** Patients with lung and defensive Qi deficiency syndrome of repeated URI had disorder of amino acid metabolism. Correcting disorder of amino acid metabolism may be one of the mechanisms of action that Yupingfeng Particles in treatment of lung and defensive Qi deficiency syndrome.

Keywords repeated upper respiratory infection; lung and defensive Qi deficiency syndrome; Yupingfeng Particles (玉屏风颗粒); metabonomics

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第三届岐黄论坛隆重召开

【本刊讯】2015 年 7 月 18 日, 由中华中医药学会主办, 北京康仁堂药业有限公司、神威药业集团有限公司、四川好医生药业集团有限公司协办的第三届岐黄论坛在北京隆重召开。论坛以“落实国家战略, 发展健康服务”为主题, 旨在立足传统, 面向未来, 促进岐黄之学薪火相传, 推动岐黄之术革故鼎新。来自中医药医疗、保健、教育、科研、管理、文化、产业相关专家学者 1200 余人参加了本次论坛。

开幕式上, 国家中医药管理局副局长、中华中医药学会副会长马建中对发展中医药健康服务业提出三点意见, 一要加快构建中医药健康服务体系、二要积极发展中医药健康服务新业态、三要加快中医药健康服务支撑体系发展。国家科学技术奖励工作办公室主任邹大挺, 中国科协党组成员、书记处书记王春法出席会议并讲话。中华中医药学会副会长、北京市中医管理局局长屠志涛宣读了《关于设立中华中医药学会学术委员会的决定》及学术委员会名单。开幕式后, 中国中西医结合学会陈香美院士, 国家科技部发展战略研究院王宏广副院长, 国医大师徐经世教授, 中国中医科学院院长张伯礼院士, 广州中医药大学第一附属医院冼绍祥院长和中国中医科学院广安门医院肿瘤科林洪生主任分别做大会报告。当日下午, 中医养生康复论坛、妇科炎症中医药防治论坛、肿瘤中医药防治论坛、中医经典传承创新论坛、心脑血管疾病中医药防治论坛、中医药标准化工作论坛、中药传承创新应用论坛、眼科疾病中医药防治论坛等 8 个分论坛同期召开, 并取得圆满成功。

论坛还得到了中国中医科学院、北京中医药大学、上海中医药大学、广州中医药大学、南京中医药大学、成都中医药大学和天津中医药大学的大力支持。