



Effect of single herb of Li Dan Pai Shi Tang on motility of gallbladder in normal subjects

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Abstract

AIM: Li Dan Pai Shi Tang is composed of Herb Lysimachiae, Artemisiae Scopariae, Curcumae, Aromaticae Citrus Aurantium Saussurea Lappa and Rheum Palmatum. It has good effects of promoting the secretion and discharge of bile and eliminating gallstones. These effects have been confirmed by clinical practice. But the effects of each herb on motility of gallbladder are unknown. This study is to investigate the effects of single herb of Li Dan Pai Shi Tang on motility of gallbladder and provide experimental basis for clinical differentiation of symptoms and treatment of gallbladder disorders.

METHODS: Healthy volunteers 60, male 30, female 30, age 20-60, mean 42.6 years old. They were randomly divided into 6 groups, each group had 5 males and 5 females, and took one herb. For all subjects, the history of biliary diseases had been ruled out. Real time ultrasonic examination showed that the size and morphology

of gallbladder were normal. We took the fasting gallbladder volumes (FGVs) and water was double comparison, after each subject of one group took 200 mL decoction of same single herb respectively, the changes of size of gallbladder were observed by ultrasound in 30, 60, 90 min. Single blind ultrasonography was conducted by a same operator with Ultra mark 9 and GVs were measured and recorded. Each subject for two times, taking mean value for calculation. $GVs = \text{length} \times \text{width} \times \text{thickness} \times 0.52$.

RESULTS: 30 min after taking Herba Lysimachiae, Saussurea Lappa, and Curcumae Aromaticae, the GVs were markedly smaller than FGVs ($P < 0.01$). Herb Lysimachiae had the most obvious effect, it reduced GVs by 38.6%. 30 min after taking Artemisiae Scopariae, the GVs were markedly larger than FGVs ($P < 0.01$). 30 min after taking Rheum Palmatum, the GVs became smaller ($P < 0.05$), but in 60-90 min, the gallbladder gradually enlarged and finally exceeded FGVs ($P < 0.05$). 30-90 min after taking Citrus Aurantium, the GVs had no change compared with FGVs.

CONCLUSION: Different herbs in the recipe have different effects on motility of gallbladder but its leading role is to contract the gallbladder.

Key words: Li Dan Pai Shi Tang; Gallbladder; Contract

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