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## 栀子厚朴汤配伍变化对柚皮素与橙皮素药代动力学的影响

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**中文摘要:**研究大鼠灌胃给予枳实、枳实-栀子、枳实-厚朴和栀子厚朴汤4种配伍汤剂后柚皮素与橙皮素在血浆中的药代动力学。将SD大鼠随机分为4组,分别灌胃枳实、枳实-栀子、枳实-厚朴、栀子厚朴汤剂10.83 mL/kg,采用HPLC法测定各汤剂给药后的血药浓度,计算药代动力学参数。结果表明4种不同配伍方给药后,柚皮素与橙皮素的药代动力学参数有差异。栀子厚朴汤不同配伍对柚皮素与橙皮素在大鼠血浆中的药代动力学存在不同的影响。栀子或厚朴能够延缓柚皮素与橙皮素的达峰时间;厚朴能够显著地增加橙皮素的AUC<sub>0-24h</sub>;枳实、栀子、厚朴3味药材共同配伍应用时减少了柚皮素与橙皮素的达峰时间,使柚皮素的AUC<sub>0-24h</sub>降低,同时使橙皮素的AUC<sub>0-24h</sub>增加,但增加程度低于枳实-厚朴组。实验结果显示药材配伍对相同成分的药代动力学行为有影响。

**中文关键词:**[栀子厚朴汤](#) [配伍](#) [柚皮素](#) [橙皮素](#) [HPLC](#) [药代动力学](#)

## Effect of different formula compatibility of Zhizi Houpu decoction on the pharmacokinetics of naringenin and hesperetin

**Abstract:**The objective of this paper was to obtain pharmacokinetic parameters from concentration-time data of naringenin and hesperetin in rat plasma after oral administration of different recipes of Zhizi Houpu decoction (ZZHPD) which contained HP (Magnoliae Officinalis Cortex),ZS (Aurantii Fructus Immaturus) and ZZ (Gardeniae Fructus),including ZS,ZS-ZZ (ZS and ZZ),ZS-HP (ZS and HP) and ZZHPD (ZS,ZZ and HP).The effects of different recipes of ZZHPD on the pharmacokinetics of naringenin and hesperetin in rat plasma were investigated.Twenty-four rats were randomly divided into four groups,and treated with ZS,ZS-ZZ,ZS-HP and ZZHPD (10.83 mL/kg),respectively.The plasma concentrations of four recipes were determined by HPLC,and the pharmacokinetic parameters of naringenin and hesperetin in these recipes were evaluated.The pharmacokinetic parameters of naringenin and hesperetin were different after oral administration of four decoctions according to ZS combined with different herbal medicines.ZZ and HP could delay the absorption of naringenin and hesperetin,and HP could significantly increase the AUC<sub>0-24 h</sub> of hesperetin; the compatible effect of herbs in ZZHPD could accelerate the absorption rate of naringenin and hesperetin,reduce the AUC<sub>0-24 h</sub> of naringenin and increase the AUC<sub>0-24 h</sub> of hesperetin with the enhance extend less than that of ZS-HP group.The pharmacokinetic parameters of the two compounds obtained in this work showed that the pharmacokinetics of naringenin and hesperetin were influenced diversely when ZS was combined with different herbal medicines.

**keywords:**[Zhizi Houpu decoction](#) [compatibility](#) [naringenin](#) [hesperetin](#) [HPLC](#) [pharmacokinetics](#)

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