



丹参酚酸A对大鼠肝微粒体细胞色素P450酶系的影响

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中文摘要:目的:研究丹参酚酸A对大鼠肝微粒体细胞色素P450和细胞色素 b_5 含量以及CYP1A2和CYP2E1活性的影响。方法:将大鼠分成溶剂对照组和丹参酚酸A给药组,每组10只,雌雄各半,丹参酚酸A给药组尾静脉注射给予丹参酚酸A $20 \text{ mg} \cdot \text{kg}^{-1} \cdot \text{d}^{-1}$ 连续给药5 d,溶剂对照组给予相同剂量的溶剂,紫外分光光度法测定大鼠肝微粒体细胞色素P450和细胞色素 b_5 含量;探针底物法评价CYP1A2和CYP2E1的活性。结果:丹参酚酸A尾静脉注射连续给药5 d后,大鼠细胞色素P450和细胞色素 b_5 含量与对照组比较均无显著性差异,CYP1A2和CYP2E1的活性与对照组比较也无显著性差异。结论:丹参酚酸A对CYP1A2和CYP2E1没有诱导或抑制作用,与经过CYP1A2和CYP2E1代谢的药物发生相互作用的可能性较小。

中文关键词:丹参酚酸A 细胞色素P450 CYP1A2 CYP2E1 细胞色素 b_5

Effects of salvianolic acid A on rat liver microsomal cytochrome P450 system

Abstract:Objective: To study the effects of salvianolic acid A on content of cytochrome P450, cytochrome b_5 and CYP1A2, CYP2E1 activities of rats. Method: The rats were randomly divided into two groups and each group contained 5 male rats and 5 female rats. One is control group, another is dosage group. The dosage group was injected salvianolic acid A into a rat tail vein at doses of $20 \text{ mg} \cdot \text{kg}^{-1} \cdot \text{d}^{-1}$ for 5 days. The control group was injected placebo into a rat tail vein at the same doses as the dosage group. The content of cytochrome P450 and cytochrome b_5 of rats were assayed using UV and CYP1A2, CYP2E1 activities were evaluated using probe substrate. Result: After salvianolic acid A was injected into rats tail vein for 5 days, the total content of cytochrome P450 and cytochrome b_5 and CYP1A2 and CYP2E1 activities have no statistical significance of differences than the control group. Conclusion: Salvianolic acid A has no effects on CYP1A2 and CYP2E1 activities, indicating that there is no interaction between salvianolic acid A and the drugs metabolized by CYP1A2 or CYP2E1.

keywords: salvianolic acid A (Sal A) cytochrome P450 (CYP450) CYP1A2 CYP2E1 cytochrome b_5
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