



半夏泻心汤及不同配伍组对大鼠肝脏 CYP450酶活性的影响

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中文摘要:目的:研究半夏泻心汤及不同配伍组对大鼠肝微粒体CYP450亚型酶的影响,从肝脏代谢角度评价半夏泻心汤组方的合理性。方法:将大鼠随机分为全方组、辛开组、苦降组、甘补组及空白对照组,分别灌胃水煎液,运用肝微粒体体外温孵法,对探针底物进行孵育,并结合超高效液相检测方法,测定各探针底物代谢产物的含量,计算代谢速率,以反映各给药组的肝微粒体CYP2C6、CYP2E1、CYP3A1/2亚型酶活性。结果:与空白组相比,全方组、苦降组对各亚型酶均起抑制作用($P < 0.01$);辛开组对CYP2C6有抑制作用($P < 0.01$),而对CYP2E1和CYP3A1/2无显著抑制作用;甘补组对CYP2C6和CYP2E1亚型起抑制作用($P < 0.01$),而对CYP3A1/2无抑制作用。结论:全方对大鼠肝微粒体CYP450酶起抑制作用,比较各配伍组间差异,苦降组抑制作用较其他配伍组显著。

中文关键词:半夏泻心汤 配伍 CYP450酶 肝代谢 温孵

In vitro effect of Banxiaxiexin Tang and different combinations on hepatic CYP450 in rats

Abstract:To study the effect of Banxiaxiexin Tang and different combinations on CYP450 in rat liver microsomes, from the point of liver metabolism, evaluate significance of Banxiaxiexin Tang compatibility. The rats were randomly divided into five groups: Banxiaxiexin Tang group, pungent-swelling group, bitter-descending group, sweet-invigorating group and control group, which were all given decoction by gavage. Using liver microsomes *in vitro* incubation method, probe substrate were incubated and their metabolites was detected by ultra-high performance liquid chromatography, then was calculated metabolic rate to reflect the drug-treated liver microsomes CYP2C6, CYP2E1, CYP3A1/2 activity. The results showed that comparing with the control group, both Banxiaxiexin Tang group and bitter-descending group showed inhibition on all enzyme subtype ($P < 0.01$), pungent-swelling group showed significant inhibition on CYP2C6, but no inhibition on CYP2E1 and CYP3A1/2; sweet-invigorating group showed inhibition on CYP2C6 and CYP2E1, but no inhibition on CYP3A1/2. Compared the inhibition on CYP with the three combinations, bitter-descending group was significant higher than other groups. Banxiaxiexin Tang group showed inhibition on rat liver microsomes CYP450, and the activity maybe come from bitter-descending group.

keywords: Banxiaxiexin Tang combinations CYP450 liver metabolism incubation

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