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远志-厚朴配伍对厚朴酚、和厚朴酚胃肠代谢的影响

Influence of Polygalae Radix Compatibility with Magnoliae Officinalis Cortex on Content of Honokiol Kind Material in Rats Gastrointestinal Liquid and Plasma

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中文关键词: 远志配厚朴 HPLC 胃液-肠液-血浆 厚朴酚 和厚朴酚

英文关键词: Polygalae Radix compatibility with Magnoliae Officinalis Cortex HPLC gastric intestinal juice and plasma magnolol honokiol

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中文摘要:

目的: 研究远志配厚朴对大鼠在胃液-肠液-血浆中不同时间厚朴酚、和厚朴酚含量的影响。 方法: 利用甲醇沉淀蛋白处理胃、肠液及血浆样品,采用HPLC测定,色谱条件为Synergi Hydro-RP C_{18}色谱柱(4.6 mm×250 mm,5 μm),乙腈-水(51:49)为流动相,流速1 mL·min^{-1},检测波长294 nm,柱温30 ℃。 结果: 厚朴组及远志配厚朴组大鼠胃肠液中均测得厚朴酚与和厚朴酚,且配伍组各时间点胃液中的酚类物质含量明显高于单味厚朴组;给药150~480 min时段肠液中的含量高于厚朴组;血浆中仅测得和厚朴酚,配伍组于给药60~480 min时段血浆中和厚朴酚含量高于厚朴组,并有推迟吸收趋势。 结论: 远志配伍厚朴后,可能因远志的助溶效应使胃肠液中的厚朴酚与和厚朴酚含量增加,从而发挥缓解远志胃肠动力障碍作用。首次采用此法,对厚朴缓解远志胃肠动力障碍的胃肠吸收机制开展了探索性研究,具有一定新意。

英文摘要:

Objective: To study the influence of Polygalae Radix compatibility with Magnoliae Officinalis Cortex to the chemical composition in rats gastrointestinal liquid and plasma. Method: Treating plasma with methanol protein precipitation, the residues were analyzed with HPLC system (Synergi Hydro-RP C_{18} column, 4.6 mm×250 mm, 5 μm), with the mobile phase consisted of acetonitrile-water (51: 49), flow-rate of 1 mL·min^{-1}, detected-wavelength of 294 nm, and column temperature of 30 ℃. Result: Magnolol and honokiol were detected in both of the Magnoliae Officinails Cortex group and the campatibility group's rats gastric intestinal juice and plasma, and the content of honokiol kind material in campatibility group's rats of gastric juice was obviously higher than the other group at every time piont. The content in rat's intestinal juice was higher than the magnoliae officinails group's rats after ig 150-480 minutes. There are only honokiol which had been detected in the rat's plasma, and the content of it in compatibility group's plasma was much higher than the other group after ig 60-480 minutes, with the trending of delayed absorption. Conclusion: After the compatibility of Polygala and Magnoliae Officinails Cortex, magnolol and honokiol were increased significantly in Magnolia, which may be relevanted with Magnolia relieving Polygala inhibition of gastrointestinal motility. First adopted this method to study the mechanism of Magnolia relieving Polygala inhibition of gastrointestinal motility, which had some innovation significance.

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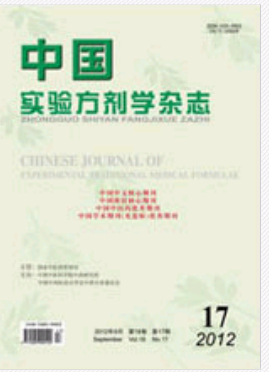

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