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清开灵注射剂等5种中药注射剂对大鼠肝微粒体 CYP3A的体外抑制作用

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中文摘要:目的: 考察清开灵注射剂、金纳多注射剂、麻血通注射剂、参麦注射剂、康艾注射剂这5种临床常用的中再注射剂对大 层肝微皮体CVP3A的体外抑制作用、预测定生药物阻工作用的可能性、以确保这些中药注射剂临床应用的安全性与有效性。 方法: 采用D大人属植物体体外等自然。在等自任务中加入线物等相和下间体积的消开灵注射剂等种中药注射剂品放液相色能洗润 定睾酮的径代试测产物炉产基率瞬间中点能复吸 CVP3A的活性-根原映用作取过水组药。 结果 -在体外孵育体系中。10%的消开灵 注射剂大管抑制等20%的的产品基等解的生成量反映CVP3A的活性-根原映用作取过水组药。 结果 -在体外孵育体系中。10%的消开灵 注射剂大管抑制的20%的的产品来源于成功和发生则显然于正体学和同汞度的中壳注射剂。根据对动动方学验验:详由消 开灵注射剂的fc2gh术值分别为1.0%和0.7%。 結论: 在体外系统中、金纳多注射剂和底血通注射剂对大限肝微粒体CVP3A 无抑制 作用。参麦注射剂和康艾注射剂成CYPAA层示出第的抑制作用。指示支注射剂及CYPAA有明显的抑制作用。提示当清开灵注射剂与经CYPAA代谢的药物联合用药时可能会发生药物相互作用。临床联合用药溪谨慎。

中文关键词:清开灵注射剂 鼠肝微粒体 CYP3A 抑制作用 药物相互作用

${\it In\ vitro\ } inhibition\ of\ five\ traditional\ Chinese\ medicine\ injections\ on\ rat\ liver\ microsomal\ CYP3A$

Abstract-Objective: Qingkailing injection (QKLI), Jinnaduo injection (JNDI), Shuxuetong injection (SXTI), Shenmai injection (SMI) and Kangai injection (KAI) are widely used in China. To predict the herb-drug interactions in clinical application, they were evaluated for their in vitro inhibition effect on CYP3A. of a rat liver microsomes. Method: The rat liver microsomes were incubated with different doses of 5 hydroxytestosterone, the metabolite of testosterone, a specific substrate of CYP3A. of 19 hydroxytestosterone, the metabolite of testosterone, was monitored by HPLC to compare the inhibition effect of 5 TCMIs on CYP3A in rat liver microsomes. Ketoconazole was used as a positive control. Result: 1:0% (KLI reduced the formation of 6β-hydroxytestosterone by approximately 93.0%, which is more significant than other four TCMIs. The half maximal inhibitory concentration (IC₅₀) and the enzyminhibotor constant K, were 1.0% and 0.7% respectively. Conclusion: QKLI showed much stronger inhibition activity against CYP3A, comparing to offset 4 TCMIs. The sixple respectively KLI showed much stronger inhibition activity against CYP3A. comparing to other 4 TCMIs. The results revealed that QKLI may be involved in herb-drug interactions by inhibition of CYP3A

keywords:Qingkailing injection rat liver microsomes CYP3A inhibition herb-drug interactions

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