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中国中药杂志
China Journal of Chinese Materia Medica

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统计矩法评价养阴通脑颗粒各有效部位配伍在脑缺血再灌大鼠中的药动学变化

投稿时间： 2009-10-05 责任编辑：张宁宁 点此下载全文

作者中文名	作者英文名	单位中文名	单位英文名	E-Mail
郭莹	GUO Ying	浙江中医药大学 心脑血管病研究所·浙江 杭州 310053	Institute of Cardio- Cerebrovascular Disease, Zhejiang Chinese Medical University, Hangzhou 310053, China	
杨洁红	YANG Jiehong	浙江中医药大学 心脑血管病研究所·浙江 杭州 310053	Institute of Cardio- Cerebrovascular Disease, Zhejiang Chinese Medical University, Hangzhou 310053, China	
张恒义	ZNANG Hengyi	浙江大学 生物医学工程与仪器科学学院·浙江 杭州 310027	College of Biomedical Engineering & Instrument Science, Zhejiang University, Hangzhou 310027, China	
傅旭春	FU Xuchun	浙江大学 城市学院 药物研究所·浙江 杭州 310015	Institute of Materia Medica, Zhejiang University City Collegy, Hangzhou 310015, China	
张宇燕	ZHNAG Yuyan	浙江中医药大学 心脑血管病研究所·浙江 杭州 310053	Institute of Cardio- Cerebrovascular Disease, Zhejiang Chinese Medical University, Hangzhou 310053, China	
万海同	WAN Haitong	浙江中医药大学 心脑血管病研究所·浙江 杭州 310053	Institute of Cardio- Cerebrovascular Disease, Zhejiang Chinese Medical University, Hangzhou 310053, China	

中文摘要:目的: 应用总量统计矩法研究中药复方养阴通脑颗粒主要有效部位的不同配伍对主要活性成分药动学参数的影响。 方法 :以养阴通脑颗粒中的主要有效部位生物碱、黄酮、皂苷、挥发油的量作为配伍的质量控制标准·按正交试验法设计复方主要有效部位的配伍实验;在不同时间点上检测川芎嗪和葛根素的血药浓度;分别计算川芎嗪和葛根素在各配伍条件下的零阶矩和平均滞留时间;再计算葛根素和川芎嗪的总量零阶矩和总量平均滞留时间。 应用正交分析法分析配伍对其药动学参数的影响。 结果 :黄酮对葛根素和川芎嗪的总量零阶矩影响最大;生物碱对葛根素和川芎嗪的总量平均滞留时间影响最大;皂苷对2个总量统计矩参数的影响都很小·而挥发油对2个总量统计矩参数的影响都较大·提示挥发油可能促进葛根素和川芎嗪在大鼠体内的代谢。 结论 :总量统计矩参数可用于指导中药复方的配伍研究。

中文关键词:养阴通脑颗粒;药物代谢动力学;总量统计矩;零阶矩(AUC);一阶矩(平均滞留时间 MRT);葛根素;川芎嗪

Value influence of different compatibilities of main active partsin Yangyintongnao granule on pharmacokinetics parameters in ratswith cerebral ischemia reperfusion injury by total amountstatistic moment method

Abstract: Objective : To study the influence of the different combinations of the main active parts in Yangyintongnao granule on the pharmacokinetics parameters of the two active components- ligustrazine and puerarin using the method of total amount statistic moment for pharmacokinetics. Method : Combinations were formed according to the dosages of the four active parts (alkaloid, flavone, saponin, naphtha) by orthogonal experiment $L_9(3^4)$. Blood concentrations of ligustrazine and puerarin were determinated by HPLC at different time. Zero rank moment (AUC) and one rank moment (MRT, mean residence time) of ligustrazine and puerarin have been worked out to calculate the total amount statistic moment parameters was analyzed of Yangyintongnao granule by the method of the total amount statistic moment. The influence of different compatibilities on the pharmacokinetics parameters was analyzed by orthogonal test. Result : Flavone has the strongest effect than saponin on the total AUC. Ligustrazine has the strongest effect on the total MRT. Saponin has little effect on the two parameters, but naphtha has more effect on both of them. It indicates that naphtha may promote metabolism of ligustrazine and puerarin in rat. Conclusion : Total amount statistic moment parameters can be used to guide for compatibilities of TCM.

keywords: Yangyintongnao granule;pharmacokinetics;total amount statistic moment;zero rank moment (AUC);one rank moment (MRT mean residence time);puerarin;ligustrazine

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