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桂枝茯苓胶囊主要效应成分在比格犬体内的药代动力学

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中文摘要:目的: 研究桂枝茯苓胶囊中主要成分芍药苷、芍药内酯苷、苦杏仁苷在比格犬体内的药代动力学特征。 方法 :比格犬口服给予桂枝茯苓胶囊0.044 8,0.179 2 g·kg^{-1}后,前肢静脉收集血浆样本,经固相萃取小柱富集后,HPLC-MS/MS检测血药浓度,DAS 2.0软件计算药代动力学参数。 结果 :芍药苷、芍药内酯苷、苦杏仁苷体内检测定量限分别为0.25,2.64,0.04 μg·L^{-1},不同剂量下芍药苷$t_{1/2}$ 分别为4.33,3.62 h;芍药内酯苷$t_{1/2}$ 分别为6.16,5.91 h,苦杏仁苷$t_{1/2}$ 分别为2.43,1.32 h;各成分体内AUC_{0-t}与剂量有较好相关性。 结论 :芍药苷、芍药内酯苷、苦杏仁苷在体内均有较高暴露量,可用二室模型来描述。

中文关键词:芍药苷 芍药内酯苷 苦杏仁苷 桂枝茯苓胶囊 药代动力学

Pharmacokinetics of Guizhi Fuling capsule in beagle dogs

Abstract: Objective : To investigate pharmacokinetic parameters of peoniflorin, albiflorin and amygdaloside after administration of Guizhi Fuling capsule in beagle dogs. Method : Plasma was collected from forelimb vein of Beagle dogs after oral administration of GuizhiFuling capsule. HPLC-MS/MS method was used to determine the concentrations of constituents in plasma. The pharmacokinetic parameters were analyzed by program DAS 2.0. Result : The limit of quantitation of peoniflorin, albiflorin and amygdaloside were 0.25, 2.64, 0.04 μg·L^{-1}, respectively. After administrated with different doses, half-life of peoniflorin in dogs were 4.33, 3.62 h, albiflorin were 6.16, 5.91 h, amygdaloside were 2.43, 1.32 h. The AUC_{0-t} of all components were related to dose. Conclusion : The pharmacokinetic course of peoniflorin, albiflorin and amygdaloside can be described by two-compartment model, and these components have high expose.

keywords:peoniflorin albiflorin amygdaloside Guizhi Fuling capsule phamacokinetics

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