



中文标题 检索 跨刊检索

不同给药途径通窍散瘀方中葛根素在大鼠体内药动学研究

投稿时间: 2011-01-17 责任编辑: 马超 [点此下载全文](#)

引用本文: 陈晓兰,杜守颖,陆洋,赵雪姣,王珊,李鹏跃,宋道.不同给药途径通窍散瘀方中葛根素在大鼠体内药动学研究[J].中国中药杂志,2011,36(17):2347.

DOI: 10.4268/cjmm.20111709

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基金项目: 国家自然科学基金面上项目(81073057); 国家“重大新药创制”科技重大专项(2009ZX09502-008); 教育部博士点基金项目(20090013110007)

中文摘要:目的: 研究通窍散瘀方经不同给药途径给药后葛根素在大鼠体内的药代动力学。方法: 通窍散瘀方经注射给药(*i*)、鼻腔给药(*n*)、灌胃给药(*g*)后于不同时间点取血,以甲醇沉淀血浆蛋白,反相高效液相色谱测定葛根素在大鼠血浆中的浓度,用Kinetic software计算药代动力学参数和生物利用度。结果: 通窍散瘀方静脉注射后,葛根素血中AUC_{0-120 min}为(787.99±70.44)mg·min·L⁻¹,鼻腔给药后AUC_{0-120 min}为(376.56±93.93)mg·min·L⁻¹,而灌胃给药后AUC_{0-120 min}为(491.18±110.64)mg·min·L⁻¹。绝对生物利用度F为47.78%。灌胃给药葛根素绝对生物利用度F为6.23%。结论: 通窍散瘀方经鼻腔给药的生物利用度显著高于灌胃,该结果可以为通窍散瘀方的剂型研究和给药途径选择提供实验依据。

中文关键词: 通窍散瘀方 葛根素 生物利用度 药代动力学

Study on pharmacokinetics of puerarin in rats following different methods of administration of Tongqiao Sanyu prescription

Abstract: Objective: To study pharmacokinetic of puerarin in rats following different methods of administration of Tongqiao Sanyu prescription. Method: Tongqiaosanyu prescription was administered to rats by caudal vein injection, nasal administration and oral administration. Plasma samples were extracted with methanol and the plasma concentration of puerarin was analyzed by RP-HPLC. The pharmacokinetic parameters and bioavailability were calculated with Kinetic software. Result: The main pharmacokinetic parameters were as follows: AUC_{0-120 min} of caudal vein injection was (787.99±70.44) mg·min·L⁻¹; AUC_{0-120 min} of nasal administration was (376.56±93.93) mg·min·L⁻¹; AUC_{0-120 min} of oral administration (The dose was decuple higher than that of caudal vein injection and nasal administration) was (491.18±110.64) mg·min·L⁻¹. The absolute bioavailability of puerarin was 47.78% by nasal administration and 6.23% by oral administration. Conclusion: The bioavailability of nasal administration is higher than oral administration significantly, this result can provide some scientific foundation for the method of administration and the reform of dosage form of Tongqiao Sanyu prescription.

Keywords: Tongqiao Sanyu prescription puerarin bioavailability pharmacokinetics.

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