

论文

反相高效液相色谱法研究家兔体内利福定对地塞米松代谢动力学的影响

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摘要:

关键词: 利福定 地塞米松 药物代谢动力学 反相高效液相色谱法 药物相互作用

EFFECT OF RIFANDIN ON THE PHARMACOKINETICS OF DEXAMETHASONE IN RABBITS DETERMINED BY REVERSED PHASE HPLC

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Abstract:

Rabbits in pairs were randomly divided into two groups, a group given rifandin and a control group. After a single iv injection of dexamethasone sodium phosphate, the concentrations of dexamethasone in rabbit plasma at a series of time were analysed by HPLC on ODS (5μ) column (125×4.5 mm) with CH₃OH—H₂O (70:30) as mobile phase (0.6ml/min) and detected at 254 nm. Linear regression analysis was made by LnC(t)-t, the results indicate that the data fitted a two-compartment open model adequately. The pharmacokinetic parameters of dexamethasone in rabbits were calculated by methods of residuals. T test in pairs between groups of primary parameters, K₁₀, t 1/2β and AUC^{0~∞}/kg showed that rifandin apparently promote metabolic clearance of dexamethasone in plasma.

Keywords: Dexamethasone Pharmacokinetics Reversed phase high performance liquid chromatography Drug interaction Rifandin

收稿日期 1987-06-26 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者:

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