

论文

应用高压液相色谱法研究苯妥英钠的临床药代动力学及生物利用度

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摘要:

应用高压液相色谱法测定六位正常人一次口服苯妥英钠胶囊剂200mg后血浆中药物浓度的动力学变化。根据药一时曲线半对数图确定以一房室开放模型,一级消除动力学求得苯妥英钠的药代动力学各项参数。苯妥英钠片剂和糖衣片剂的相对生物利用度分别为74.71%和89.76%。

关键词: 苯妥英钠 药代动力学 生物利用度 抗癫痫药 高压液相色谱法

STUDIES ON CLINICAL PHARMACOKINETICS AND BIOAVAILABILITY OF SODIUM PHENYTOIN BY HPLC

LOU Ya-qing; GUO Wei-fang; WANG-Wen-ling and FU Yi-ko

Abstract:

The basic clinical pharmacokinetics and oral bioavailability of three different pharmaceutical preparations Of Sodium Phenytoin have been studied in 6 normal volunteers. Plasma concentrations of the drug were determined by using high-pressure liquid chromatography following oral administration of 200mg of Sodium Phenytoin. The mean time and height of the peak plasma level and absorption rate constant of phenytoin were the same in both sugar-coated tablets and ordinary tablets. However, the mean plasma half life of elimination (t 1/2β) of Phenytoin in sugarcoated tablets was longer than that in ordinary tablets. The average oral bioavailability of Phenytoin in ordinary tablets and in sugar-coated tablets was 74.71% (n=6) and 89.76%(n=6), respectively.

Keywords: Pharmacokinetics Bioavailability Antiepileptic drugs High-pressure liquid chromatography Sodium Phenytoin

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