

论文

甘氨双唑钠(CMNa)对肿瘤病人单剂量和多剂量药代动力学的比较

付良^{1*};郭军华;高洪志;孙成春;梁月琴;吴德政

1.军事医学科学院附属医院临床药理科, 北京 100850;2.济南军区总医院药理科, 山东 济南 250031

摘要:

目的 研究甘氨双唑钠(CMNa)的单剂量和多剂量药代动力学, 以对CMNa的蓄积性作一评价。方法 5名肿瘤病人, 连续9次, 静脉滴注剂量为700 mg/m²的CMNa静滴液, 用HPLC-二极管阵列紫外法测定受试病人全血CMNa浓度, 并用开放型二室模型拟合CMNa的血药浓度-时间曲线。结果 CMNa在病人体内分布及消除都很快, 单剂量和多剂量静滴CMNa后血药浓度值和各药代动力学参数值非常相近, 没有明显差别。结论 甘氨双唑钠在肿瘤病人体内不蓄积, 是一个较安全的放疗增敏药物。

关键词: 肿瘤放疗增敏药 甘氨双唑钠 药代动力学 高效液相色谱

COMPARISON OF PHARMACOKINETICS OF SINGLE- AND MULTIPLE- DOSE OF GLYCODIDAZOLUM NATRIUM(CMNa) IN TUMOR PATIENTS

FU Liang-Qing; GUO Jun-Hu; GAO Hong-Zhi; LIANG Yue-Qi; WU De-Zheng; SUN Cheng-Chun

Abstract:

AIM To study the pharmacokinetics of the new tumor radiosensitizer glycodidazolum natrium(CMNa) in tumor patients after single- and multiple-dose, in order to evaluate the accumulation of CMNa in patients. METHODS 5 tumor patients were given an intravenous dose of CMNa 700 mg/m² every other day for 9 times, and blood samples were collected at designed time after the first and the ninth CMNa administration. The blood concentrations of CMNa were determined by HPLC-UV. The blood concentration-time curves of CMNa after single-dose and multiple-dose were fitted to a two-compartment open model. RESULTS CMNa was found to be distributed and eliminated rapidly in patients whether after single- or after multiple-dose. The blood concentration-time curves and pharmacokinetics parameters between single-dose and multiple-dose were similar, and they showed no significant difference. CONCLUSION CMNa will not accumulate in patients' bodies, and it is a safe drug.

Keywords: glycodidazolum natrium(CMNa) pharmacokinetics HPLC tumor radiosensitizer

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作者简介:

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