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蝎毒联合紫杉醇对人胃癌MKN-45裸鼠移植瘤的抑制作用

韦录

530021南宁，广西医科大学第一附属医院胃肠腺体外科

Inhibiting Effect of Scorpid Poison Combined with Paclitaxe on Human Gastric Cancer MKN-45 Transplanted in Nude Mouse

Wei Lu

Department of Gastrointestinal and Glands Surgery,The First Affiliated Hospital of Guangxi Medical University,Guangxi 530021,China

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摘要

目的

研究蝎毒联合紫杉醇对裸鼠体内胃癌的抑制作用。方法建立人胃癌细胞裸鼠皮下移植瘤模型；ELISA法检测血清中VEGF浓度；测量肿瘤的体质量及抑瘤率；流式细胞仪检测细胞凋亡比率及TUNEL法检测肿瘤细胞凋亡指数(AI)；对裸鼠肝、肾、肺组织进行病理学检测。结果蝎毒和紫杉醇对裸鼠体内胃癌都有抑制作用；联合用药组肿瘤体质量、血清VEGF浓度较对照组及单一用药组明显降低（*P*<0.05）；联合用药组肿瘤细胞凋亡率较对照组及单一用药组明显提高（*P*<0．05）；联合用药组细胞凋亡指数明显高于对照组(P<0．05)及两药单独使用组(*P*<0．05)；蝎毒、紫杉醇及两者联合使用对裸鼠肝、肾、肺组织病理学检测均未见明显异常。结论蝎毒联合紫杉醇作用于胃癌的效果优于两药单独使用，本实验的蝎毒、紫杉醇药物浓度对裸鼠肝、肾、肺组织病理学检测均未见明显异常。

关键词： 胃癌 裸鼠 蝎毒 紫杉醇 凋亡

Abstract:

Objective

To study the effects of Scorpid poison in combination with Paclitaxe on inhibiting transplanted gastric cancer in the nude mice.MethodsModel of nude mice subcutaneous transplant tumor of human gastric cancer cells was established. Serum VEGF concentration was determined with ELISA test. The weight of tumor and tumor suppressor rate were recorded. Flow cytometry detected cell apoptosis rate,TUNEL method was used to detect the tumor cell apoptosis index(*AI*).Pathology detection of liver,kidney and lung of nude mice.ResultsThe weight of tumors and serum VEGF concentration in combined treatment group were obviously decreased than the control group and the single treatment group (*P*<0.05).Apoptosis rate in combined treatment group was obviously improved than the control group and the single treatment group (*P*<0.05). The apoptosis index in combined treatment group was higher than the control group and single group (P<0.05).There is no significant abnormal situation about using scorpid poison,paclitaxe,or both the two in pathology detection of liver,kidney and lung of nude mice.

ConclusionThe inhibition effect of the combination of Scorpid poison and Paclitaxe on the gastric carcinoma in nude mice was significantly superior than that of separated use. Pathology tests showed no obvious effects on nude mouse liver,kidney and lung under the concentration of Scorpid poison and paclitaxel used in this study.

Key words: Gastric cancer Nude mice Scorpid poison Paclitaxe Apoptosis

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作者简介: 韦录（1968-），男，硕士，主治医师，主要从事胃肠肿瘤基础与临床相关研究

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