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苦参碱对C57BL/6J小鼠Lewis肺癌VEGF表达的影响

Effect of Matrine on VEGF mRNA and Protein Expression Levels of Lewis Lung Carcinoma in C57BL/6J Mouse

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中文关键词: [苦参碱](#) [Lewis肺癌](#) [血管内皮生长因子](#)

英文关键词: [matrine](#) [Lewis lung carcinoma](#) [vascular endothelial growth factor](#)

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中文摘要:

目的 研究苦参碱对小鼠Lewis肺癌的作用, 并探讨其作用机制。方法 建立小鼠Lewis肺癌模型, 将实验小鼠分为生理盐水组、不同剂量苦参碱组、环磷酸胺组, 计算原发瘤抑制率及微血管密度; 采用RT-PCR和Western blot法检测原发瘤组织VEGF mRNA和蛋白表达。结果 应用苦参碱各剂量组, 小鼠原发瘤抑制率、微血管密度与生理盐水组比较有显著性差异( $P<0.05$ 或 $P<0.01$ ); 与生理盐水组比较, 苦参碱各剂量组VEGF mRNA和蛋白表达水平显著降低( $P<0.01$ )。结论 苦参碱对于小鼠Lewis肺癌原发瘤的生长具有一定的抑制作用, 并能显著抑制瘤组织微血管形成, 可能与其抑制肿瘤VEGF mRNA和蛋白表达有关。

英文摘要:

OBJECTIVE To investigate the effect of matrine on Lewis lung carcinoma in C57BL/6J mouse and to explore its molecular mechanism. METHODS The model of mouse with Lewis lung carcinoma was made, the experimental mice were randomly divided into normal saline group, matrine groups at varied concentrations and cytoxan group. Tumor inhibitory rate and microvessel density (MVD) were measured; the mRNA and protein expression of VEGF were determined with RT-PCR and Western blot. RESULTS There were significant differences from inhibitory rates of primary tumor and MVD between matrine groups and normal saline group ( $P<0.05$  or  $P<0.01$ ); VEGF mRNA and protein expression levels in matrine groups were significantly lower than in normal saline group. CONCLUSION Matrine could inhibit the growth of implanted Lewis lung carcinoma in C57BL/6J mouse at different levels and reduce MVD of Lewis lung carcinoma obviously, which was probably because that matrine reduced the expressions of VEGF mRNA and protein of Lewis lung carcinoma.

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