

论著

## 脂质体包裹尿激酶与D-dimer单抗结合后在血栓模型中靶向溶栓实验

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**摘要** 目的: 观察抗纤维蛋白D-dimer的单克隆抗体与包裹溶栓剂尿激酶(UK)的脂质体(Lip)相联接后,在兔腹主动脉血栓模型上靶向溶栓的效果。方法: 用去污剂控制透析法制备Lip、UK-Lip、Ab-UK-Lip。用FeCl<sub>3</sub>法复制血栓模型,分别从股静脉输入5种不同的药物(①PBS、②大量UK、③Ab/Lip/UK、④Ab/UK-Lip、⑤Ab-UK-Lip),连续观察40 min。结果: 各组血压变化经统计分析得知,Ab-UK-Lip组和UK组效果相似,与其它各组相比较差异均显著(P<0.01),但前者UK用量仅为后者的1/3。结论: 作为UK-Lip的归巢装置,D-dimer单抗在溶栓治疗中有良好的靶向性,Ab-UK-Lip具有良好的应用前景。

**关键词** [D-二聚体](#) [单克隆抗体](#) [血栓形成](#) [血栓溶解疗法](#)

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## Thrombolytic properties of a conjugate of liposomal urokinase with a monoclonal antibody specific for cross-linked fibrin in the model of rabbit artery thrombosis

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### Abstract

<FONT face=Verdana>AIM: To observe the targeting thrombolytic effect of a monoclonal antibody specific for cross-linked fibrin connected with liposomal urokinase (UK) in the model of rabbit artery thrombosis.METHODS: Preparation of thrombolytic solutions: with the method of controllable dialysis eradicator in liposomat,empty liposomes,liposomally entrapped urokinase and liposomally entrapped urokinase linked with D-dimer antibody were made.Experiment in vivo: a rabbit thrombosis model of abdominal aorta was induced by ferric chloride.When the blood pressure fall to the lowest,5 different solutions were separately imported (PBS,maximal-level UK,Ab/Lip/UK,Ab/UK-Lip,Ab-UK-Lip) and observed for 40 min continuously.RESULTS: The varieties of 5 groups blood pressures were analyzed with q-test.Significant differences were observed among Ab-UK-Lip group,maximal-level UK group and others (P<0.01).There were marked differences between Ab-UK-Lip group and others in wet weight of thrombuses (P<0.05).However,the quantity of UK in Ab-UK-Lip group was 1/3 of that in maximal-level of UK group.CONCLUSION: The thrombolytic effect on Ab-UK-Lip group is similar to that on maximal-level of UK group,but the dosage of UK is less,and the side-effect is light.This shows,as a homing-device of liposomal urokinase,the D-dimer antibody has targeting effect and the agent of Ab-UK-Lip will be attached importance by-and-by.</FONT>

**Key words** [D-dimer](#) [Monoclonal antibody](#) [Thrombosis](#) [Thrombolytic therapy](#)

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