



巴戟天寡糖促进鸡胚绒毛尿囊膜血管生成研究

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中文摘要:目的:探讨巴戟天寡糖(MOO)对鸡胚绒毛尿囊膜(CAM)血管生成的影响。方法:运用血清药理学的方法制备含药血清。60只鸡胚随机分为MOO低、中、高剂量组及生理盐水(NS)阴性对照组、空白血清对照组、碱性成纤维细胞生长因子(bFGF)阳性对照组,每组10只。孵育7 d后建立CAM模型,将NS、空白血清、bFGF(2 500 U·mL⁻¹)、MOO 3种剂量含药血清分别加在CAM表面的载体上,继续孵育3 d后制备CAM标本,观察血管生成表现,并进行新生血管计数。结果:MOO各剂量组与bFGF组血管生成表现明显优于NS组与空白血清组。MOO各剂量组新生血管数目较空白血清组均明显增加(P<0.05),但药效均弱于bFGF组(P<0.05)。与MOO低剂量组相比,中、高剂量组新生血管数显著增加(P<0.05),但两者之间无显著性差异。NS组与空白血清组新生血管数目之间无显著性差异。结论:MOO可促进鸡胚绒毛尿囊膜的血管增生,具有一定的促血管新生作用。

中文关键词:巴戟天寡糖 血管生成 鸡胚绒毛尿囊膜

Angiogenesis promoting effect of *Morinda officinalis* oligosaccharides on chicken embryo chorioallantoic membrane

Abstract:Objective: To study the angiogenesis promoting effect of *Morinda officinalis* oligosaccharides(MOO) on chick embryo chorioallantoic membrane(CAM). Method: Rats blood serum containing low, medium and high doses of MOO was prepared using Chinese herbs serum pharmacology method. 60 chick embryos were randomly divided into low, medium and high doses of MOO groups, as well as NS group, blank serum group and bFGF group. Each group included 10 embryos. CAM model was prepared after 7 days incubation. Then NS, blank serum, bFGF(2 500 U·mL⁻¹), three doses of serum containing MOO were added respectively onto the carriers on the CAM. CAM sample was prepared after 3 days incubation. The state of angiogenesis was observed and the number of new blood vessels was counted. Results: Compared with blank serum and NS group, a more specific CAM angiogenesis appearance could be observed in each MOO group and bFGF group. Compared with blank serum group, the number of new blood vessels in each MOO group increased significantly (P<0.05). But the drug had a lower efficacy than bFGF(P<0.05). Compared with low dose group, the number of new blood vessels increased significantly in medium and high doses groups(P<0.05). But there was no significant difference between the latter two groups. The number of new blood vessels showed no significant difference between NS group and blank serum group. Conclusion: MOO can obviously promote angiogenesis of CAM.

keywords: *Morinda officinalis* oligosaccharides angiogenesis chick chorioallantoic membrane

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