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芪黄明目胶囊对糖尿病小鼠视网膜保护作用及对VEGF表达的影响

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中文摘要目的:观察芪黄明目胶囊对II型糖尿病小鼠视网膜的保护作用及对VEGF表达的影响。方法:40只KK/Upj-Ay小鼠随机分为模型组、芪黄明目高、中、低剂量组(8.32,4.16,2.08 g·kg<sup>-1</sup>),另设10只C57BL/6小鼠为对照组。灌胃给药3个月,观察一般情况,测定空腹血糖(FBG)及糖化血红蛋白(HbA1c);光镜及电镜观察视网膜形态学变化,Real-time PCR(qPCR)和Western blot法测定视网膜血管内皮生长因子(VEGF)、血管内皮生长因子受体-1(Flk-1)、血管内皮生长因子受体-2(Flk-1)表达。结果:芪黄明目胶囊能不同程度改善模型小鼠症状,降低FBG和HbA1c;改善视网膜病理损伤,降低视网膜VEGF、Flk-1 mRNA和蛋白的表达。结论:芪黄明目胶囊可抑制糖尿病小鼠视网膜VEGF、Flk-1、Flk-1的表达,干预VEGF-VEGFR信号转导通路,起到保护视网膜的作用。

中文关键词:芪黄明目胶囊 糖尿病视网膜病变 血管内皮生长因子 血管内皮生长因子受体

### Protective effect of Qihuang Mingmu capsule on retina of diabetic mice and its impact on VEGF expression

**Abstract: Objective:** To investigate the protective effect of Qihuang Mingmu capsule (QHMM) on retina of diabetic mice and its impact on VEGF expression. **Method:** Forty KK/Upj-Ay mice were randomly divided into the model group and high, middle and low dose QHMM (8.32, 4.16, 2.08 g·kg<sup>-1</sup>) groups. Additional 10 C57BL/6 mice were selected as the control group. Mice were orally administered for three months. Their general appearance, fasting blood-glucose (FBG) and glycosylated hemoglobin (HbA1c) were observed. Pathological changes of retina were observed by light microscope and electron microscope. The expressions of vascular endothelial growth factor (VEGF), growth factor receptors-1 (Flk-1) and growth factor receptors-2 (Flk-1) were examined by Real-time PCR (qPCR) and Western blot. **Result:** QHMM could ameliorate the symptoms of diabetic mice to varying degrees, decrease FBG and HbA1c, alleviate pathological lesions of retina and decrease the expressions of VEGF, Flk-1, Flk-1 mRNA and protein. **Conclusion:** QHMM has the protective effect on diabetic retinopathy of mice by inhibiting the expressions of VEGF, Flk-1 and Flk-1 and intervening VEGF-VEGFR signal transduction pathway.

**keywords:** Qihuang Mingmu capsule diabetic retinopathy vascular endothelial growth factor vascular endothelial growth factor receptor

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