

# 五谷麒麟膏促进SD大鼠创伤模型愈合的实验研究<sup>\*</sup>

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**摘要:**目的 探讨五谷麒麟膏对SD大鼠皮肤创伤愈合的作用和机理。方法 取60只SD大鼠建立皮肤创伤模型。实验分为模型组、五谷麒麟膏组、京万红膏组,每组各20只。在模型建立后的3、7、10、14天对各组的创面愈合情况进行观测,并比较各组的创面愈合率;在实验第1周、第2周后对创面肉芽组织采取常规HE染色,测量肉芽组织厚度,并检测肉芽组织中表皮生长因子(EGF)、转录生长因子 $\beta 1$ (TGF- $\beta 1$ )、胶原蛋白I(Collagen-I)的表达。结果 五谷麒麟膏组和京万红膏组在第7、10、14天大鼠皮肤创伤的愈合率均优于模型组;五谷麒麟膏组在第7、10、14天大鼠皮肤创伤的愈合率均优于京万红膏组( $P < 0.05$ );在肉芽组织生长方面,建模后第7、10、14天,五谷麒麟膏组、京万红膏组肉芽组织厚度较模型组厚( $P < 0.05$ ),在建模后第14天,五谷麒麟膏组、京万红膏组在肉芽组织厚度方面无明显差异( $P > 0.05$ )。实验第2周测定五谷麒麟膏组肉芽组织中EGF、TGF- $\beta 1$ 、Collagen-I含量明显高于模型组、京万红膏组( $P < 0.05$ )。结论 五谷麒麟膏有明显促进创面愈合的作用,其疗效机制可能是通过提高组织中EGF、TGF- $\beta 1$ 、Collagen-I含量,促进胶原蛋白的合成,从而发挥促进创面愈合效应。

**关键词:** 五谷麒麟膏; 创伤模型; 创面愈合

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## The Effect of Wuguqilingao on Improving Wound Healing in SD Rats

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**Abstract:** **Objective** To study the effect and mechanism of Wuguqilingao as a treatment of skin wounded model. **Methods** Sixty SD rats with weight of 250g ~ 300g, were randomly divided into three groups: model group, Wuguqilingao group and Jingwanhong group. Wounded skin was made on the backside of rats. And at the 3rd, 7th, 10th and 14th day after operation, the wounded area was made and the degree of granulation tissue was counted. EGF, TGF- $\beta 1$ , Collagen-I in the blood was also detected. **Results** It was demonstrated that on day 7th, 10th and 14th, the percent wound contraction of Wuguqilingao group and Jingwanhong group was higher than that of Model group ( $P < 0.05$ ). On day 7th, 10th and 14th, the granulation tissue with a high degree of Wuguqilingao group and Jingwanhong group than that of control Model group ( $P < 0.05$ ), however, the degree of granulation tissue in both Wuguqilingao group and Jingwanhong group was no significant difference ( $p > 0.05$ ). At the 7th and 14th day after operation, the expression of EGF, TGF- $\beta 1$  and Collagen-I in granulation tissue of Wuguqilingao group was absolutely higher than that of Model group and Jingwanhong group ( $P < 0.05$ ). **Conclusion** Wuguqilingao can promote the surface wound recover, which has some relationship with the appropriate increase of the expression of EGF, TGF- $\beta 1$ , Collagen-I.

**Key words** Wuguqilingao; Wounded model; TNF- $\alpha$ ; Wound Healing

五谷麒麟膏是在中医学“煨脓长肉”经典理论的指导下,结合我们临床经验所研制出的外用油

膏制剂,该外用油膏具有很好的止血、止痛、促进外科疮疡愈合的功效,为探求五谷麒麟膏对疮

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