

# 通腑活血方对大鼠术后肠粘连的影响<sup>\*</sup>

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**摘 要:** **目的** 通过制作术后肠粘连 SD 大鼠模型, 证实通腑活血方能有效防治术后肠粘连的发生, 并初步探讨其作用机制。 **方法** SD 大鼠 40 只, 随机分为 4 组, 即正常组 ( $n=10$ )、模型组 ( $n=10$ )、大黄廑虫丸组 ( $n=10$ ) 和通腑活血方组 ( $n=10$ ), 术后第 7 天观察各组大鼠肠粘连等级, 并采用 ELISA 法检测各组大鼠 IL-6、TNF- $\alpha$  血清浓度, 同时在 X 线和 B 超下观察其肠腔扩张及血运情况。 **结果** 大黄廑虫丸组和通腑活血方组肠粘连等级均低于模型组 ( $P<0.05$ ), 且术后第 7 天血清 IL-6 和 TNF- $\alpha$  水平均低于模型组 ( $P<0.01$ ); X 线和 B 超观察发现: 通腑活血方组较模型组肠管供血较好, 肠管蠕动更频繁且肠腔积气明显减少。 **结论** 通腑活血方能够降低血清中 IL-6 和 TNF- $\alpha$  水平、促进肠道蠕动、减轻肠管扩张, 从而防治大鼠术后肠粘连的发生。

**关键词:** 通腑活血方; 术后肠粘连; 白介素-6; 肿瘤坏死因子- $\alpha$

**中图分类号:** R 285.5 **文献标识码:** A **文章编号:** 1672-0571(2017)04-0100-05

**DOI:** 10.13424/j.cnki.mtcm.2017.04.036

## Influence of Tongfu Huoxue Prescription over Postoperative Intestinal Adhesion

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**Abstract Objective:** To prove that Tongfu Huoxue Prescription can effectively prevent postoperative intestinal adhesion and primarily explore its mechanisms by preparing the SD rats model with postoperative intestinal adhesion. **Method:** Totally 40 rats were randomly divided into 4 groups; normal, model, Dahuangchong Pill and Tongfu Huoxue Prescription group with equal numbers. On the 7th day after operation, the adhesive degrees in all groups were defined, the serum IL-6 and TNF- $\alpha$  concentrations were checked by ELISA and the conditions of intestinal distension as well as blood circulation were observed under X-ray and ultrasound. **Results:** The adhesive degrees in Dahuangchong Pill and Tongfu Huoxue Prescription group were lower than in the model group ( $P<0.05$ ) and the IL-6 and TNF- $\alpha$  levels in these two groups were lower than the model group on the 7th day after operation ( $P<0.01$ ). X-ray and ultrasound results: The blood circulation of Tongfu Huoxue Prescription group was better, the bowel movements were more frequent and air accumulating in the cavity significantly reduced, compared with the model group. **Conclusion:** Tongfu Huoxue Prescription is able to decrease the IL-6 and TNF- $\alpha$  levels, promote bowel movement and lighten intestinal distention to prevent the occurrence of rats' postoperative intestinal adhesion.

**Key words** Tongfu Huoxue Prescription, postoperative intestinal adhesion, IL-6, TNF- $\alpha$

\* 基金项目: 陕西省教育厅资助项目(2010JK514)

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