

[1]李晓萍,张志坚,屈纪富.姜黄素对大鼠重症胰腺炎的干预效应研究[J].第三军医大学学报,2013,35(08):759-763.

Li Xiaoping,Zhang Zhijian,Qu Jifu.Effects of curcumin intervention on chemokine ENA-78 expression in rat severe acute pancreatitis[J].J Third Mil Med Univ,2013,35(08):759-763.

点击复

制

## 姜黄素对大鼠重症胰腺炎的干预效应研究(PDF)分享到.

《第三军医大学学报》[ISSN:1000-5404/CN:51-1095/R] 卷: 35 期数: 2013年第08期 页码: 759-763 栏目: 论著 出版日期: 2013-04-30

Title: Effects of curcumin intervention on chemokine ENA-78 expression in rat severe acute pancreatitis

作者: 李晓萍; 张志坚; 屈纪富  
第三军医大学西南医院急救部; 巴南区人民医院ICU

Author(s): Li Xiaoping; Zhang Zhijian; Qu Jifu  
Department of Emergency, Southwest Hospital, Third Military Medical University, Chongqing, 400038; Intensive Care Unit, Banan District People's Hospital, Chongqing, 401320, China

关键词: 重症急性胰腺炎; 姜黄素; 趋化因子ENA-78; 基因表达

Keywords: severe acute pancreatitis; curcumin; epithelial neutrophil activating peptide 78; gene expression

分类号: R282.71;R576;R965

文献标志码: A

摘要: 目的 探讨趋化因子ENA-78(epithelial neutrophil activating peptide 78,ENA-78)在重症急性胰腺炎(acute pancreatitis, SAP)发病过程中的作用及姜黄素(curcumin, CUR)的干预效应。方法 54只SD大鼠按完全随机法分为SAP组、姜黄素治疗(SAP+CUR)组和对照组,用4%牛磺胆酸钠逆行胆胰管注射建立大鼠模型,SAP+CUR组在建立模型前2 h腹腔内注射姜黄素溶液(200 mg/kg),余组注射同等剂量的DMSO溶液。用ELISA法测定3组大鼠不同时点血清中ENA-78水平的变化;Western blot和免疫组化法检测胰腺组织不同时点ENA-78蛋白的表达水平;病理组织切片检查各时点胰腺的病理变化。结果 SAP组血清中ENA-78水平随着时间的延长逐渐增强,3 h后各时点血清ENA-78水平均高于对照组及SAP+CUR组( $P<0.01$ );SAP组及SAP+CUR组术后胰腺组织ENA-78蛋白表达随时间延长逐渐增加,术后各时间点表达均显著高于对照组,但同时时间点比较SAP+CUR组表达明显低于SAP组( $P<0.01$ );病理组织切片检查显示SAP+CUR组各时点与SAP组相比较,胰腺病理损伤显著减轻。结论 姜黄素能有效干预SAP,其机制可能与抑制趋化因子ENA-78的表达有关。

Abstract: Objective To investigate the role of epithelial neutrophil activating peptide 78 (ENA-78) in the pathogenesis of severe acute pancreatitis (SAP) and effects of curcumin intervention on ENA-78 expression in SAP. Methods Fifty-four SD rats were randomized into three groups: a SAP group, a curcumin treatment group (SAP+CUR) and a control group. SAP model was induced by retrograde infusion of 4% sodium taurocholate into the bili-pancreatic duct in rats. Rats in the SAP+CUR group were injected with curcumin (200 mg/kg)

导航/NAVIGATE

[本期目录/Table of Contents](#)

[下一篇/Next Article](#)

[上一篇/Previous Article](#)

工具/TOOLS

[引用本文的文章/References](#)

[下载 PDF/Download PDF\(1389KB\)](#)

[立即打印本文/Print Now](#)

[查看/发表评论/Comments](#)

导出

统计/STATISTICS

摘要浏览/Viewed 388

全文下载/Downloads 183

评论/Comments

[RSS](#) [XML](#)

through abdominal cavity before operation while those in the control and SAP groups were injected with DMSO. ENA-78 in the serum was detected by ELISA at various time points. The expression of ENA-78 in pancreatic tissues was detected by Western blotting and immunohistochemistry. The histopathological changes were observed at the same time.

**Results** Serum level of ENA-78 in 3 h after operation in the SAP group was significantly higher than that in the control group and SAP+CUR group ( $P<0.01$ ). Compared with the control group, the expression of ENA-78 in the pancreatic tissues of rats in the SAP group and SAP+CUR group increased significantly in a time-dependent manner. Compared with the SAP group, the expression of ENA-78 in the pancreatic tissues of rats in the SAP+CUR group was decreased ( $P<0.01$ ). Pathological injury of pancreatic tissues was more obvious in the SAP group than in the SAP+CUR group.

**Conclusion** Curcumin efficiently interferes SAP and may be related to inhibition of ENA-78 expression.

---

#### 参考文献/REFERENCES:

李晓萍, 张志坚, 屈纪富. 姜黄素对大鼠重症胰腺炎的干预效应研究[J]. 第三军医大学学报, 2013, 35(8): 759-763.

#### 相似文献/REFERENCES:

- [1] 兑丹华, 高占峰, 赵鹏, 等. 清胰 II 号和粉防己碱对实验性重症急性胰腺炎的治疗作用[J]. 第三军医大学学报, 2005, 27(24): 2418.
- [2] 杨家荣, 陈磊, 杨慧, 等. 姜黄素对膀胱癌细胞增殖及凋亡的影响[J]. 第三军医大学学报, 2007, 29(24): 2350.  
YANG Jia-rong, CHEN Lei, YANG Hui, et al. Curcumin inhibits proliferation of cell strain of bladder carcinoma and induces its apoptosis[J]. J Third Mil Med Univ, 2007, 29(08): 2350.
- [3] 钟敦璟, 郭红, 郝嘉, 等. STAT3 对大鼠重症急性胰腺炎血清体外作用 AT- II SP-C 的影响[J]. 第三军医大学学报, 2008, 30(19): 1807.  
ZHONG Dun-jing, GUO Hong, HAO Jia, et al. STAT3 participates in the injury of alveolar type II epithelial cells during severe acute pancreatitis: an in vitro study[J]. J Third Mil Med Univ, 2008, 30(08): 1807.
- [4] 吴晓健, 吴凯南. 姜黄素对人乳腺癌 MCF-7 细胞抗增殖作用的研究[J]. 第三军医大学学报, 2006, 28(18): 1870.
- [5] 邢雅翕. 重症胰腺炎治疗体会[J]. 第三军医大学学报, 2006, 28(10): 1131.
- [6] 张莹, 石承先, 别平, 等. 重症急性胰腺炎大鼠肺脏 iNOS mRNA 表达及丹参的干预效应[J]. 第三军医大学学报, 2005, 27(15): 1569.
- [7] 毛蜀, 何密斯, 刘桂元, 等. 姜黄素对髓母细胞瘤 PI3K/Akt 信号通路的作用[J]. 第三军医大学学报, 2013, 35(06): 518.  
Mao Shu, He Misi, Liu Guiyuan, et al. Curcumin suppresses proliferation and induces apoptosis in human medulloblastoma cells via PI3k/Akt signaling pathway[J]. J Third Mil Med Univ, 2013, 35(08): 518.
- [8] 朱方强, 江军, 黄宏. 姜黄素抑制内毒素所致小鼠急性肾功能损害的作用[J]. 第三军医大学学报, 2005, 27(11): 1074.
- [9] 郑奇君, 李平华. 姜黄素眼膏对兔小梁切除术后滤过道瘢痕化的抑制作用[J]. 第三军医大学学报, 2010, 32(11): 1203.  
Zheng Qijun, Li Pinghua. Effect of curcumin eye ointment on scar formation in filtering blebs after trabeculectomy in rabbits[J]. J Third Mil Med Univ, 2010, 32(08): 1203.
- [10] 刘颖, 林中, 胡琼花, 等. 伴有胃肠动力障碍的重症急性胰腺炎大鼠结肠肠肌间神经丛一氧化氮合成酶神经元的变化[J]. 第三军医大学学报, 2010, 32(03): 274.  
Liu Ying, Lin Zhong, Hu Qionghua, et al. Change of nitric oxide synthase neurons in colonic myenteric plexus of rats with severe acute pancreatitis complicated by gastrointestinal dysmotility[J]. J Third Mil Med Univ, 2010, 32(08): 274.