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尿液NGAL,KIM-1,IL-18在商陆所致的大鼠肾损伤中的变化特征及其联合检测的意义

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作者中 文名	作者英文 名	单位中文名	单位英文名	E-Mail
李一飞	LI Yi-fei	上海中医药大学 药物安全评价研 究中心,上海 201203	Shanghai University of Traditional Chinese Medicine, Shanghai 201203, China	
徐婷婷	XU Ting- ting	上海中医药大学 药物安全评价研 究中心,上海 201203	Shanghai University of Traditional Chinese Medicine, Shanghai 201203, China	
姚广涛	YAO Guang-tao	上海中医药大学 药物安全评价研 究中心,上海 201203	Shanghai University of Traditional Chinese Medicine, Shanghai 201203, China	ygt1969@yahoo.com.cn
金若敏	JIN Ruo- min	上海中医药大学 药物安全评价研 究中心,上海 201203	Shanghai University of Traditional Chinese Medicine, Shanghai 201203, China	

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中文摘要:目的: 探讨肾损伤标志物中性粒细胞明胶酶相关脂质运载蛋白(NGAL)、肾损伤因子-1(KIM-1)、白介素-18(IL-18)在商 陆所致的大鼠肾损伤中的变化特征及其联合检测的意义。方法:Wistar大鼠随机分为商陆水煎液高、低剂量(生药40,20 g  $\cdot$  kg $^{-1}$   $\cdot$  d ")组和对照组连续灌胃35 d. 于第7,14,21,28,35,42 d采集血尿样,并分批解剖处理。生化分析仅检测血清总蛋白(TP)、白蛋白(AL B)、尿素氮(BUN)、血肌酐(CR),尿液uTP,uALB含量,酶联免疫吸附法(ELISA)检测尿液NGAL,KIM-I,IL-18浓度。光镜/电镜下观察 

中文关键词:NGAL KIM-1 IL-18 联合检测 商陆 ROC

## Characteristics of changes in urinary NGAL, KIM-1 and IL-18 in Phytolaccae Radix-induced renal injury in rats and significance of combined detection

Abstract: Objective: To explore the characteristics of changes in neutrophil gelatinase-associated lipocalcin (NGAL), kidney injury molecule-1 (KIM-1) and interleukin-18 (IL-18) in Phytolaccae Radix-induced kidney injury in rats and the significance of the combined molecule-1 (KIM-1) and interleukin-18 (IL-18) in Phytolaceae Radis-induced kidney injury in rats and the significance of the combined detection. Method: Wistar rats were divided into three groupshigh and low dose (crude drug 40, 20 g \* kg \* d \* d \*) Phytolaceae Radis decection groups and method group, and orally administrated with stilled water or equal volume of Phytolaceae Radis decection for 35 consecutive days. Their blood and urine samples were collected on day 7, 14, 21, 28, 35, 42. The anatomical analysis was conducted for each group. The contents of serum total protein (TP), albumin (ALB), blood urea nitrogen (BUN), creationine (CR) and urinary TP and ALB were detected by means of biochemical analyzer. The concentrations of urinary NGAL, KIM-1 and IL-18 were measured by enzyme-limary area of urinary and the serum assay (ELISA). The morphological changes of renal pathology were observed by light or electron microscopy. The curve areas of various serum or urine indexes and the combined detection were compared by receiver operating characteristic curve (ROC curve). Result: Rats were given Phytolaceae Radis decortion at the doses of 40, 20 g crude diriging daily for 35 consecutive days to induce kidney injury characterized by the degeneration of renal tubular epithelial cell and protein cast. The injury was partially reversible during the recovery period. Compared with the control group, the content of serum BUN, CR and urinary TP in cast dose group news the service of the content of urinary ALB obviously increased till the end of administration. The contents of urinary Roll. RMH-1 and IL-18 kg and IRM-1 could forecest and indicate the occurrence and development of renal linguity to some degree, and show higher sensitivity and site specificity. The coulbine detection could further improve the test efficiency.

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