

论著

载脂蛋白M在急性肾衰大鼠肾组织中的表达及NF- κ B抑制剂的干预作用

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摘要 目的: 观察肾组织载脂蛋白M (apoM) 在缺血再灌注性急性肾衰 (ARF) 时的表达变化以及核因子- κ B (NF- κ B) 特异性抑制剂-吡咯烷二硫代氨基甲酸盐(PDTC)对apoM表达的影响, 探讨apoM是否参与ARF的发病机制。方法: 建立大鼠缺血再灌注性急性肾衰模型, 分为假手术组、ARF组和PDTC组。采用Western blotting, 检测不同时点肾皮质apoM和核内NF- κ B p65亚基的表达。结果: ARF组各时点apoM水平较假手术组明显增高 ($P < 0.01$), 且呈双峰型变化, 于再灌注6 h达第1次高峰, 之后表达逐渐下降, 从24 h到48 h表达再次上调; PDTC组apoM的变化趋势与ARF组相同, 但各时点apoM水平较ARF组显著降低 ($P < 0.01$)。ApoM与核内NF- κ B p65亚基的表达呈明显正相关。结论: apoM可能通过NF- κ B的介导参与缺血再灌注性ARF的发病。

关键词 [肾功能衰竭,急性;](#) [再灌注;](#) [载脂蛋白M类;](#) [NF- \$\kappa\$ B](#)

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Effect of NF- κ B inhibitor on renal expression of apolipoprotein M in rats with acute renal failure

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Abstract

AIM: To investigate the expression pattern of apolipoprotein M (apoM) protein in renal cortex of acute renal failure (ARF) rats with reperfusion. METHODS: Seventy-five male rats were randomly divided into sham operation group (n=25), ARF group (n=25) and pyrrolidine dithiocarbamate (PDTC) group (n=25), five subgroups at time points of 3 h, 6 h, 12 h, 24 h and 48 h after reperfusion were set up in each group. The expressions of apoM in cytoplasm and NF- κ B p65 in nucleus of renal cortex were detected at the indicated time points. RESULTS: The expression of apoM in ARF group was obviously higher than that in sham operation group ($P < 0.01$), and two peaks were detected, the first peak was at 6 h after reperfusion, while the second one was from 24 h to 48 h. The tendency of apoM expression in PDTC group was similar to that in ARF group, while the expression in every subgroup was prevalently lower than that in ARF group ($P < 0.01$). Otherwise, a significant correlation ($r = 0.852$, $P < 0.01$) was found between the expression of apoM and NF- κ B p65. CONCLUSION: The results indicate that apoM feasibly take part in the pathogenesis of ARF through the inflammatory reaction mediated by NF- κ B.

Key words [Renal failure](#) [acute](#) [Reperfusion](#) [Apolipoproteins M](#) [NF-kappa B](#)

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