

论著

PPAR γ 激动剂罗格列酮对心肌缺血再灌注损伤的影响

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收稿日期 2003-10-29 修回日期 2004-11-9 网络版发布日期 2009-9-23 接受日期 2004-11-9

摘要 目的: 探讨过氧化物酶体增殖物激活受体 γ (PPAR γ) 激动剂罗格列酮对心肌缺血再灌注损伤的影响及机制。方法: 42只SD大鼠随机分为假手术组(14只)、I/R组(14只)和I/R+Ros组(14只)。应用结扎左冠状动脉60min, 再灌注60min的方法制作心肌缺血再灌注模型; 用NBT染色法判断心肌梗死面积; 用放射免疫法测定血浆及心肌血管紧张素II和醛固酮等指标。结果: 与I/R组相比, I/R+Ros组降低心肌缺血再灌注后心肌梗死面积23.9% (P<0.05); 显著减轻心肌肿胀度 (P<0.05); 明显抑制心肌血管紧张素II、醛固酮及血浆血管紧张素II水平 (P<0.05)。结论: PPAR γ 激动剂罗格列酮对心肌缺血再灌注损伤有保护作用, 其机制可能与抑制心肌局部肾素-血管紧张素系统有关。

关键词 [过氧化物酶体激活剂](#); [罗格列酮](#); [心肌再灌注损伤](#); [肾素-血管紧张素系统](#)

分类号 [R541.4](#)

Effects of peroxisome proliferator-activated receptor γ activator rosiglitazone on myocardial ischemic-reperfusion injury in rats

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Abstract

AIM: To investigate the effect of peroxisome proliferator-activated receptor γ (PPAR γ) activator rosiglitazone on myocardial ischemic-reperfusion injury in rats. METHODS: Forty-two SD rats were randomly divided into three groups: sham group (n=14), I/R group (n=14) and I/R+rosiglitazone group (n=14). Myocardial infarct size was assessed by NBT staining. Plasma and myocardial angiotensin and aldosterone as well as plasma renin activity were detected by radioimmunoassay. RESULTS: Compared with I/R group, myocardial infarct size was reduced by 23.9% (P<0.05), myocardial edema was obviously lessened (P<0.05); plasma and myocardial angiotensin II as well as myocardial aldosterone were significantly inhibited in I/R+rosiglitazone group (P<0.05). CONCLUSION: PPAR γ activator rosiglitazone provides a protective effect against myocardial ischemic-reperfusion injury in rats partly by inhibiting myocardial renin-angiotensin-aldosterone system.

Key words [Peroxisome proliferators \$\gamma\$](#) ; [Rosiglitazone](#); [Myocardial reperfusion injury](#); [Renin-angiotensin system](#)

DOI: 1000-4718

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