

- The Ministry of Science and Technology of the People's Republic [5] of China. Guidance Suggestions for the Care and Use of Laboratory Animals. 2006-09-30. 中华人民共和国科学技术部. 关于善待实验动物的指导性意见. 2006-09-30.
- Hammon JW Jr. Myocardial protection in the immature heart. Ann [6] Thorac Surg. 1995;60(3):839-842. Benardeau A, Hatem SN, Rucker-Martin C, et al. Primary culture
- [7] of human atrial myocytes is associated with the appearance of structural and functional characteristics of immature myocardium.
- J Mol Cell Cardiol. 1997;29(5):1307-1320.

 Darling CE, Solari PB, Smith CS, et al. 'Postconditioning' the [8] human heart: Multiple balloon inflations during primary angioplasty may confer cardioprotection. 2007.
- [9] Sun ZD, Yang CY. Lingnan Xinxueguanbing Zazhi. 2001;7(3): 205-207. 孙忠东, 杨辰垣. 双下肢缺血预处理对未成熟心肌保护作用的研究 [J]. 岭南心血管病杂志,2001,7(3):205-207.
- [10] Santiago-Delpin EA. Lower limb ischemia reperfusion injury as a cause of systemic inflammatory response. World J Surg. 2004; 28(4):431, 431-432.
- Kur F, Beiras-Fernandez A, Meiser B, et al. Clinical heart transplantation with extended preservation time (>5 hours): experience with University of Wisconsin solution. Transplant Proc. 2009;41(6):2247-2249.
- Mesaros S, Grunfeld S, Mesarosova A, et al. New strategy for prolonging the preservation time of hearts for transplantation Physiol Res. 1997;46(4):251-255.
 [13] Li CM, Zhang XH, Ma XJ, et al. Limb ischemic postconditioning
- protects myocardium from ischemia-reperfusion injury. Scand Cardiovasc J. 2006;40(5):312-317.
- Jahania MS, Sanchez JA, Narayan P, et al. Heart preservation for transplantation: principles and strategies. Ann Thorac Surg. 1999; 68(5):1983-1987.
- Zang WF. Jixu Yixue Jiaoyu. 2007;21(11): 10-11. 臧旺福. 心脏移植新进展[J]. 继续医学教育,2007, 21(11): 10-11. Szokoly M, Nemeth N, Hamar J, et al. Early systemic effects of [15]
- hind limb ischemia-reperfusion on hemodynamics and acid-base
- balance in the rat. Microsurgery. 2006;26(8):585-589.

 [17] Ozturk K, Ozyurt H, Somay A, et al. The effects of nitric oxide donor molsidomine on skeletal muscle damage in a rat hind limb model of ischemia-reperfusion. Eur Surg Res. 2009;42(2):71-77.
- Heidbreder M, Naumann A, Tempel K, et al. Remote vs. ischaemic preconditioning: the differential role of mitogen-activated protein
- kinase pathways. Cardiovasc Res. 2008;78(1):108-115. Kang J, Albadawi H, Patel V I, et al. Apolipoprotein E-/- mice have delayed skeletal muscle healing after hind limb ischemia-reperfusion. J Vasc Surg. 2008;48(3):701-708.

- [20] Dearani JA, Razzouk AJ, Gundry SR, et al. Pediatric cardiac retransplantation: intermediate-term results. Ann Thorac Surg. 2001;71(1):66-70.
- Venugopal V, Hausenloy DJ, Ludman A, et al. Remote ischaemic preconditioning reduces myocardial injury in patients undergoing cardiac surgery with cold-blood cardioplegia: a randomised controlled trial. Heart. 2009;95(19):1567-1571.

 Hausenloy DJ, Mwamure PK, Venugopal V, et al. Effect of remote
- ischaemic preconditioning on myocardial injury in patients undergoing coronary artery bypass graft surgery: a randomised controlled trial. Lancet. 2007;370(9587):575-579.
- Iliodromitis EK, Kyrzopoulos S, Paraskevaidis IA, et al. Increased C reactive protein and cardiac enzyme levels after coronary stent implantation. Is there protection by remote ischaemic preconditioning? Heart. 2006;92(12):1821-1826.

来自本文课题的更多信息--

基金资助: 广西科学基金项目(桂科基 0236068)"供 体心脏不停跳和停跳保存方法对心肌保护的对比研究"。

利益冲突: 课题未涉及任何厂家及相关雇主或其他经 济组织直接或间接的经济或利益的赞助。

课题的创新点: 有学者对肠系膜及左肾动脉行缺血预 处理,观察到对心肌缺血再灌注有保护作用,从而提出远 隔器官预处理概念,即在心脏以外的器官施行缺血预处理, 同样能达到缺血预适应效果。肢体缺血预处理即属于远隔 器官预处理。观察其对心肌的保护作用既符合伦理,且方 法简单,容易实施。

提供临床借鉴的价值:实验结果提示,肢体缺血预处 理对未成熟心脏有明显的保护作用, 在未成熟供体心脏离 体前进行缺血预处理可以提高供体心脏的保存效果,降低 心肌水肿。离体前肌钙蛋白 | 含量无变化说明肢体缺血预 处理对心肌没有损伤, 是一种安全的保护措施。



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