

[1]吴翔,李英莎,赵志钢,等.血液灌注对代谢综合征患者血脂、血压的影响及其机制研究[J].第三军医大学学报,2014,36(16):1709-1712.

Wu Xiang,Li Yingsha,Zhao Zhigang,et al.Effects of hemoperfusion on lipid profiles and blood pressure in patients with metabolic syndrome[J].J Third Mil Med Univ,2014,36(16):1709-1712.

点击复制

血液灌注对代谢综合征患者血脂、血压的影响及其

《第三军医大学学报》[ISSN:1000-5404/CN:51-1095/R] 卷: 36 期数: 2014年第16期 页码: 1709-1712 栏目: 论著 出版日期: 2014-08-30

Title: Effects of hemoperfusion on lipid profiles and blood pressure in patients with metabolic syndrome

作者: 吴翔; 李英莎; 赵志钢; 何洪波; 杨丽琴; 倪银星; 钟健; 闫振成; 祝之明
第三军医大学大坪医院野战外科研究所高血压内分泌科, 全军高血压代谢病中心, 重庆市高血压研究所

Author(s): Wu Xiang; Li Yingsha; Zhao Zhigang; He Hongbo; Yang Liqin; Ni Yinxing; Zhong Jian; Yan Zhencheng; Zhu Zhiming

Department of Hypertension and Endocrinology, Center for Hypertension and Metabolic Diseases, Chongqing Institute of Hypertension, Institute of Surgery Research, Daping Hospital, Third Military Medical University, Chongqing, 400042, China

关键词: 血液灌注; 代谢综合征; 血脂; 血压

Keywords: hemoperfusion; metabolic syndrome; blood lipids; blood pressure

分类号: R446.1; R457; R589

文献标志码: A

摘要: 目的 探索代谢综合征 (metabolic syndrome, MS) 患者行血液灌注 (hemoperfusion, HP) 后血脂、血压的变化特征, 阐明HP改善血压的可能机制。方法 收集符合中华医学会糖尿病分会 (CDS) MS诊断标准的患者, 术前行血常规、尿常规、血电解质、血糖、血脂、肾功、肝功、输血前4项传染病指标等检查合格后行HP, 灌注前检测血管紧张素 I (angiotensin I, A I)、血管紧张素 II (angiotensin II, A II)、醛固酮 (Aldosterone, Ald)、高敏C-反应蛋白 (high-sensitivity C-reactive protein, hs-CRP)、单核细胞趋化蛋白-1 (monocyte chemotactic protein 1, MCP-1)、血清抵抗素。术后第1天及第4、8、12周随访患者血压、血脂变化, 并检测A I、A II、Ald、hs-CRP、MCP-1、血清抵抗素。采用SPSS 19.0统计软件, 对结果进行单样本 *t* 检验、Pearson相关分析等。结果 患者术后8周内总胆固醇 (total cholesterol, TC)、甘油三酯 (triglyceride, TG) 均较术前明显下降, 差异有统计学意义 ($P < 0.05$)。术后12周内收缩压 (SBP) 及血清抵抗素水平较术前下降, 差异有统计学意义 [SBP: (143 ± 15) mmHg vs (137 ± 17) mmHg, $P < 0.05$; 抵抗素: (2.06 ± 2.02) ng/mL vs (0.65 ± 0.42) ng/mL, $P < 0.05$]。双变量相关分析显示SBP分别与

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 \(656KB\)](#)

[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

全文下载/Downloads 74

评论/Comments 46



更新日期/Last Update: 2014-08-28

TC、抵抗素呈正相关 ($r=0.40$, $P<0.01$; $r=0.29$, $P=0.003$)。结论 HP可有效改善代谢综合征患者血脂水平, 可并降低血压, 这可能与HP清除血清抵抗素、血脂有关。

Abstract: **Objective** To study the effects of hemoperfusion (HP) on lipid profiles and blood pressure in patients with metabolic syndrome and investigate the underlying mechanisms. **Methods** Blood routine test, blood biochemical indexes, urine routine test, renal function, liver function and 4 contagious indexes before blood transfusion were examined before HP. A total of 26 patients with metabolic syndrome were qualified for HP. All patients were followed-up, with blood pressure monitored. The levels of blood lipids, angiotensin I (A I), angiotensin II (A II), aldosterone (Ald), hypersensitive C-reactive protein (hs-CRP), monocyte chemotactic protein 1 (MCP-1) and resistin were measured at 4, 8 and 12 weeks after HP. SPSS19 statistical software, including the single sample *t* test, Pearson correlation analysis and other methods, was used to compare the results. **Results** The total cholesterol (TC) and triglyceride (TG) levels were significantly reduced after HP within 8 weeks as compared to the baseline values ($P<0.05$). The systolic pressure (SBP) and serum resistin levels were decreased significantly within 12 weeks as compared to those before the treatment (SBP: 143 ± 15 vs 137 ± 17 mmHg, $P<0.05$; resistin: 2.06 ± 2.02 vs 0.65 ± 0.42 ng/mL, $P<0.05$). The bivariate correlation analysis showed that the SBP was positively correlated with TC and resistin levels ($r=0.40$, $P=0.00$; $r=0.29$, $P=0.003$). **Conclusion** HP can effectively reduce blood lipid levels and lower blood pressure of patients with metabolic syndrome, which may be related to removal of serum resistin and blood lipids by HP.

参考文献/References:

吴翔, 李英莎, 赵志钢, 等. 血液灌流对代谢综合征患者血脂、血压的影响及其机制研究[J]. 第三军医大学学报, 2014, 36(16): 1709-1712.

相似文献/References:

- [1] 张建荣, 李小萍, 张艳霞. 血液灌流改善继发性甲旁亢患者微炎症状态的临床研究[J]. 第三军医大学学报, 2012, 34(17): 1786. Zhang Jianrong, Li Xiaoping, Zhang Yanxia. Hemoperfusion attenuates microinflammation state of secondary hyperparathyroidism: report of 60 cases[J]. J Third Mil Med Univ, 2012, 34(16): 1786.
- [2] 徐兴森, 闫振成, 刘浩宇, 等. 阿托伐他汀对代谢综合征腹内脂肪及其肾损害的影响[J]. 第三军医大学学报, 2008, 30(15): 1478. XU Xing-sen, YAN Zhen-cheng, LIU Hao-yu, et al. Effect of atorvastatin on intraabdominal fat and microalbuminuria in patients with metabolic syndrome[J]. J Third Mil Med Univ, 2008, 30(16): 1478.
- [3] 张少敏, 夏志琦, 朱蕾, 等. 冠心病患者合并代谢综合征危险因素与冠状动脉病变的关系[J]. 第三军医大学学报, 2008, 30(15): 1484. ZHANG Shao-min, XIA Zhi-qi, ZHU Lei, et al. Relationship between multiple risk factors and coronary artery lesions in the patients with coronary heart disease and metabolic syndrome[J]. J Third Mil Med Univ, 2008, 30(16): 1484.
- [4] 蒋敬荟, 瞿平, 魏小平, 等. 儿童代谢综合征患儿血清中炎症因子hs-CRP、IL-6、TNF- α 的变化及意义[J]. 第三军医大学学报, 2011, 33(14): 1530. Jiang Jinghui, Qu Ping, Wei Xiaoping, et al. Serum hs-CRP, IL-6 and TNF- α levels and their contributions to metabolic syndrome in children[J]. J Third Mil Med Univ, 2011, 33(16): 1530.
- [5] 祝之明. 代谢综合征的临床特征与发病机制[J]. 第三军医大学学报, 2009, 31(01): 17.
- [6] 杨晓兰, 马育, 黄维, 等. 琼脂包嵌凹凸棒微囊体外全血净化作用研究[J]. 第三军医大学学报, 2005, 27(11): 1169.
- [7] 马炬, 易斌, 袁建国. 重症有机磷中毒进行血液灌流的临床观察[J]. 第三军医大学学报, 2005, 27(04): 371.
- [8] 李保华, 胡长江, 连军松, 等. 血液灌流联合血液透析治疗药物性肝损害的临床疗效观察[J]. 第三军医大学学报, 2013, 35(05): 472. Li Baohua, Hu Changjiang, Lian Junsong, et al. Therapeutic efficiency of hemoperfusion combined with hemodialysis in treatment of drug-induced liver injury[J]. J Third Mil Med Univ, 2013, 35(16): 472.
- [9] 胡勤锦, 赵志钢, 徐兴森, 等. 罗格列酮对代谢综合征患者腹部脂肪分布的影响及其与脂代谢的关系[J]. 第三军医大学学报, 2010, 32(18): 1995. Hu Qingjin, Zhao Zhigang, Xu Xingsen, et al. Effects of rosiglitazone on abdominal fat distribution and its relationship

with lipid metabolism in metabolic syndrome patients[J].J Third Mil Med Univ,2010,32(16):1995.

[10]熊建琼,张雷,张永辉,等.血液灌流治疗高脂血症性急性胰腺炎的临床分析[J].第三军医大学学报,2009,31(19):1910.