

# 海南医学院学报

## Journal of Hainan Medical University

半月刊 第23卷第15期(总第190期) 2017年8月出版 1995年5月创刊

**主管**  
海南省教育厅

**主办**  
海南医学院

**编辑**  
海南医学院编辑委员会

**出版**  
《海南医学院学报》编辑部  
http://www.hnykdxxb.com  
http://hnyy.chinajournal.net.cn  
地址:海南省海口市学院路3号  
(571199)  
电话:+86-898-66893391  
传真:+86-898-66890465  
E-mail:hnyxyxb@126.com

**名誉主编**  
焦解歌

**主编**  
刘军保

**执行主编**  
屈顺海

**印刷**  
海口永发印刷股份有限公司

**发行**  
海南省报刊发行局  
国内外公开发行

**订购**  
全国各地邮政局  
邮发代号 84-14

**广告许可证**  
琼工商广字 018 号

**中国标准刊号**  
ISSN 1007-1237  
CN 46-1049/R

**国际期刊 CODEN 编号**  
CODEN: HYXAAM

**定价**  
每期 15.00 元

**出版日期**  
2017 年 8 月 14 日  
2017 年版权归属主办单位所有

### 目次

#### 【临床医学】

- 有氧运动训练对老年冠心病伴慢性心力衰竭患者红细胞参数、血管内皮功能的影响  
..... 马庆平, 邰赛, 顾莹, 等(2025)
- 序贯机械通气对肺心病患者心功能、内皮损伤程度及氧化应激反应程度的影响  
..... 何元增, 魏文峰(2029)
- 百令胶囊联合常规西医药物对稳定期 COPD 患者气道重塑进程的影响  
..... 宋素莉(2033)
- 通脉活血汤联合温针法对高原红细胞增多症患者血液流变学及抗氧化能力的影响  
..... 赵文玲, 杨如意, 曹昌霞, 等(2037)
- 喉癌组织中 Six1、MTDH、TKTL1 表达量与血清肿瘤标志物含量、细胞增殖活力的相关性  
..... 彭炜, 周明(2040)
- 有氧运动训练对 AD 患者胰岛素抵抗、血脂代谢及炎症反应的影响  
..... 杨坤芳, 谢晓燕, 杜昊音(2044)
- 糖尿病视网膜病变患者血清炎症因子、脂肪因子及氧化应激指标的变化  
..... 努荣古丽·买买提, 艾合买提江·吐乎提(2048)
- 丹红注射液联合厄贝沙坦对糖尿病肾病患者氧化应激反应、肾功能损害的影响  
..... 东珍, 于秋红, 谷晓宁(2052)
- 左卡尼汀辅助治疗对血液透析患者 EPO 抵抗和氧化应激及炎症反应的影响  
..... 侯丹丹, 王淑领, 尚赛男(2056)
- 复方  $\alpha$  酮酸联合常规营养干预对维持性血液透析患者炎症反应及氧化应激反应的影响  
..... 李莉(2060)
- Th17 细胞功能与前列腺炎病程中炎症反应、细胞凋亡的相关性研究  
..... 刘悦, 刘新锋, 杨志勇(2064)
- 狼疮肾炎患者外周血中 ICOS、OX40、CD40 表达量与病情活动的相关性研究  
..... 彭薇, 申利平(2067)
- 封闭负压引流联合生物敷料对糖尿病足溃疡创面植皮后血管新生、炎症反应的影响  
..... 卫东, 杜丽萍, 张家建(2071)
- 枸地氯雷他定联合布地奈德混悬液对行鼻窦内窥镜手术 CRS 患者血清 IgE、EOS 和炎性因子的影响  
..... 毕梦, 王丛, 杨飞(2075)
- 瑞芬太尼联合丙泊酚麻醉对脑外科手术患者 IL-1 $\beta$ 、IL-6、TNF- $\alpha$  及血流动力学的影响  
..... 沈倩, 彭坚, 施媛, 等(2078)
- 经椎旁肌间隙与微创经皮入路手术治疗胸腰椎骨折后的肌肉损伤、炎症反应及骨代谢评估  
..... 张锦, 余青, 王新虎(2082)

氢吗啡酮联合罗哌卡因用于骨科手术后硬膜外自控镇痛对疼痛、炎症介质及氧自由基的影响

..... 罗良英,赵泽宇(2086)

盐酸氢吗啡酮联合罗哌卡因用于等离子前列腺电切术后 PCEA 对疼痛介质及应激反应的影响

..... 马玉林,龚勇娟,李玲,等(2090)

腹腔镜手术联合新辅助化疗对结肠直肠癌患者血清 CEA、CA242、CA19-9、CA724、ICAM-1 及 VCAM-1 水平的影响

..... 谢文杰,李延红,谢长访,等(2094)

经皮经肝胆囊穿刺联合腹腔镜手术治疗急性重症胆囊炎的术后应激反应程度和免疫应答状态评估

..... 张雄,乔海燕(2098)

后腹腔镜肾窦内肾盂切开取石术与经皮肾镜碎石取石术的术后创伤程度比较

..... 俞家顺,王健,刘定益,等(2102)

静吸复合麻醉与全凭静脉麻醉对腹腔镜胆囊手术后全身创伤反应程度影响的差异

..... 李军平,薄智,韩彬(2105)

腹腔镜与开腹手术治疗对早期子宫内膜癌患者血清肿瘤标志物、凝血功能及免疫功能的影响

..... 崔彭华,王会民,张玉娟,等(2109)

压力性尿失禁患者官骶韧带中 MMPs/TIMPs 表达量、细胞外基质成分含量与细胞凋亡的关系

..... 龚霞(2113)

替勃龙和雌二醇屈螺酮替代治疗后围绝经期女性的神经体液指标及免疫功能评价

..... 靳灵鸽,金婧(2116)

低分子肝素治疗妊娠期高血压疾病后母体内皮损伤及胎盘病理损伤的评估

..... 董珊(2120)

医学营养和运动联合干预对妊娠期高血压患者胎盘缺血缺氧损伤、血清中血管新生因子的影响

..... 胡良慧,谢萍,陈德慧(2123)

补充叶酸及维生素对妊娠期高血压患者内皮损伤及胎盘血流灌注的影响

..... 林薇,马莎,杨林(2127)

高龄孕妇子宫动脉及胎儿血流动力学评估对妊娠结局的预测研究

..... 崔晓菁,朱剑芳(2131)

缺血性脑病患儿童高压氧疗法对 SAS、SDS 影响分析

..... 李佩云,李春芳,孙力(2135)

烧伤脓毒症患儿血浆肾上腺髓质素前体及皮质醇水平与全身炎症反应及靶器官损伤的关系

..... 魏星,欧阳杰,周臣(2138)

利巴韦林联合酪酸梭菌活菌散治疗对轮状病毒肠炎患儿 T 淋巴细胞亚群和炎症因子的影响

..... 丁燕苗,李函(2142)

阿奇霉素联合特布他林方案对支原体肺炎患儿感染情况及全身情况的影响

..... 唐仁惠(2145)

抗生素联合脂溶性维生素治疗小儿肺炎的全身情况及炎症反应程度评估

..... 柴巧利(2149)

前列腺癌病灶内 GPRC6A、PKCzeta 表达与细胞增殖、EMT 的关系研究

..... 曾繁飞,田生平,杨伟忠,等(2153)

TIA 进展为脑梗死患者血清血小板活化因子的含量及与凝血功能、炎症反应的相关性

..... 张俊(2157)

T-bet、GATA-3、Foxm1 在慢性鼻窦炎黏膜组织中的表达及与炎症分子表达的相关性

..... 王欣荣,李捷(2161)

IRAK1、TRAF6 表达量与口腔扁平苔藓病灶内炎症反应、免疫应答的相关性研究

..... 徐建英(2165)

## 海南医学院学报 编辑委员会

顾 问:白志勤 廖小平

李永春

名誉主编:焦解歌

主 编:刘军保

副 主 编:陈玉民 陈志斌

执行主编:屈顺海

中国编委(以下按姓氏笔画排列)

邓芳成 王宇田 白志明 刘明生

孙公凯 李 羲 肖劲逐 杨世忠

杨建军 张彩虹 孟志斌 易西南

郝新保 钱士匀 涂 蓉 黄元华

董克家 谢邵阳 蔡望伟 谭光宏

国际编委

Nigel J. Temperton (英国)

Jimmy Thomas Efirid (美国)

Guido Favia Camerino (意大利)

Malcolm K.Jones(澳大利亚)

Viroj Wiwanitkit (泰国)

Farouk M.F. El-sabban(美国)

F.Dewolfe Miller(美国)

Nazni Bte Hj. Wasi Ahmad(马来西亚)

Usa Lek-Uthai(泰国)

Kabkaew L. Sukontason(泰国)

Kom Sukontason(泰国)

Kusal K Das(印度)

Luca Vannucci(捷克共和国)

Asad U Khan(印度)

Nilanjan Chakraborty(印度)

Amere Subbarao Sreedhar(印度)

Liang Qiao(香港)

英文编辑

F.Dewolfe Miller(美国)

Guido Favia Camerino (意大利)

Usa Lek-Uthai(泰国)

Malcolm K.Jones(澳大利亚)

Viroj Wiwanitkit(泰国)

Jimmy Thomas Efirid (美国)

uca Vannucci(捷克共和国)

Farouk M.F.El-sabban(美国)

Nigel J. Temperton (英国)

Asad U Khan(印度)

Nazni Bte Hj. Wasi Ahmad (马来西亚)

# Journal of Hainan Medical University

Semimonthly

Vol.23 No.15 (Total 190)

Aug. 2017

## Competent Authority

Educational Department of Hainan Province

## Sponsored by

Hainan Medical University

## Edited by

Editorial Committee of Journal of Hainan Medical University

## Published by

Editorial Department of Journal of Hainan Medical University

<http://www.hnykdxxb.com>

<http://hnyy.chinajournal.net.cn>

Address: No.3 Xuanyuan Road, Haikou, Hainan 571199

Tel: +86-898-66893391

Fax: +86-898-66890465

E-mail: [hnyxyxb@126.com](mailto:hnyxyxb@126.com)

Publishing Contact Person: Zhang Xian-di

## Reputation Editor-in-Chief

JIAO Jie-ge

## Editor-in-Chief

LIU Jun-bao

## Executive Editor-in-Chief

QU Shun-hai

## Printed by

Haikou Yongfa Printing Co.,Ltd.

## Distributor

Distribution Bureau of Newspaper Magazine in Hainan Province

## Publication at Home and Abroad

Domestic Subscription: Domestic Local Post Office

## Postal Distributing Code

84-14

## Advertisement License

Qiong 018

## Chinese Standard Periodical Number

ISSN 1007-1237

CN 46-1049/R

## CODEN:

HYXAAM

## Price

¥15.00

## Publishing Date

14th Aug. 2017

## Copyright © 2017 by the Sponsors

## Contents

- Effect of aerobic exercise training on red blood cell parameters, vascular endothelial function in elderly patients with coronary heart disease and chronic heart failure  
..... MA Qing-ping, HUAN Sai, GU Ying, et al. (2025)
- Effect of sequential mechanical ventilation on cardiac function, endothelial injury and oxidative stress response in patients with cor pulmonale  
..... HE Yuan-zeng, WEI Wen-feng (2029)
- Effect of Corbrin Capsule combined with routine western medicine on the airway remodeling process in patients with stable COPD  
..... SONG Su-li (2033)
- Effect of Tongmai Huoxue decoction combined with warm needling therapy on hemorheology and anti-oxidation ability in patients with high altitude polycythemia  
..... ZHAO Wen-ling, YANG Ru-yi, CAO Chang-xia, et al. (2037)
- Correlation of Six1, MTDH and TKTL1 expression in laryngeal cancer tissue with serum tumor marker levels and cell proliferation activity  
..... PENG Wei, ZHOU Ming (2040)
- Effect of aerobic exercise training on insulin resistance, lipid metabolism and inflammatory response in patients with AD  
..... YANG Kun-fang, XIE Xiao-yan, DU Hao-yin, et al. (2044)
- Changes of serum inflammatory factors, adipokines and oxidative stress in patients with diabetic retinopathy  
..... MAIMAITI Nurong-guri, TUHUTI Akomatine (2048)
- Effect of Danhong injection combined with irbesartan on oxidative stress and renal function damage in patients with diabetic nephropathy  
..... DONG Zhen, YU Qiu-hong, GU Xiao-ning (2052)
- Effect of adjuvant levocarnitine therapy on EPO resistance, oxidative stress response and inflammatory response in patients with hemodialysis  
..... HOU Dan-dan, WANG Shu-ling, SHANG Sai-nan (2056)
- Effect of compound  $\alpha$ -ketoacid combined with routine nutritional intervention on inflammatory response and oxidative stress response in patients with maintenance hemodialysis  
..... LI Li (2060)
- Correlation of Th17 cell function with the inflammatory response and apoptosis in the course of prostatitis  
..... LIU Yue, LIU Xin-feng, YANG Zhi-yong (2064)
- Correlation of peripheral blood COS, OX40 and CD40 expression with disease activity in patients with lupus nephritis  
..... PENG Wei, SHEN Li-ping (2067)
- Effect of vacuum sealing drainage combined with biological dressings on the angiogenesis and inflammatory response after diabetic foot ulcer wound grafting  
..... WEI Dong, DU Li-ping, ZHANG Jia-jian (2071)
- Effects of Desloratadine Citrate Disodium combined with Budesonide Nasal Spray on serum IgE, EOS and inflammatory factors in patients with CRS after endoscopic sinus surgery  
..... BI Meng, WANG Cong, YANG Fei (2075)
- Effects of remifentanyl combined with propofol anesthesia on IL-1 $\beta$ , IL-6, TNF- $\alpha$  and hemodynamics in patients undergoing brain surgery  
..... SHEN Qian, PENG Jian, SHI Yuan, et al. (2078)
- Assessment of the muscle injury, inflammatory response and bone metabolism after paravertebral muscle space and minimally invasive percutaneous approach surgeries for thoracolumbar fracture  
..... ZHANG Jin, SHE Qing, WANG Xin-hu (2082)
- Effect of hydromorphone hydrochloride combined with ropivacaine for PCEA after orthopedic surgery on the synthesis of pain mediators, inflammatory mediator and oxygen free radicals  
..... LUO Liang-ying, ZHAO Ze-yu (2086)
- Effect of hydromorphone hydrochloride combined with ropivacaine for PCEA after transurethral resection of prostate on pain mediators and stress response  
..... MA Yu-lin, GONG Yong-juan, LI Ling, et al. (2090)

## Editorial Board of Journal of Hainan Medical University

### Consultants

BAI Zhi-qin, LIAO Xiao-ping,  
LI Yong-chun

### Reputation Editor-in-Chief

JIAO Jie-ge

### Editor-in-Chief

LIU Jun-bao

### Associate Editor-in-Chief

CHEN Yu-min, CHEN Zhi-bin

### Executive Editor-in-Chief

QU Shun-hai

### Members of Editorial Board

Nigel J. Temperton (UK)  
Jimmy Thomas Efird (USA)  
Guido Favia Camerino (Italy)  
Farouk M.F. El-sabban (PhD,U.S.A.)  
F. Dewolf Miller (PhD,U.S.A.)  
Malcolm K. Jones (PhD,Australia)  
Viroj Wiwanitkit (MD, Thailand)  
Nazni Bte Hj. Wasi Ahmad (PhD, Malaysia)  
Usa Lek-Uthai (PhD, Thailand)  
Kabkaew L. Sukontason(PhD,Thailand)  
Kom Sukontason(PhD, Thailand)  
Kusal K Das(PhD,India)  
Luca Vannucci(PhD,Czech Republic)  
Asad U Khan(PhD,India)  
Nilanjan Chakraborty(PhD,India)  
Amere Subbarao Sreedhar(PhD,India)  
Liang Qiao(PhD,Hongkong)  
DENG Fang-cheng (MD,China)  
WANG Yu-tian (MD,China)  
BAI Zhi-ming (MD,China)  
LIU Ming-sheng (MD,China)  
SUN Gong-kai (MD,China)  
LI Xi (MD,China)  
XIAO Jin-zhu (MD,China)  
YANG Shi-zhong (MD,China)  
YANG Jian-jun (MD,China)  
ZHANG Cai-hong (MD,China)  
MENG Zhi-bin (MD,China)  
YI Xi-nan (MD,China)  
HAO Xin-bao (MD,China)  
QIAN Shi-yue (MD,China)  
TU Rong (MD,China)  
HUANG Yuan-hua (MD,China)  
DONG Ke-jia (MD,China)  
XIE Qi-yang (MD,China)  
CAI Wang-wei (MD,China)  
TAN Guang-hong (MD,China)

### English Editors

F. Dewolf Miller (PhD,U.S.A.)  
Guido Favia Camerino, Italy  
Usa Lek-Uthai (PhD, Thailand)  
Malcolm K. Jones (PhD,Australia)  
Viroj Wiwanitkit (PhD,Thailand)  
Jimmy Thomas Efird Honolulu,USA  
Luca Vannucci(PhD,Czech Republic)  
Farouk MF. El-sabban (PhD,U.S.A.)  
Nigel J. Temperton London, UK  
Asad U Khan(PhD,India)  
Nazni Bte Hj. Wasi Ahmad (PhD, Malaysia)

Effects of laparoscopic operation combined neoadjuvant chemotherapy on serum levels of CEA, CA242, CA19-9, CA724, ICAM-1 and VCAM-1 in patients with colorectal carcinoma

..... XIE Wen-jie, LI Yan-hong, XIE Chang-fang, et al.(2094)

Evaluation of the stress response and immune response after percutaneous transhepatic gallbladder puncture combined with laparoscopic surgery for acute severe cholecystitis

..... ZHANG Xiong, QIAO Haiyan(2098)

Comparison of the postoperative trauma of the retroperitoneal laparoscopic intrasusinal pyelolithotomy and percutaneous nephrolithotomy

..... YU Jia-shun, WANG Jian, LIU Ding-yi, et al.(2102)

Differences in the effects of intravenous inhalational anesthesia and total intravenous anesthesia on the systemic traumatic response after laparoscopic cholecystectomy

..... LI Jun-ping, BO Zhi, HAN Bin(2105)

Effects of laparoscopic and open surgery on serum tumor markers, coagulation function and immune function in patients with early endometrial cancer

..... CUI Peng-hua, WANG Hui-min, ZHANG Yu-juan, et al.(2109)

Relationship of MMPs/TIMPs expression and extracellular matrix component levels in uterosacral ligament with apoptosis in patients with stress urinary incontinence

..... GONG Xia(2113)

Effect of tibolone as well as estradiol and drospirenone replacement therapy on the neurohumoral indexes and immune function in perimenopausal women

..... JIN Ling-ge, JIN Jing(2116)

Effect of low molecular weight heparin therapy on maternal endothelial injury and placental pathological injury after hypertensive disorder complicating pregnancy

..... DONG Shan(2120)

Effect of medical nutrition combined with exercise intervention on the placental ischemic hypoxic injury and serum angiogenesis factors in patients with gestational hypertension

..... HU Liang-hui, XIE Ping, CHEN De-hui(2123)

Effect of folic acid and vitamin supplement on endothelial injury and placental blood perfusion in patients with hypertensive disorder complicating pregnancy

..... LIN Wei, MA Sha, YANG Lin(2127)

Predicting obstetric outcomes of advanced maternal age through determination of hemodynamics of uterine artery, umbilical artery and fetal cerebral middle artery

..... CUI Xiao-jing, ZHU Jian-fang(2131)

Effect of hyperbaric oxygen therapy on SAS and SDS in children with ischemic encephalopathy

..... LI Pei-yun, LI Chun-fang, SUN Li(2135)

Relationship of plasma proadrenomedullin and cortisol levels with systemic inflammatory response and target organ damage in children with sepsis after burn

..... WEI Xing, OUYANG Jie, ZHOU Chen(2138)

Effects of ribavirin combined with Clostridium butyricum powder on T lymphocyte subsets and inflammatory factors in children with rotavirus enteritis

..... DING Yan-miao, LI Han(2142)

Effect of azithromycin combined with terbutaline on the infection and systemic conditions in children with mycoplasma pneumonia

..... TANG Ren-hui(2145)

Evaluation of the general conditions and inflammatory response of antibiotics combined with fat-soluble vitamin therapy for pediatric pneumonia

..... CHAI Qiao-li(2149)

Relations of GPRC6A and PKCzeta expression levels in prostate cancer lesions with cell proliferation and EMT

..... ZENG Fan-fei, TIAN Sheng-ping, YANG Wei-zhong, et al.(2153)

Serum platelet-activating factor level of patients with cerebral infarction from TIA and its correlation with coagulation function and inflammatory response

..... ZHANG Jun(2157)

T-bet, GATA-3 and Foxm1 expression in chronic sinusitis mucosa and their correlation with inflammatory molecule expression

..... WANG Xin-rong, LI Jie(2161)

Correlation of IRAK1 and TRAF6 expression with inflammatory response and immune response in oral lichen planus lesions

..... XU Jian-ying(2165)