

ISSN 0577-7402

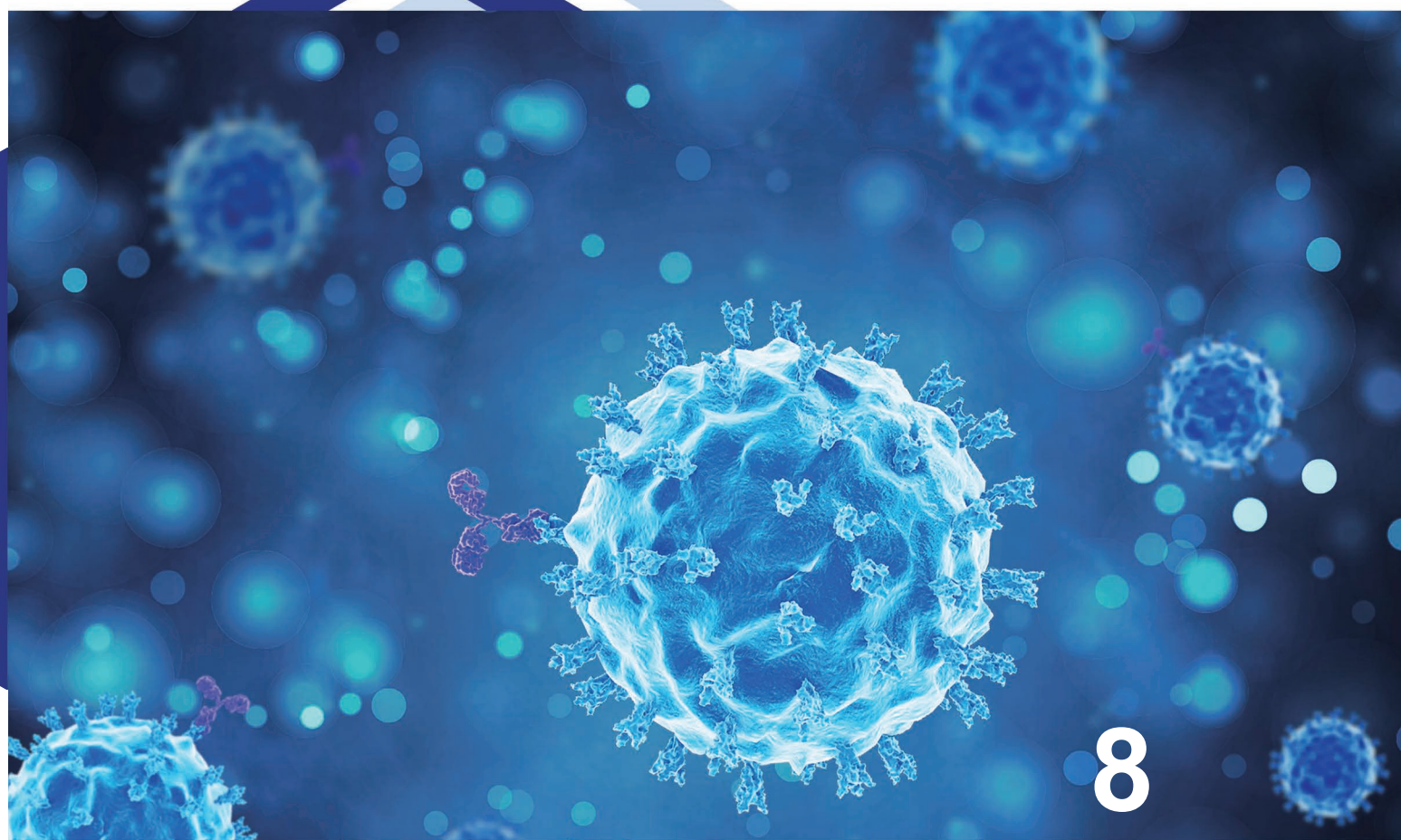
CN 11-1056/R

CODEN CFCHBN

# 解放军医学杂志<sup>®</sup>

Medical Journal of Chinese People's Liberation Army

[www.jfjyxzz.org.cn](http://www.jfjyxzz.org.cn)



8

2023

第48卷 第8期 月刊

Volume 48 Issue 8



军事科学院 主管

军事科学出版社 主办

## 目次

### 指南与共识

- 871 军事训练防治中暑/热射病降温方法专家共识  
全军热射病防治专家组

### 基础研究

- 879 人脱落乳牙牙髓间充质干细胞对大鼠颞下颌关节骨关节炎的治疗作用  
何睿, 陈晓华, 何峰, 马原军, 吴凡, 段宇辰, 苗辉, 于世宾, 逢键梁
- 887 卡马西平对癫痫大鼠中脑腹侧被盖区多巴胺能神经元Kv7.4通道的影响  
王大永, 裴剑, 洪铭岩, 徐翔, 高云鹤, 郑宇, 王凯杰, 崔建忠
- 893 高温直接打击法与逐步升温法建立经典型热射病多器官功能障碍综合征小鼠模型的对比及评价  
刘育妍, 李云, 胡婕, 宣律, 王陆, 袁睿, 邓子辉, 张玉想, 康红军, Yuan Rui
- 903 雷帕霉素对劳力型热射病大鼠下丘脑损伤的保护作用及其机制  
宣律, 张玉想, 王佳兴, 顾焱, 任卫东, 孙正中, 马运亚
- 913 新型推注式压缩纤维素止血装置在小型猪深部组织大出血急救中的止血效果及安全性研究  
杨磊, 赵丹阳, 杨志远, 叶彤, 董佳慧, 薛婷, 韩鹏, 吴卓娜, 孙文种, 甘慧, 窦桂芳, 顾若兰, 孟志云

### 临床研究

- 921 多功能蛋白聚糖基因对膀胱尿路上皮癌免疫浸润及预后的影响  
吕磊, 郑福鑫, 周高峰, 吴维
- 929 基于肿瘤成分评估依维莫司对结节性硬化症相关肾血管平滑肌脂肪瘤的治疗作用  
段永飞, 武国军, 倪建鑫, 严奉奇, 郭佳恒, 王东升
- 936 慢性乙型肝炎病毒感染患者中性粒细胞活性氧的生成特点及临床意义  
冯芷倩, 鲍春梅, 汪海燕, 杨涛, 唐莉莉, 徐若男, 王福生
- 944 行直接PCI的急性心肌梗死患者TYG与缺血事件的相关性分析  
周鹤, 裘森涵, 那堃, 范鹏, 祁子钊, 李毅, 韩雅玲
- 950 经阴道超声结合MV-Flow成像技术在育龄期女性排卵期子宫内膜超声特点分析中的作用  
宋梦洁, 汪龙霞, 徐虹

### 综述

- 957 糖尿病心肌病发病机制及治疗研究进展  
陈艳艳, 周洁, 卢作维, 李梦颖, 马溪悦, 李晓苗
- 965 战后创伤性脑损伤研究进展  
杨凌齐, 吕洋
- 972 高迁移率族蛋白B1与脓毒症相关脑病关系的研究进展  
原娇娇, 方宗平, 张西京

- 978 虚拟现实技术在军事医学领域中的应用  
力光瑞, 高野, 庞亚南, 边岩, 李兆申, 王洛伟
- 983 帕金森病发病机制研究进展  
肖琪, 樊慧杰, 李艳荣, 孙芮芮, 贾璐, 徐磊, 尉杰忠, 肖保国, 马存根, 柴智

名誉主编 盛志勇  
编辑部主任 范晨芳

主编 付小兵  
本期执行编辑 蒋铭敏

订购本刊者, 如遇有印刷、装订质量问题, 编辑部负责调换。

**解放军医学杂志**<sup>®</sup>  
JIEFANGJUN YIXUE ZAZHI  
(陈毅元帅题写刊名)  
(月刊)

1964年3月创刊

2023年第48卷第8期

主 管 军事科学院  
主 办 军事科学出版社  
学术指导 中央军委后勤保障部卫生局  
出 版 《解放军医学杂志》编辑部  
地址: 北京市海淀区复兴路22号75号楼 100842  
电话: 010-51927306(地方线, 传真), 0201-882929-8021(军线)  
E-mail: jfyxzz8021@163.com  
网址: <http://www.jfyxzz.org.cn>

印 刷 北京印刷集团有限责任公司  
发 行 中国邮政集团公司北京市报刊发行局(国内总发行)  
中国国际图书贸易集团有限公司(国外总发行)

刊 号 国际标准连续出版物号 ISSN 0577-7402  
国内统一连续出版物号 CN 11-1056/R

邮发代号 国内 2-74 国外 M499  
CODEN CFCHBN

# MEDICAL JOURNAL OF CHINESE PEOPLE'S LIBERATION ARMY

August 2023

Volume 48

Issue 8

Monthly

---

## Contents

### Guideline and Consensus

- 871 **Expert consensus on cooling methods for preventing heat illness/stroke in military training**  
*Expert Group of Heat Stroke Prevention and Treatment of the Chinese PLA*

### Basic Research

- 879 **Effect of stem cells from human exfoliated deciduous teeth on temporomandibular joint osteoarthritis in rats**  
*He Rui, Chen Xiao-Hua, He Feng, Ma Yuan-Jun, Wu Fan, Duan Yu-Chen, Miao Hui, Yu Shi-Bin, Pang Jian-Liang*
- 887 **Effects of carbamazepine on Kv7.4 channel of VTA dopaminergic neurons in epileptic rats**  
*Wang Da-Yong, Pei Jian, Hong Ming-Yan, Xu Xiang, Gao Yun-He, Zheng Yu, Wang Kai-Jie, Cui Jian-Zhong*
- 893 **Comparison and evaluation of direct heat stroke method and stepwise heating method for establishing mouse model of multiple organ dysfunction in classic heat stroke**  
*Liu Yu-Yan, Li Yun, Hu Jie, Xuan Lv, Wang Lu, Deng Zi-Hui, Zhang Yu-Xiang, Kang Hong-Jun*
- 903 **Protective effect of rapamycin on hypothalamus injury in exertional heat stroke rats and its mechanism**  
*Xuan Lv, Zhang Yu-Xiang, Wang Jia-Xing, Gu Yan, Ren Wei-Dong, Sun Zheng-Zhong, Ma Yun-Ya*
- 913 **Efficacy and safety evaluation of a new type of pushable compressed cellulose hemostatic device for controlling miniature swine lethal junctional hemorrhage**  
*Yang Lei, Zhao Dan-Yang, Yang Zhi-Yuan, Ye Tong, Dong Jia-Hui, Xue Ting, Han Peng, Wu Zhuo-Na, Sun Wen-Zhong, Gan Hui, Dou Gui-Fang, Gu Ruo-Lan, Meng Zhi-Yun*

### Clinical Research

- 921 **Effect of VCAN on immune infiltration and prognosis of bladder urothelial carcinoma**  
*Lv Lei, Zheng Fu-Xin, Zhou Gao-Feng, Wu Wei*
- 929 **Evaluation of the therapeutic effect of everolimus on tuberous sclerosis related renal angiomyolipoma based on tumor components**  
*Duan Yong-Fei, Wu Guo-Jun, Ni Jian-Xin, Yan Feng-Qi, Guo Jia-Heng, Wang Dong-Sheng*
- 936 **Characteristics and clinical significance of reactive oxygen species production by neutrophils in patients with chronic hepatitis B virus infection**  
*Feng Zhi-Qian, Bao Chun-Mei, Wang Hai-Yan, Yang Tao, Tang Li-Li, Xu Ruo-Nan, Wang Fu-Sheng*
- 944 **Correlation between TYG and ischemic events in patients with acute myocardial infarction undergoing primary percutaneous coronary intervention**  
*Zhou He, Qiu Miao-Han, Na Kun, Fan Peng, Qi Zi-Zhao, Li Yi, Han Ya-Ling*

- 950 **Analysis of ultrasonographic characteristics of endometrium during ovulation in women of childbearing age by transvaginal ultrasound combined with MV-Flow imaging**  
*Song Meng-Jie, Wang Long-Xia, Xu Hong*

**Review**

- 957 **Research progress on pathogenesis and treatment of diabetes cardiomyopathy**  
*Chen Yan-Yan, Zhou Jie, Lu Zuo-Wei, Li Meng-Ying, Ma Xi-Yue, Li Xiao-Miao*
- 965 **Advances in pathophysiological study of military traumatic brain injury**  
*Yang Ling-Qi, Lv Yang*
- 972 **Research progress on the relationship between high mobility group box 1 and sepsis-associated encephalopathy**  
*Yuan Jiao-Jiao, Fang Zong-Ping, Zhang Xi-Jing*
- 978 **Application of virtual reality technology in military medicine**  
*Li Guang-Rui, Gao Ye, Pang Ya-Nan, Bian Yan, Li Zhao-Shen, Wang Luo-Wei*
- 983 **Research progress on the pathogenesis of Parkinson's disease**  
*Xiao Qi, Fan Hui-Jie, Li Yan-Rong, Sun Rui-Rui, Jia Lu, Xu Lei, Wei Jie-Zhong, Xiao Bao-Guo, Ma Cun-Gen, Chai Zhi*

**Editor-in-Chief:** Fu Xiao-Bing

**Managing Editor:** Fan Chen-Fang

解放军医学杂志®  
(陈毅元帅题写刊名)

**Med J Chin PLA**

**Monthly**

Established in March, 1964

Vol. 48, No. 8, 2023

**Directed by** Academy of Military Sciences

**Sponsored by** Military Sciences Publishing House

**Academic guidance** Directorate of Medical Services, Logistics Support Department,  
Central Military Commission of PRC

**Published by** Editorial Board of Medical Journal of Chinese People's Liberation Army  
Address: Building No. 75, 22 Fuxing Road, Haidian District, Beijing 100842, China  
E-mail: jfyxzz8021@163.com  
<http://www.jfyxzz.org.cn>

**Printed by** Beijing Printing Co., Ltd

**Distributed by** Domestic: China Post Group Corporation local Post office  
[Code No. 2-74]

Overseas: China International Book Trading Corporation  
P.O. Box 399, Beijing, China [Code No. M499]

**Periodical No.** ISSN 0577-7402 CN 11-1056/R

**CODEN** CFCHBN

Publication date: August 28, 2023



## Introduction to *Military Medical Research*

*Military Medical Research* is an open access, peer-reviewed journal dedicated to disseminating the latest evidence and novel findings in the full range of topics in basic and clinical sciences, translational research and precision medicine, emerging and interdisciplinary subjects, and superior technologies.

Focus of the journal is modern military medicine, but we welcome manuscripts from other relevant areas, including but not limited to basic medical research with translational potentials as well as clinical research with potential impact on medical practice within the context of modern warfare and peacetime military operations.

### MMR indexed in

- Science Citation Index Expanded (SCIE)
- MEDLINE
- PubMed, PMC
- Scopus
- DOAJ
- Excellence Action Plan of China STM Journals



### Article types

- Research
- Review
- Position article and Guideline
- Perspective
- Letter to the Editor
- Commentary



**Military Medical Research**

Building No. 75, 22 Fuxing Road, Haidian District, Beijing 100842, China

<https://mmrjournal.biomedcentral.com/>

Fax: +86-10-51927306

ISSN 0577-7402

