

第二军医大学学报

DI-ER JUNYI DAXUE XUEBAO

月刊 1980年6月创刊 第40卷 第9期 总第361期 2019年9月20日出版

主 管

第二军医大学(海军军医大学)

主 办

第二军医大学(海军军医大学)

编 辑

《第二军医大学学报》编辑委员会

上海市翔殷路800号,上海200433

电话(传真): 86-21-81870791

E-mail: bxue@smmu.edu.cn

主 编 吴孟超

编辑部主任 余党会

出 版

《第二军医大学学报》编辑部

上海市翔殷路800号,上海200433

电话(传真): 86-21-81870791

E-mail: bxue@smmu.edu.cn

<http://www.qjsmmu.cn>

网站备案号:沪10039470-2

印 刷

上海欧阳印刷厂有限公司

上海市德力西路128号9栋,上海201802

电话: 86-21-60822036

发 行

国内: 上海市报刊发行局

国外: 中国国际图书贸易集团

有限公司

北京399信箱, 100048

代号 M 3852

订 购

全国各地邮政局

邮发代号 4-373

邮 购

《第二军医大学学报》编辑部

上海市翔殷路800号,上海200433

电话: 86-21-81870792

E-mail: bxue@smmu.edu.cn

定 价

每册 25.00 元, 全年 300.00 元

中国标准连续出版物号

ISSN 0258-879X

CN 31-1001/R

2019年版权归第二军医大学(海军军医大学)所有

除非特别声明, 本刊刊出的所有文章不代表第二军医大学(海军军医大学)和本刊编辑委员会的观点

目 次

专家论坛

- 937 我国生物安全立法现状与展望
何蕊, 田金强, 潘子奇, 张连祺

论 著

- 945 雷奈酸锶改善成骨不全症模型 *oim* 小鼠代谢失衡的双向机制
孙斌, 徐增, 吴卉乔, 郭蕾, 张颖, 石长贵, 袁文
- 954 降钙素促进人牙周膜干细胞的胶原合成和成骨作用
黄美能, 李博, 蔚一博, 韩煦, 杨欣渝, 全知怎, 方奥, 蓝雨吟
- 963 雷公藤红素诱导未折叠蛋白反应信号通路中真核细胞翻译起始因子 2 α 活化抑制多发性骨髓瘤细胞生长
彭彬, 宋瑜婷, 张雪, 王莹, 曹帆帆, 张登海
- 970 实时超声弹性成像技术评价不同功率微波消融致兔骨骼肌急性损伤后修复的动态变化
赵佳琦, 章建全, 赵璐璐, 宋家琳, 潘倩, 盛建国, 刘士远
- 977 链脲佐菌素构建糖尿病小鼠视网膜病变模型及评价
张昊瑞, 高鑫, 赵子畅, 沈炜
- 984 γ -谷氨酰转肽酶与血小板比率对慢性乙型肝炎肝纤维化的诊断效能
沈崔琴, 李万斌, 雷洁雯, 谭碧波, 郭佳
- 989 经鼻高流量湿化氧疗应用于慢性阻塞性肺疾病合并 2 型呼吸衰竭患者气管插管拔管后的疗效和安全性: 随机对照研究
喻正浩, 张瑞, 黄卉, 李俊, 耿爽
- 995 近红外光谱分析技术用于硫酸羟氯喹原辅料混合均匀度在线定量监测
李沙沙, 赵云丽, 陆峰, 于治国
- 1001 利用加权基因共表达网络挖掘乳腺癌相关疾病靶标
李一, 熊萱, 张远

综 述

- 1010 骨形态发生蛋白 2 临床应用的不良反应
袁佳滨, 缪雄, 栗景峰, 石志才
- 1015 失眠症患者认知功能损害的特点及其机制
何静文, 屠志浩, 苏彤, 肖磊, 唐云翔

海洋军事医学

1020 潜艇艇员与潜艇岸勤人员领悟力、记忆力和作业能力对比研究

魏 存, 王云霞, 沈兴华

1024 非医学海军类院校学员常见急救知识的掌握现状分析

周 健, 汪玉婷, 席惠君, 桂 莉, 刘晶晶

学术园地

1028 我国专科医师规范化培训研究现状分析

孟 煜, 方佳圆

短篇论著

1032 经导管主动脉瓣置换术围手术期心电图表现及临床意义

周广为, 潘佳君, 乔 帆, 李 莉, 陆方林, 徐志云

1036 封堵治疗甘肃省高原、亚高原地区婴幼儿动脉导管未闭的疗效和安全性

王建军, 范文海, 孙永红, 崔维静, 雷晓燕

1041 新型三重抗生素糊剂对再治疗根管内粪肠球菌的抗菌效果及近期疗效

王 萍, 郭子君, 胡 婷, 郑苔菁, 赵 健

研究简报

1046 两种评估牙齿漂白效果方法的比较

沈亚仙, 唐卫忠

病例报告

1050 以癫痫、高热首发儿童桥本脑病伴心律失常 1 例报告

赵 清, 逯 军, 陈小建, 崔清洋

庆祝中华人民共和国成立 70 周年（封二）

本期责任编辑 杨亚红

本期英文编辑 余党会 杨亚红

本期责任校对 尹 茶 孙 岩 商素芳 魏学丽 惠朝阳

本期中图号标引 孙 岩

Academic Journal of Second Military Medical University

DI-ER JUNYI DAXUE XUEBAO

Monthly, founded in June 1980

Vol. 40, No. 9 (Gen. No. 361) September 20, 2019

Sponsor

Second Military Medical University
(Naval Medical University)

Edited by

Editorial Board of
Acad J Sec Mil Med Univ
800 Xiangyin Road, Shanghai 200433, China
Tel (Fax): 86-21-81870791
E-mail: bxue@smmu.edu.cn

Editor-in-Chief

WU Meng-chao

Editorial Director

YU Dang-hui

Published by

Editorial Office of
Acad J Sec Mil Med Univ
800 Xiangyin Road, Shanghai 200433, China
Tel (Fax): 86-21-81870791
E-mail: bxue@smmu.edu.cn
<http://www.ajsmmu.cn>
ICP: Shanghai 10039470-2

Printing

Shanghai Ouyang Printing Co., Ltd.
(Printed on acid-free paper)
Building 9, No. 128 Delixi Road,
Shanghai 201802, China
Tel: 86-21-60822036

Overseas Distributor

China International Book
Trading Corporation
P.O.Box 399, Beijing 100048, China
Code No. M 3852

Domestic Distributor

Local Post Offices
Code No. 4-373

Mail-Order

Editorial Office of
Acad J Sec Mil Med Univ
800 Xiangyin Road, Shanghai 200433, China
Tel: 86-21-81870792
E-mail: bxue@smmu.edu.cn

CSSN

ISSN 0258-879X
CN 31-1001/R

Copyright © 2019 by Second Military Medical University (Naval Medical University)

All articles published represent the opinions of the authors, do not reflect the official policy of Second Military Medical University (Naval Medical University) or the Editorial Board, unless this is clearly specified.

CONTENTS

Expert forum

- 937 Laws and regulations for biosafety in China: status and prospect
HE Rui, TIAN Jin-qiang, PAN Zi-qi, ZHANG Lian-qi

Original article

- 945 Strontium ranelate improving metabolic imbalance in *oim* mice of osteogenesis imperfecta: the dual mechanism
SUN Bin, XU Zeng, WU Hui-qiao, GUO Lei, ZHANG Ying, SHI Chang-gui, YUAN Wen
- 954 Calcitonin promotes collagen synthesis and osteogenesis in human periodontal ligament stem cells
HUANG Mei-neng, LI Bo, WEI Yi-bo, HAN Xu, YANG Xin-yu, QUAN Zhi-zen, FANG Ao, LAN Yu-yin
- 963 Celastrol inhibits multiple myeloma cell growth by activating eukaryotic initiation factor 2 α in unfolded protein response
PENG Bin, SONG Yu-ting, ZHANG Xue, WANG Ying, CAO Fan-fan, ZHANG Deng-hai
- 970 Real-time ultrasound elastography in evaluating dynamic changes of rabbit skeletal muscle injury induced by microwave ablation of different powers
ZHAO Jia-qi, ZHANG Jian-quan, ZHAO Lu-lu, SONG Jia-lin, PAN Qian, SHENG Jian-guo, LIU Shi-yuan
- 977 Streptozotocin-induced diabetic retinopathy in mice: model establishment and evaluation
ZHANG Hao-rui, GAO Xin, ZHAO Zi-chang, SHEN Wei
- 984 Efficiency of γ -glutamyl transpeptidase to platelet ratio for diagnosis of liver fibrosis in chronic hepatitis B patients
SHEN Cui-qin, LI Wan-bin, LEI Jie-wen, TAN Bi-bo, GUO Jia
- 989 Efficacy and safety of humidified high flow nasal cannula in chronic obstructive pulmonary disease complicated with type 2 respiratory failure patients after extubation: a randomized controlled trial
YU Zheng-hao, ZHANG Rui, HUANG Hui, LI Jun, GENG Shuang
- 995 Near-infrared spectroscopy for online quantitative monitoring of blend uniformity of hydroxychloroquine sulfate raw and auxiliary materials
LI Sha-sha, ZHAO Yun-li, LU Feng, YU Zhi-guo

1001 Weighted gene co-expression network analysis for data mining of breast cancer biomarkers

LI Yi, XIONG Xuan, ZHANG Yuan

Review

1010 Clinical application of bone morphogenetic protein 2: adverse reaction

YUAN Jia-bin, MIAO Xiong, LI Jing-feng, SHI Zhi-cai

1015 Insomnia: the characteristics and mechanisms of cognitive impairment

HE Jing-wen, TU Zhi-hao, SU Tong, XIAO Lei, TANG Yun-xiang

Naval medicine

1020 Comprehension, memory and job performance between submariners and off-shore staffs: a comparative study

WEI Cun, WANG Yun-xia, SHEN Xing-hua

1024 Investigation of first aid knowledge among non-medical naval students

ZHOU Jian, WANG Yu-ting, XI Hui-jun, GUI Li, LIU Jing-jing

Academic discussion

1028 Standardized training of specialists in China: an analysis of current situation

MENG Yu, FANG Jia-yuan

Short article

1032 Electrocardiogram during perioperative period of transcatheter aortic valve replacement: characteristics and clinical implications

ZHOU Guang-wei, PAN Jia-jun, QIAO Fan, LI Li, LU Fang-lin, XU Zhi-yun

1036 Efficacy and safety of occlusion therapy for patent ductus arteriosus infants in plateau and sub-plateau of Gansu Province, China

WANG Jian-jun, FAN Wen-hai, SUN Yong-hong, CUI Wei-jing, LEI Xiao-yan

1041 Evaluation of antibacterial effect and short-term clinical effect of new triple antibiotic paste against *Enterococcus faecalis* for root canal retreatment

WANG Ping, GUO Zi-jun, HU Ting, ZHENG Tai-jing, ZHAO Jian

Brief report

1046 Comparison of two evaluation methods for tooth bleaching effect

SHEN Ya-xian, TANG Wei-zhong

Case report

1050 Hashimoto's encephalopathy accompanied by arrhythmia in child starting with epilepsy and high fever: a case report

ZHAO Qing, LU Jun, CHEN Xiao-jian, CUI Qing-yang

Executive editor YANG Ya-hong

English editors YU Dang-hui, YANG Ya-hong

Executive proofreaders YIN Cha, SUN Yan, SHANG Su-fang, WEI Xue-li, HUI Zhao-yang

Chinese library classification SUN Yan