

第二军医大学 学报

DI-ER JUNYI DAXUE XUEBAO

月刊 1980年6月创刊 第43卷 第1期 总第389期 2022年1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.ajsmmu.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M3852

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

2022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

1 加强脑卒中防治,落实国家减少百万新发残疾工程

张永巍,刘建民

5 区域卒中联盟建设

彭亚

专题报道: 超时间窗机械取栓研究现状

9 大血管闭塞急性缺血性脑卒中超时间窗机械取栓研究现状

张小曦,花伟龙,沈红健,张磊,张永鑫,邢鹏飞,李子付,张永巍,杨鹏飞,刘建民

专题报道: 急性脑卒中救治流程探索

15 我国三级甲等医院急性缺血性脑卒中院前预警与院内绿色通道流程管理

现况调查

张小曦,周一汉,李群,李密,李子付,张磊,沈红健,张永巍,杨鹏飞,刘建民

23 标准卒中救治流程缩短大血管闭塞急性缺血性脑卒中患者的救治时间

朱罗江,张洪剑,沈红健,张小曦,沈芳,赵瑞,李强,张永巍,杨鹏飞,刘建民

专题报道: 急性脑卒中的影像学评估

29 不明原因栓塞性脑卒中患者的栓塞原因及影像学特征探讨

田冰,侯雨希,田霞,王铁功,刘建民,陆建平

35 低灌注强度比值对前循环大血管闭塞急性缺血性脑卒中血管内取栓治疗预后的预测价值

沈芳,沈红健,张萍,朱宣,吴雄枫,邢鹏飞,张敏敏,张永巍,吴涛,邓本强

42 基于CT灌注成像的pc-ASPECTS对椎基底动脉闭塞急性缺血性脑卒中预后的预测价值

沈红健,沈芳,尹伟,邢鹏飞,李子付,张磊,李强,杨鹏飞,张永巍,刘建民

专题报道：急性脑卒中的静脉溶栓治疗

- 49 静脉溶栓治疗不同病因急性缺血性脑卒中的疗效比较
朱 宣, 张敏敏, 沈红健, 沈 芳, 陈 蕾, 姜 一, 袁 绘, 张永巍, 吴 涛, 邓本强
- 55 静脉溶栓治疗反复短暂性脑缺血发作的疗效分析
吴雄枫, 袁 绘, 沈红健, 邢鹏飞, 朱 宣, 张敏敏, 林煌斌, 张永巍, 吴 涛, 邓本强

专题报道：急性脑卒中的血管内治疗

- 60 阶梯式血管内治疗策略在前循环急性颅内动脉粥样硬化性大血管闭塞患者中的应用效果
刘 沛, 张 磊, 花伟龙, 张小曦, 李子付, 邢鹏飞, 张永巍, 杨鹏飞, 洪 波, 刘建民
- 65 颅内动脉粥样硬化性狭窄型急性大血管闭塞血管再通技术分析
陈荣华, 曹 洁, 朱旭成, 邵华明, 蒋天伟, 宣井岗, 彭 亚
- 72 急诊血管内治疗同期颈动脉支架植入对颈动脉串联病变的临床疗效
吴燕敏, 林定来, 易婷玉, 林晓晖, 陈荣城, 潘志南, 郑秀芬, 陈文伙
- 80 颅内动脉机械取栓联合颈动脉支架植入治疗颈内动脉串联病变所致急性缺血性脑卒中的疗效分析
蒋群龙, 张 萌, 尹腾昆, 郝继恒, 刘 超, 林 凯, 刘卫东, 崔庆轲, 王继跃, 张利勇
- 87 血管内治疗后循环大血管闭塞急性缺血性脑卒中的临床疗效
王蒙恩, 孙洪扬, 陈 旺, 王 浩, 朱其义, 韩红星, 王贤军

专题报道：脑卒中患者管理及急救护士培训

- 93 血压管理对大血管闭塞急性缺血性脑卒中血管再通患者预后的影响
张 萍, 陈 蕾, 袁 绘, 朱 宣, 沈红健, 于龙娟, 张永巍, 吴 涛, 邓本强, 刘建民
- 100 健康管理网络平台在脑卒中合并高血压患者院外延续性健康管理中的应用
郑 静, 胡欢欢, 郑晓红, 李冬梅, 陆小英, 张玲娟, 张永巍, 杨鹏飞, 李 强, 刘建民
- 105 急性缺血性脑卒中患者感知控制与认知功能关系的横断面研究
刘枝健, 于龙娟, 孔祥静, 金妍婷, 甘丽芬, 李冬梅, 李 娟
- 110 以病例为导向的客观结构化临床考试在卒中急救护士培训中的应用
张 美, 于龙娟, 李冬梅, 陆小英, 张玲娟, 胡 敏, 甘丽芬, 杨鹏飞, 张永巍, 刘建民

海军军医大学(第二军医大学)长海医院脑血管病中心简介(·I·)

致谢《第二军医大学学报》审稿专家(—1—)

《第二军医大学学报》稿约(—I—)

本刊常用缩略词(封三)

本期责任编辑 杨亚红

本期英文编辑 余党会 魏莎莎

本期责任校对 尹 茶 孙 岩 商素芳 魏学丽 魏莎莎

本期中图号标引 孙 岩

[期刊基本参数] CN 31-1001/R * 1980 * m * A4 * 116 * zh + en * P * ¥25.00 * 1500 * 19 * 2022-01

Academic Journal of Second Military Medical University

DI-ER JUNYI DAXUE XUEBAO

Monthly, founded in June 1980 Vol. 43, No. 1 (Gen. No. 389) January 20, 2022

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 © 2022 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

- 1 Strengthen prevention and treatment of stroke and implement national Project to Reduce Millions of New Disabilities
ZHANG Yong-wei, LIU Jian-min
- 5 Construction of regional stroke alliance
PENG Ya

Monographic report: Current status of mechanical thrombectomy beyond time window

- 9 Mechanical thrombectomy for acute ischemic stroke with large vessel occlusion beyond time window: current status
ZHANG Xiao-xi, HUA Wei-long, SHEN Hong-jian, ZHANG Lei, ZHANG Yong-xin, XING Peng-fei, LI Zi-fu, ZHANG Yong-wei, YANG Peng-fei, LIU Jian-min

Monographic report: Exploration of acute stroke treatment processes

- 15 Pre-hospital warning and in-hospital green channel process management of acute ischemic stroke in tertiary first-class hospitals in China: a cross-sectional study
ZHANG Xiao-xi, ZHOU Yi-han, LI Qun, LI Mi, LI Zi-fu, ZHANG Lei, SHEN Hong-jian, ZHANG Yong-wei, YANG Peng-fei, LIU Jian-min
- 23 Standard stroke treatment procedures shortening treatment time for acute ischemic stroke with large vessel occlusion
ZHU Luo-jiang, ZHANG Hong-jian, SHEN Hong-jian, ZHANG Xiao-xi, SHEN Fang, ZHAO Rui, LI Qiang, ZHANG Yong-wei, YANG Peng-fei, LIU Jian-min

Monographic report: Imaging assessment of acute stroke

- 29 Embolism causes and imaging characteristics of patients with embolic stroke of undetermined source
TIAN Bing, HOU Yu-xi, TIAN Xia, WANG Tie-gong, LIU Jian-min, LU Jian-ping
- 35 Prognostic value of hypoperfusion intensity ratio in acute ischemic stroke with large vessel occlusion of anterior circulation after endovascular thrombectomy
SHEN Fang, SHEN Hong-jian, ZHANG Ping, ZHU Xuan, WU Xiong-feng, XING Peng-fei, ZHANG Min-min, ZHANG Yong-wei, WU Tao, DENG Ben-qiang
- 42 Prognostic value of pc-ASPECTS based on CT perfusion in patients with acute ischemic stroke caused by vertebral and basilar artery occlusion
SHEN Hong-jian, SHEN Fang, YIN Wei, XING Peng-fei, LI Zi-fu, ZHANG Lei, LI Qiang, YANG Peng-fei, ZHANG Yong-wei, LIU Jian-min

Monographic report: Intravenous thrombolysis in acute stroke

- 49 Efficacy of intravenous thrombolysis on acute ischemic stroke with different etiology types: a comparative study
ZHU Xuan, ZHANG Min-min, SHEN Hong-jian, SHEN Fang, CHEN Lei, JIANG Yi, YUAN Hui, ZHANG Yong-wei, WU Tao, DENG Ben-qiang
- 55 Efficacy of intravenous thrombolysis for treatment of repeated transient ischemic attack
WU Xiong-feng, YUAN Hui, SHEN Hong-jian, XING Peng-fei, ZHU Xuan, ZHANG Min-min, LIN Huang-bin, ZHANG Yong-wei, WU Tao, DENG Ben-qiang

Monographic report: Endovascular treatment of acute stroke

- 60 Application of step-by-step endovascular treatment strategy in patients with acute intracranial atherosclerosis-large vessel occlusion of anterior circulation
LIU Pei, ZHANG Lei, HUA Wei-long, ZHANG Xiao-xi, LI Zi-fu, XING Peng-fei, ZHANG Yong-wei, YANG Peng-fei, HONG Bo, LIU Jian-min
- 65 Analysis of recanalization techniques for acute large vessel occlusion caused by intracranial atherosclerotic stenosis
CHEN Rong-hua, CAO Jie, ZHU Xu-cheng, SHAO Hua-ming, JIANG Tian-wei, XUAN Jing-gang, PENG Ya
- 72 Carotid artery stenting during procedure of emergency endovascular treatment in patients with carotid artery tandem lesions: a clinical efficacy analysis
WU Yan-min, LIN Ding-lai, YI Ting-yu, LIN Xiao-hui, CHEN Rong-cheng, PAN Zhi-nan, ZHENG Xiu-fen, CHEN Wen-huo
- 80 Mechanical thrombectomy of intracranial artery combined with carotid stent implantation in treatment of acute ischemic stroke caused by tandem lesions of internal carotid artery: an analysis of efficacy
JIANG Qun-long, ZHANG Meng, YIN Teng-kun, HAO Ji-heng, LIU Chao, LIN Kai, LIU Wei-dong, CUI Qing-ke, WANG Ji-yue, ZHANG Li-yong
- 87 Clinical efficacy of endovascular treatment for acute ischemic stroke with large vessel occlusion in posterior circulation
WANG Meng-en, SUN Hong-yang, CHEN Wang, WANG Hao, ZHU Qi-yi, HAN Hong-xing, WANG Xian-jun

Monographic report: Management of stroke patients and training of emergency nurses

- 93 Impact of blood pressure management on prognosis of successful revascularization patients with acute large vessel occlusion ischemic stroke
ZHANG Ping, CHEN Lei, YUAN Hui, ZHU Xuan, SHEN Hong-jian, YU Long-juan, ZHANG Yong-wei, WU Tao, DENG Ben-qiang, LIU Jian-min
- 100 Application of health management network platform on health management of stroke patients with hypertension after discharge
ZHENG Jing, HU Huan-huan, ZHENG Xiao-hong, LI Dong-mei, LU Xiao-ying, ZHANG Ling-juan, ZHANG Yong-wei, YANG Peng-fei, LI Qiang, LIU Jian-min
- 105 Association between perceived control and cognitive function in acute ischemic stroke patients: a cross-sectional study
LIU Zhi-jian, YU Long-juan, KONG Xiang-jing, JIN Yan-ting, GAN Li-fen, LI Dong-mei, LI Juan
- 110 Application of case-oriented objective structured clinical examination in training stroke emergency nurses
ZHANG Mei, YU Long-juan, LI Dong-mei, LU Xiao-ying, ZHANG Ling-juan, HU Min, GAN Li-fen, YANG Peng-fei, ZHANG Yong-wei, LIU Jian-min

Executive editor YANG Ya-hong

English editor YU Dang-hui, WEI Sha-sha

Executive proofreader YIN Cha, SUN Yan, SHANG Su-fang, WEI Xue-li, WEI Sha-sha

Chinese library classification SUN Yan