

Medical Science Journal of Central South China

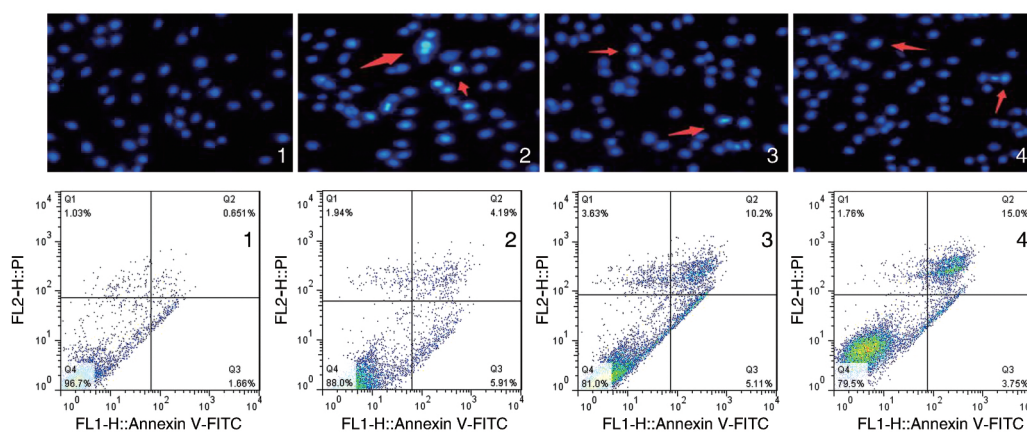
中南医学科学杂志

Zhongnan Yixue Kexue Zazhi

缺氧通过HIF-1 α /PCSK9信号途径诱导神经细胞凋亡

刘录山¹, 邓懿铭¹, 李清²

(1.南华大学心血管疾病研究所 动脉硬化化学湖南省重点实验室 湖南省动脉硬化性疾病国际科技合作与创新联合实验室, 湖南省衡阳市 421001; 2.湖南环境生物职业技术学院病理学教研室, 湖南省衡阳市 421001)



ISSN 2095-1116



9 772095 111213



2021年7月

第4期
第49卷

中南医学科学杂志

ZHONGNAN YIXUE KEXUE ZAZHI

双月刊

1973 年创刊

第 49 卷第 4 期

2021 年 7 月出版

主 管

湖南省教育厅

主 办

南华大学

学术支持单位

衡阳市中心医院

编辑出版

《中南医学科学杂志》编辑部

地址：湖南省衡阳市，南华大学内

邮政编码：421001

电话：0734-8160781

E-mail: znyxkzz@vip.163.com

网址: <http://nhqks.cnjournals.com/yx/>

主 编

文格波

副主编

吴移谋 姜志胜

雷小勇 容益康

编辑部主任

李小玲

广告经营许可证号

4304047440022

印 刷

长沙市和一印刷设备有限公司

发 行

国内：中国邮政集团公司湖南省报刊发行局

国外：中国国际图书贸易集团有限公司

(中国北京 399 信箱,100044)

订 购

全国各地邮局

邮发代号：国内 42-396

国外 Q4353

邮 购

《中南医学科学杂志》编辑部

定 价

每期 10 元,全年 60 元

国际标准连续出版物号

ISSN 2095-1116

国内统一连续出版物号

CN 43-1509/R

本刊若有印刷和装订质量问题，
请向编辑部对换。

目 次

· 特约约稿 ·

缺氧通过 HIF-1 α /PCSK9 信号途径诱导神经细胞凋亡

..... 刘录山, 邓懿铭, 李清(373)

· 基础医学 ·

高特异性心肌肌钙蛋白 I 适配体的 ePCR 技术筛选及其表征

..... 岑 怡, 王仲萍, 柯培雄, 袁中文, 刘晓敏, 严鹏科(379)

古汉养生精对肾阳虚哮喘大鼠表达 P62、TGF- β 1 的影响

..... 肖琳琳, 吴晓玲, 郑鑫莹, 唐康喜, 彭栋梁, 刘 鑫(384)

Apelin-13 对肝细胞癌 HepG2 细胞增殖的影响

..... 何宝凤, 雷俊悦, 曾 奎, 陈雄英, 黄秋林(389)

长沙市某区域大气 PM_{2.5} 中多环芳烃的污染特征分析

..... 苏 莎, 杨 珍, 汪 琼, 李 乐(393)

阿利吉仑通过抑制炎症和凋亡反应改善小鼠心肌缺血再灌注损伤

..... 吴冰璇, 黄淑芬, 吴文超, 黄小凤, 詹 红(397)

以白藜芦醇为结构单元的丹酚酸 A 类似物的合成及其体外抗氧化

作用测定 陈妙佳, 马思明, 李 洋, 贺 芬, 彭俊梅, 唐国涛, 曹 轩(402)

· 临床医学 ·

宫颈癌术后放疗保留卵巢功能的剂量评估

..... 白乘源, 单国平, 程晓龙, 吕晓娟, 李新霞(406)

破壁松花粉联合美沙拉嗪治疗溃疡性结肠炎的疗效及对免疫功能的

影响 罗雯鹏, 李克亚, 陆文洪, 王真权(410)

精准数学模型在肺动脉 CT 成像中的应用

..... 唐智明, 何卫红, 钱其林, 吴小红(414)

EGFR 突变与肺癌手术患者预后关系的 Meta 分析..... 李武德,

胡思琪, 贺胜焜, 刘美玲, 陈立谋, 邓蜀湘, 曹梦悦, 奉水东(418)

经阴道超声自由解剖成像技术联合血清 β -HCG、VEGF 对输卵管妊娠

的诊断价值 徐新华, 胡庆兰, 邵 铃(423)

胰岛素泵强化治疗对初诊 2 型糖尿病患者糖脂代谢及胰岛 β 细胞

功能的影响..... 湛文世, 王 龙, 凌小元, 马米果, 张泰胜(427)

PCT、BNP 联合 APACHE II 评分对呼吸重症监护患者预后的评估价值
 郭庆玲, 冯家华, 梁秋亭(431)

撬拨复位辅助钢板固定治疗跟骨骨折的效果及关节功能恢复分析
 王雪峰, 王江南, 赵宏亮, 曹家俊, 丁少成(435)

干扰素 α -2b 栓联合宫颈环形电切术治疗高危型 HPV 感染的临床疗效
 武丽蕊, 王兰朋, 李红霞, 魏玲(439)

EPLBD 联合 SEST 治疗胆总管结石的疗效及对胆道括约肌功能的影响
 孙敏, 陈光彬, 胡郁之, 代俭华, 孙蕾, 陶绍富(443)

乳腺癌组织中 miR-502 和 HDAC3 表达的相关性及其临床意义
 赵云飞, 何姣, 杨玲, 刘智, 罗启超, 陈茂山(447)

不同剂量地佐辛对吗啡鞘内镇痛的影响 周亚丽, 赵璐, 向竞(452)

中老年精神疾病患者颅内动脉血流动力学的超声学监测 刘燕, 周晓飞(456)

原发性高血压患者 ApoA1/ApoB、体位性血压与颈动脉 As 的关系 刘艳梅(459)

噻托溴铵辅助治疗对 COPD 急性加重期患者 JAK/STAT 通路蛋白及血气指标的影响
 刘苔, 黄海霞, 杜卫祺, 王力军, 马荣炜(464)

百令胶囊联合环孢素 A 治疗肾病综合征疗效及对凝血和免疫功能的影响
 陈岳尧, 周仕群, 符妹丽(468)

2 型糖尿病患者不同体质量指数与尿白蛋白肌酐比的相关性 洪燕青(473)

无抽搐性电休克联合抗精神药物对复发精神分裂症急性期患者的临床疗效
 李群, 黄呈隆, 蒙淑琼, 周超然(477)

右半结肠癌根治术后腹腔淋巴漏的危险因素分析
 张洪志, 任远, 姚国忠, 吴建军, 周云海(481)

· 健康与护理 ·

个体化认知行为干预联合 SBAR 沟通模式对前列腺癌术前化疗患者的心理应激反应及自我效能感的影响
 樊荣, 蒋玉梅, 高慧敏, 谢宏俊(485)

· 文献综述 ·

几种常见天然化合物对 ABCA1 表达影响的研究进展 廖凌骁, 龚朵, 周玉生, 唐朝克(489)

细胞焦亡与脑卒中关系的研究进展 唐琼燕, 陈勇军(493)

■ 读者 · 作者 · 编者

更正启示 (472)

Medical Science Journal of Central South China

Bimonthly, Established in 1973

Volume 49, Number 4

July, 2021

Responsible Institution

Department of Education of
Hunan Province

Sponsoring Institution

University of South China

Academic Support Unit

Central Hospital of Hengyang

Editor and Publisher

Editorial Staff of Medical
Science Journal of Central
South China

University of South China,
Hengyang, Hunan 421001, China
Tel: 0734-8160781
E-mail: znyxkzz@vip.163.com
http://nhqks.cnjournals.com/yx/

Editor-in-chief

WEN Gebo

Associate Editor-in-chief

WU Yimou JIANG Zhisheng
LEI Xiaoyong RONG Yikang

Managing Director

LI Xiaoling

Printing

Changsha Heyi Printing Equipment
Co., Ltd.

Overseas Distributor

China International Book
Trading Corporation
P. O. box 399, Beijing, China
Code No. Q4353

Domestic Subscription

Post Office, China
Code No. 42-396

Mail-Order

Editorial Staff of Medical
Science Journal of Central
South China

CSSN

ISSN 2095-1116
CN 43-1509/R

Price

¥ 10.00

This issue was edited by
JIANG Xianglian

CONTENTS

• SPECIAL DRAFT •

Hypoxia induces neuronal apoptosis through HIF-1 α /PCSK9 signaling pathway
..... LIU Lushan, DENG Yiming, LI Qing(373)

• BASIC MEDICINE •

Screening and characterization of high specificity cardiac troponin I aptamers by ePCR
technique CEN Yi, WANG Zhongping,
KE Peixiong, YUAN Zhongwen, LIU Xiaomin, YAN Pengke(379)

The effect of Ancient Han Health Essence on the P62 and TGF- β 1 expression in
asthmatic rats with kidney-yang deficiency XIAO Linlin,
WU Xiaoling, ZHEN Xinying, TANG Kangxi, PENG Dongliang, LIU Xin(384)

The effect of Apelin-13 on the proliferation of HepG2 cells
..... HE Baofeng, LEI Junyue, ZENG Kui, CHEN Xiongying, HUANG Qiulin(389)

Pollution characteristics of PAHs in PM_{2.5} at a district of Changsha
..... SU Sha, YANG Zhen, WANG Qiong, LI Le(393)

Aliskiren protects against myocardial ischemia-reperfusion injury in mice by inhibiting
inflammatory and apoptotic responses WU Bingxuan, HUANG Shufen,
WU Wenchao, HUANG Xiaofeng, ZHAN Hong(397)

Synthesis of salvianolic acid A analogues and determination of the free radical scavenge
activity using resveratrol as the scaffold CHEN Miaojia, MA Simin,
LI Yang, HE Fen, PENG Junmei, TANG Guotao, CAO Xuan(402)

• CLINICAL MEDICINE •

Dose assessment of preserving ovarian function by radiotherapy after cervical cancer
surgery BAI Chengyuan, SHAN Guoping,
CHENG Xiaolong, LYU Xiaojuan, LI Xinxia(406)

Clinical effect of pollen from broken wall pine combined with mesalazine in the treatment
of ulcerative colitis and effect on immune function
..... LUO Wenpeng, LI Keya, LU Wenhong, WANG Zhenquan(410)

Application of precise mathematical model in pulmonary artery CT imaging
..... TANG Zhiming, HE Weihong, QIAN Qilin, WU Xiaohong(414)

A Meta analysis of the correlation between EGFR mutation and prognosis of surgical
patients with lung cancer LI Wude, HU Siqi, HE Shengkun,
LIU Meiling, CHEN Limou, DENG Shuxiang, CAO Mengyue, FENG Shuidong(418)

The diagnostic value of transvaginal ultrasound free anatomical imaging combined
with serum β -HCG and VEGF in tubal pregnancy
..... XU Xinhua, HU Qinglan, SHAO Ling(423)

Effects of intensive insulin pump therapy on glucose and lipid metabolism and islet β -cell
function in newly diagnosed type 2 diabetes mellitus ZHAN Wenshi,
WANG Long, LING Xiaoyuan, MA Migu, ZHANG Taisheng(427)

Value of PCT and BNP combined with APACHE II score in prognosis evaluation of patients in respiratory intensive care unit	<i>GUO Qingling, FENG Jiahua, LIANG Qiuting</i> (431)
Analysis of the effect of the reduction and auxiliary plate fixation on the treatment of calcaneal fracture and the recovery of joint function	<i>WANG Xuefeng, WANG Jiangnan, ZHAO Hongliang, CAO Jiajun, DING Shaocheng</i> (435)
Efficacy analysis of interferon α -2b combined with circular cervical resection in patients with cervicitis complicated with high-risk HPV infection	<i>WU Lirui, WANG Lanpeng, LI Hongxia, WEI Ling</i> (439)
EPLBD combined with SEST in the treatment of choledocholithiasis and its effect on the function of biliary sphincter	<i>SUN Min, CHEN Guangbin, HU Yuzhi, DAI Jianhua, SUN Lei, TAO Shaofu</i> (443)
Correlation of miR-502 and HDAC3 expression in breast cancer tissue and its clinic significance	<i>ZHAO Yunfei, HE Jiao, YANG Ling, LIU Zhi, LUO Qichi, CHEN Maoshan</i> (447)
Effects of different doses of dezocine on morphine intrathecal analgesia	<i>ZHOU Yali, ZHAO Lu, XIANG Jing</i> (452)
Ultrasound diagnosis of intracranial hemodynamics in patients with schizophrenia arterial	<i>LIU Yan, ZHOU Xiaofei</i> (456)
Relationship between ApoA1/ApoB, postural blood pressure and carotid atherosclerosis in patients with essential hypertension	<i>LIU Yanmei</i> (459)
Effect of tiotropium bromide adjuvant therapy on JAK/STAT pathway protein and blood gas index in patients with acute exacerbation of COPD	<i>LIU Tai, HUANG Haixia, DU Weiqi, WANG Lijun, MA Rongwei</i> (464)
Effect of Bailing capsule combined with cyclosporine A on coagulation function and immune function in patients with nephrotic syndrome	<i>CHEN Yueyao, ZHOU Shiqun, FU Meili</i> (468)
Correlation between body mass index and urinary albumin creatinine ratio in patients with type 2 diabetes mellitus	<i>HONG Yanqing</i> (473)
Clinical efficacy of modified electroconvulsive therapy combined with antipsychotics in patients with recurrent schizophrenia at acute stage	<i>LI Qun, HUANG Chenglong, MENG Shuqiong, ZHOU Chaoran</i> (477)
Analysis of risk factors of abdominal lymphorrhagia following radical resection for right colon cancer	<i>ZHANG Hongzhi, REN Yuan, YAO Guozhong, WU Jianjun, ZHOU Yunhai</i> (481)
• HEALTH AND NURSING •	
Effect of individualized cognitive behavior intervention combined with SBAR communication mode on psychological stress response and self-efficacy of patients with prostate cancer undergoing preoperative chemotherapy	<i>FAN Rong, JIANG Yumei, GAO Huimin, XIE Hongjun</i> (485)
• LITERATURE REVIEW •	
Research progress on the effects of several natural compound on ABCA1	<i>LIAO Lingxiao, GONG Duo, ZHOU Yusheng, TANG Chaoke</i> (489)
Research progress on the relationship between pyroptosis and stroke	<i>TANG Qiongyan, CHEN Yongjun</i> (493)