

中国药学会系列期刊

中国科技论文统计源期刊

中国科学引文数据库来源期刊

全国中文核心期刊

美国《化学文摘》收录期刊

世界卫生组织西太区医学索引(WPRIM)收录期刊

ISSN 1001-6821

美国《剑桥科学文摘(自然科学)》来源期刊

《日本科学技术振兴机构数据库》(JST)来源期刊

CN 11-2220/R

美国《乌利希期刊指南(网络版)》收录期刊

中国科协精品科技期刊工程项目资助

美国 Index Medicus(IM, Medline)引用期刊

SCIE引用期刊

中国临床药理学杂志

ZHONGGUO LINCHUANG YAOLIXUE ZAZHI

The Chinese Journal of Clinical Pharmacology

中国临床药理学杂志

第37卷

第14期

第1769-1952页

2021年7月

中国药学会

全国邮局订阅
邮发代号:82-142

ISSN 1001-6821



9 771001 682151



中国药学会
Chinese Pharmaceutical Association

14 2021

《中国临床药理学杂志》第37卷 第14期 (总第340期) Vol. 37 No. 14 (Serial No. 340)

万方数据



主 编
韩启德 院士
常务副主编
单爱莲

中国临床药理学杂志

1985年1月创刊 公开发行

出版日期(半月刊) 每月17, 28日

第37卷 第14期/2021-07-28

主管单位 中国科学技术协会

主办单位 中国药学会

协办单位 北京大学医学部

南方医科大学南方医院

编辑出版 北京大学临床药理研究所

中国临床药理学杂志编辑部

地 址 北京市海淀区学院路38号

邮 编 100191

电 话 (010) 8280 2540

传 真 (010) 6207 2817

E-mail cjcp1985@163.com

科技期刊登记号 CODEN ZLYZE9

国际标准刊号 ISSN 1001-6821

国内统一连续出版物号 CN 11-2220/R

国外发行代号 BM818

邮发代号 82-142

订 阅 全国各地邮局

国内发行 北京市报刊发行局

国外发行 北京市中国国际图书贸易总公司

(北京399信箱, 100044)

副主编 吕 媛, 孙铁英, 李海燕, 赵秀丽

(医学)

副主编 王 睿, 鲁 鸿, 胡 蓓, 崔一民

(临床药理)

副主编 童荣生, 刘丽宏

(临床药学)

副主编 许嘉齐, 李见明

(新药审评)

本期执行编委 许重远

责任编辑 王超群

广告经营许可证 京朝市监广登字20200019号

图文制作 北京一心禾众文化传播有限公司

北京荣康美医药科技有限公司

印 刷 中国文联印刷厂

国内定价 15.00元 全年360.00元

版权所有 不得翻印

目 次

[论著]

• 一致性评价 •

(1771) 盐酸莫西沙星片在中国健康受试者体内的生物等效性研究
陈文静, 欧阳冬生, 黄洁, 等

(1776) 艾司唑仑片在中国健康受试者中的药代动力学及生物等效性研究
刘岳, 刘晓慧, 齐文渊, 等

(1780) 盐酸二甲双胍片在健康受试者中的生物等效性研究
陈璐, 窦晓燕, 李晚斌, 等

(1785) 厄贝沙坦片在中国健康受试者空腹和餐后状态下人体生物等效性研究
梁健, 杨丹丹, 王逸雅, 等

• 临床与基础桥接研究 •

(1790) miR-145靶向调控KLF4参与人骨髓间充质干细胞向血管平滑肌细胞分化过程中的研究
张绍夫, 李航, 向道康

(1794) 虫草素对肝癌HepG2细胞增殖和凋亡的影响
刘佳, 李亚萍, 王泽昊, 等

(1798) miR-641对乳腺癌细胞增殖、迁移和侵袭的影响
张燕萍, 汪静宇, 张琳, 等

(1802) 安石榴苷通过上调磷酸酶及张力蛋白同源物(P_{TEN})基因的表达逆转结肠癌细胞对奥沙利铂的耐药性
陈喆, 邵继华, 何滢

(1806) 山柰酚逆转MCF-7/阿霉素细胞耐药机制研究
阿地力江·萨吾提, 木塔力甫·艾买提, 周文婷, 等

(1811) miR-1271抑制卵巢癌细胞的增殖和转移的研究
周春燕, 范婷婷, 易钢

(1816) 特异性靶向葡萄糖转运-1抑制剂(STF-31)通过影响人睾丸癌细胞I-10线粒体功能对介导细胞死亡的作用
姚越, 张冲, 韩兵, 等

(1820) MicroRNA-192-5p在恶性胸膜间皮瘤中的表达及作用研究
张奇, 江跃全, 王志强, 等

(1823) 己酮可可碱对核因子-κB受体活化因子配基诱导的牙髓间充质干细胞破骨细胞分化功能的抑制作用
李蓓, 杨琳, 高毅, 等

(1828) 胞磷胆碱对新生大鼠缺氧缺血性脑损伤的保护作用机制研究
李柳依, 甘容, 刘俊丹

(1832) 血府逐瘀汤对心肌缺血大鼠外周血内皮祖细胞衰老的作用机制研究
杨沫, 苏畅, 邹蔓妹, 等

(1836) 人参总皂苷对胆管结扎致肝纤维化小鼠氧化应激的影响
黄容, 张元礼, 黄琳艳

(1840) 柴胡皂苷A对大鼠肛肠术后血清白细胞介素-6和肿瘤坏死因子-α的影响
杨娅娟, 席作武

(1842) 沙库巴曲缬沙坦对射血分数降低性心力衰竭患者心力衰竭易损期的疗效
李薇, 高景芳, 贾凡, 等

(1846) 银杏达莫联合丁苯酞治疗缺血性脑卒中后认知功能障碍患者的临床研究
许朝卿, 孙鑫海, 舒龙, 等

(1851) 丁苯酞序贯联合常规药物治疗脑梗死合并颈内动脉中重度狭窄患者的临床研究
张剑, 刘芳怡, 陈源, 等

(1855) 甲苯磺酸瑞马唑仑联合舒芬太尼抑制上消化道内镜置入反应的半数有效剂量
孙虎, 王涛, 陈晓芳, 等

(1859) 谷氨酰胺对老年糖尿病肌少症大鼠肌保护的作用机制研究
解宏卿, 樊锐睿, 方芳, 等

(1864) 重组人生长激素注射液治疗生长激素缺乏症患儿的临床研究
王继锋, 张薇, 马勇

(1867) 系统性红斑狼疮患者血中微小RNA和mRNA表达情况及相互作用的生物信息学分析
徐双艳, 朱芸, 胡瑚, 等

• 研究方法 •

(1870) LC-MS/MS法测定血清样品中甘氨酸的浓度
孙磊, 聂晶, 刘丽慧, 等

(1874) HPLC-MS/MS法测定人血浆中甲氨蝶呤的浓度
董维冲, 赵晓晓, 张学琴, 等

(1878) UPLC-MS/MS法同时测定三七总皂苷中5种皂苷类成分在大鼠血浆中的含量
王亚茹, 商云霞, 尉小慧, 等

• 读者园地 •

(1883) 中药人用经验数据应用的伦理学考量
黎欣盈, 杨忠奇, 唐洪梅, 等

(1887) 桂枝茯苓胶囊国内研究进展的可视化分析
邓书华, 朱秀清, 李璐, 等

• 新药介绍 •

(1890) 治疗儿童Dravet综合征新药Fintepla
何心, 李妍

• 综述 •

(1894) 肉豆蔻酚素对慢性缺血诱导的脑组织损伤调控的研究现状
邱新茹, 崔春爱

(1897) 磷脂酰肌醇3激酶/蛋白激酶B(PI3K/Akt)信号通路参与哮喘气道炎症反应的研究现状
庞亚蓉, 席建宏, 王志旺, 等

(1902) 维生素D干预2型糖尿病机制研究现状
何玉敏, 刘军, 孙晓敏

(1907) 基于血小板功能检测的P2Y₁₂受体拮抗剂个体化治疗研究现状
林佰弟, 方振威, 石秀锦, 等

(1911) 多发性骨髓瘤免疫抑制微环境的研究现状
张小敏, 肖扬

(1915) 基于Wnt/β-catenin信号通路的黄芪皂苷治疗膝骨关节炎机制研究现状
罗春艳, 吴建民, 李宁

(1919) C肽作为糖尿病及骨质疏松治疗新靶点的研究现状
王艺嵘, 汤旭磊, 傅松波, 等

(1923) 肥胖的药物治疗进展
蒋亮, 汤旭磊, 关聪会, 等

(1928) 信号通路及失眠相关性研究进展
李越峰, 吴红伟, 李东辉, 等

(1932) 乙酰半胱氨酸的药理作用与临床应用
杨中润, 王敏, 周莉莉, 等

(1937) 外泌体在肌腱损伤中从诊断到治疗作用的研究现状
王志梦, 林涛, 邱俊, 等

• 药物评价与管理 •

(1941) 我国抗人类免疫缺陷病毒药物临床研发和评价的思考
任怡, 陈霞, 刘丽华, 等

(1947) 抗SARS-CoV-2抗体产品治疗COVID-19的使用建议及临床试验证据
饶亚岚, 于爱平, 王延琳, 等

CONTENTS

Editor-in-chief: HAN Qi-de
Administrative vice chief editor: SHAN Ai-lian

The Chinese Journal of Clinical Pharmacology
Founded in January, 1985
Date of publication: Semimonthly
Vol 37, No.14/28, July 2021

Directed by:
China Association for Science and Technology

Sponsored by: Chinese Pharmaceutical Association
Supporter Supporting Organization Co-sponsor
Co-organizer:
Peking University Health Science Center
Nanfang Hospital, Southern Medical University

Edited and Published by:
Institute of Clinical Pharmacology,
Peking University
Editorial Board of the Chinese Journal
of Clinical Pharmacology
38 Xue Yuan Road, Haidian District
Beijing 100191, China
Tel: 86-10-8280 2540
Fax: 86-10-6207 2817
E-mail: cjcp1985@163.com

CODEN ZLYZE9

ISSN 1001-6821

CN 11-2220/R

Domestic Subscription:

Beijing Post Office Code No. 82-142

Overseas Subscription:

China International Book Trading Corp.
(PO Box Beijing 399, Beijing 100044, China)
Code No. BM818

Associate editor-in-chief

on clinical medicine: LÜ Yuan
SUN Tie-ying
LI Hai-yan
ZHAO Xiu-li

Associate editor-in-chief

on clinical pharmacology: WANG Rui
LU Hong
HU Bei
CUI Yi-min

Associate editor-in-chief

on clinical pharmacy: TONG Rong-sheng
LIU Li-hong

Associate editor-in-chief

on medical administration: XU Jia-qj
LI Jian-ming

Executive editorial board: XU Zhong-yuan

Editor: WANG Chao-qun

Printed by: China Wenlian Printing House

Price: RMB 15.00 Yuan (Domestic)

All Copyrights Reserved

期刊基本参数: CN 11-2220/R*1985*sm*A4*184*zh*P*15.00* *43*2021-07

万方数据

[Original Article]

• Consistency Evaluation •

- (1771) Bioequivalence of moxifloxacin hydrochloride tablets in healthy Chinese subjects CHEN Wen-jing, OUYANG Dong-sheng, HUANG Jie, *et al*
(1776) Pharmacokinetics and bioequivalence studies of two estazolam tablet formulations in Chinese healthy volunteers LIU Yue, LIU Xiao-hui, QI Wen-yuan, *et al*
(1780) Bioequivalence of metformin hydrochloride tablets in healthy subjects CHEN Lu, DOU Xiao-yan, LI Xiao-bin, *et al*
(1785) Bioequivalence of irbesartan tablets in Chinese healthy population under fasting and fed condition LIANG Jian, YANG Dan-dan, WANG Yi-ya, *et al*

• Clinical and Basic Bridging Research •

- (1790) MiR-145 targeting regulation of KLF4 involved in the differentiation of human bone marrow mesenchymal stem cells into vascular smooth muscle cells ZHANG Shao-fu, LI Hang, XIANG Dao-kang
(1794) Effects of cordycepin on the proliferation and apoptosis of hepatocellular carcinoma HepG2 cells LIU Jia, LI Ya-ping, WANG Ze-hao, *et al*
(1798) Effect of miR-641 on breast cancer cell proliferation, migration and invasion ZHANG Yan-ping, WANG Jing-yu, ZHANG Lin, *et al*
(1802) Punicaridin reverses the resistance of colorectal cancer cells to oxaliplatin by up-regulating the expression of phosphate and tension homology deleted on chromosome ten (PTEN) CHEN Zhe, SHAO Ji-hua, HE Qian
(1806) Study on the mechanism of reversal effect of kaempferol on MCF-7/adriamycin cells SAWUTI Adiljiang, MUTALIFU Aimaiti, ZHOU Wen-ting, *et al*
(1811) miR-1271 inhibits the proliferation and metastasis of ovarian cancer cells ZHOU Chun-yan, FAN Ting-ting, YI Gang
(1816) Effect of specific targeting glucose transporter inhibitor (STF-31) on the mediated cell death through affects I-10 mitochondrial function of human testicular cancer cells YAO Yue, ZHANG Chong, HAN Bing, *et al*
(1820) Research on the expression and role of microRNA-192-5p in malignant pleural mesothelioma ZHANG Qi, JIANG Yue-quan, WANG Zhi-qiang, *et al*
(1823) Inhibition effect of pentoxifylline on nuclear factor- κ B receptor activator of nuclear factor- κ B ligand-induced osteoclast differentiation of gingival mesenchymal stem cells LI Bei, YANG Lin, GAO Yi, *et al*
(1828) Protective effects and mechanism of citicoline on hypoxic-ischemic brain damage in neonatal rats LI Liu-yi, GAN Rong, LIU Jun-dan
(1832) Effect and mechanism of Xuefu Zhuyu Decoction on the senescence of peripheral blood endothelial progenitor cells in myocardial ischemia rats YANG Yang, SU Chang, ZOU Man-shu, *et al*
(1836) Effects of total ginsenosides on oxidative stress in hepatic fibrosis induced by bile duct ligation in mice HUANG Rong, ZHANG Yuan-li, HUANG Lin-yan
(1840) Effects of saikosaponin A on serum interleukin-6 and tumor necrosis factor- α after anorectal surgery in rats YANG Ya-juan, XI Zuo-wu
(1842) Effect of sacubitril valsartan on the vulnerable stage of heart failure in patients with heart failure with reduced ejection fraction LI Wei, GAO Jing-fang, JIA Fan, *et al*
(1846) Clinical trial of Ginkgo leaf extract and dipyrindamole combined with butylphthalide in the treatment of patients with cognitive impairment after ischemic stroke XU Chao-qing, SUN Xin-hai, SHU Long, *et al*
(1851) Effect of butylphthalide sequential combined with conventional measures in the treatment of cerebral infarction with moderate to severe internal carotid artery stenosis ZHANG Jian, LIU Fang-yi, CHEN Yuan, *et al*
(1855) Median effective dose of remimazolam tosylate inhibiting responses to upper gastrointestinal endoscopy insertion when combined with sufentanil SUN Hu, WANG Tao, CHEN Xiao-fang, *et al*
(1859) Effect and mechanism of glutamine on the muscle protection of senile diabetic sarcopenia rats XIE Hong-qing, FAN Kai-ru, FANG Pang, *et al*
(1864) Clinical trial of recombinant human growth hormone injection in the treatment of children with growth hormone deficiency WANG Ji-feng, ZHANG Wei, MA Yong
(1867) Bioinformatics analysis of miRNA and mRNA expression and interaction in blood of patients with systemic lupus erythematosus XU Shuang-yan, ZHU Yun, HU Hu, *et al*

- (1870) Determination of cholyglycine in human serum by LC-MS/MS SUN Lei, NIE Jing, LIU Li-hui, *et al*
(1874) HPLC-MS/MS method for the determination of methotrexate concentration in human plasma DONG Wei-chong, ZHAO Xiao-xiao, ZHANG Xue-qin, *et al*
(1878) Simultaneous determination of 5 kinds of saponins in Panax notoginseng saponins in rat plasma by UPLC-MS/MS WANG Ya-ru, SHANG Yun-xia, WEI Xiao-hui, *et al*

• Research Method •

- (1883) Ethical considerations on the application of human experience data of traditional Chinese medicine LI Xin-ying, YANG Zhong-qi, TANG Hong-mei, *et al*
(1887) Visualization analysis of research progress of Guizhi Fuling capsules DENG Shu-hua, ZHU Xiu-qing, LI Lu, *et al*
(1890) Fintepla, a new approved drug for the treatment of dravet syndrome in children HE Xin, LI Yan

• Reader's Field •

- (1894) Research progress of Macelignan in regulating brain injury induced by chronic ischemia QIU Xin-ru, CUI Chun-ai
(1897) Research of phosphatidylinositol 3-kinase (PI3K)/protein kinase B (Akt) signaling pathway involved in airway inflammation of asthma PANG Ya-rong, XI Jian-hong, WANG Zhi-wang, *et al*
(1902) Research progress on the mechanism of vitamin D intervention in type 2 diabetes HE Yu-min, LIU Jun, SUN Xiao-min

• New Drugs introduction •

- (1907) Research progress of individualized antiplatelet therapy of P2Y₁₂ receptor antagonists based on platelet function test LIN Bai-di, FANG Zhen-wei, SHI Xiu-jin, *et al*

• Review •

- (1911) Research progress of immunosuppressive microenvironment in multiple myeloma ZHANG Xiao-min, XIAO Yang
(1915) Advances in the mechanism of astragalus saponin in the treatment of knee osteoarthritis based on Wnt/ β -catenin signaling pathway LUO Chun-yan, WU Jian-min, LI Ning
(1919) Research progress of C-peptide as a new therapeutic target for diabetes mellitus and osteoporosis WANG Yi-rong, TANG Xu-lei, FU Song-bo, *et al*
(1923) Advances in drug therapy for obesity JIANG Liang, TANG Xu-lei, GUAN Cong-hui, *et al*
(1928) Research progress on the relationship between signal pathway and insomnia LI Yue-feng, WU Hong-wei, LI Dong-hui, *et al*
(1932) Pharmacological action and clinical application of acetylcysteine YANG Zhong-lan, WANG Min, ZHOU Li-li, *et al*
(1937) Currents situation of the role of exosomes in tendon injury: from diagnosis to treatment WANG Zhi-meng, LIN Tao, QIU Jun, *et al*

• Drug Evaluation and Administration •

- (1941) Consideration on the clinical development and evaluation of anti-human immunodeficiency virus drugs in China REN Yi, CHEN Xia, LIU Li-hua, *et al*
(1947) Recommendations and clinical trial evidence for use of Anti-SARS-CoV-2 antibody products for the treatment of COVID-19 RAO Ya-lan, YU Ai-ping, WANG Yan-lin, *et al*