

CHINA PHARMACEUTICALS

ISSN 1006 — 4931

CN 50 — 1054/R



中国药业

ZHONGGUO YAOYE

2023年 第32卷 第21期

2023.Vol.32 No.21

半月刊

- ◆ 中国科技核心期刊
- ◆ 中国科技论文统计源期刊
- ◆ RCCSE中国核心学术期刊
- ◆ 《国家科技学术期刊开放平台》收录期刊
- ◆ 《中国学术期刊影响因子年报》统计源期刊
- ◆ CNKI 中国期刊全文数据库收录期刊
- ◆ 中文科技期刊数据库 (VIP) 收录期刊
- ◆ 美国《化学文摘》(CA) 来源期刊
- ◆ 美国《乌利希期刊指南》(UPD) 收录期刊
- ◆ 日本科学技术振兴机构数据库 (JST) 收录期刊
- ◆ 重庆市出版专项资金资助期刊

ISSN 1006-4931



国家药品监督管理局 主管



中国药业

二〇二三年十一月

第三十二卷第二十一期

中国药业杂志社出版

半月刊
1992年1月创刊
2023年11月 第32卷 第21期
(总第592期)
2023年11月5日出版

中国药业

ZHONGGUO YAOYE

CHINA PHARMACEUTICALS

目次

● 药业专论

我国进口药品管理制度对药品检验的影响和启示 王 颖(1)

● 药事管理

新媒体技术在盲人药学科普中的应用调查 张 蕊,郭振军,张 鹏,李 慧,李 倩,周 妍(5)
某院国家组织药品集中采购中选药品与参比制剂药品说明书中贮藏条件研究

..... 裴一涵,毕云彦,张 文,张桂芳(8)

医疗失效模式与效应分析法用于“互联网+”冷链药品配送管理效果分析

..... 胡晨吉,郑明琳,梁蓝芋,王世燕,何璐璐,金朝辉,陈铭鑫,樊 萍(13)

重庆生物医药产业发展现状与对策 徐 进,刘 姝,张 应,李 娜(17)

县域内基层医疗机构药学服务水平提升对策研究 董长江,刘艳鑫,刘 宇,邹 剑(21)

某院复发性阿弗他溃疡药物利用评价 郭 玲,马祝悦,吴萌萌(25)

713名居家糖尿病患者用药依从性分析 冒长青,高 晓,聂莲莲,江 雁,沈卫华,郭 澄(30)

重庆市集中采购药品质量与供应现状及监管建议 蒋 幸,鲁红明(34)

● 药 学 论 著

甲磺酸雷沙吉兰片的生物等效性研究及非酪胺控制饮食条件下对中国健康受试者血压的影响

..... 王 茂,赵巧林,刘小英,沈 浩,游雪丹(40)

基于镇痛作用的金骨莲胶囊生物活性测定方法研究

..... 杨 帅,刘 慧,周家华,周祖英,朱 迪,巩仔鹏,李月婷,郑 林,黄 勇(47)

噬菌体展示库筛选冠状病毒刺突蛋白抗体 范能全,张 玲,钟亚东,严大军,王 琳,彭 兰(50)

鸦胆子油乳对大鼠体内紫杉醇药代动力学的影响 雷珍珍,薛春苗,梁 艳,朱宝琛,曹俊岭(56)

三七茎叶总皂苷抑制七氟醚诱导的海马神经元凋亡机制研究

..... 文 艳,温 旭,李 靖,李 洋,黄先全,刘 康(61)

电子束辐照对诃子中主要活性成分及灭菌效果的影响

..... 汪慧慧,谢和兵,尼玛次仁,张国庆,伍 丽,王彩芬,张继稳(67)

化学药口服固体制剂变更原料药供应商研究流程 王燕敏(73)

$L_9(3^4)$ 正交试验法优选3种静脉用难溶性抗菌药物调配方法

..... 伊迪热斯江·艾力,刘玉花,艾则孜江·艾尔肯,周 静,宋 涵(79)

● 检验检测

高效液相色谱法同时测定马兰中香草酸、阿魏酸和芹菜素含量

..... 杨 宇,江忠敏,倪 玲,王加虎,杨泽荣,刘淑琼,张 美(83)

电感耦合等离子体质谱法测定复方甘草片中重金属和有害元素含量及其风险评估 陈 明,叶小敏(86)

高效液相色谱法同时测定扁蓿颗粒中5种有效成分含量

..... 问 静,石春兰,韩达斌,刘海青,刘安平,李维业,徐文胜,邹存生,刘学良(90)

基于色谱法筛查及验证杞菊地黄口服液液中抑菌剂 吴 芳,王梦琪,罗定强,杨燕子,戴 涌(94)

枳实和枳壳高效液相色谱指纹图谱的建立 李翹翔,黄玉兰,袁常珍,邹欣宴(98)

复方白头翁灌肠液质量标准研究 陈 平,罗晓梅,曾于桦,杨 强,张亚峰,张 鹏(103)
盐酸羟考酮原料药中元素杂质控制方法研究 田向斌,柯 静,王文丽,张晓明(108)

临床研究

丁苯酞联合氟桂利嗪与前庭康复训练治疗前庭性偏头痛疗效观察 朱冠华,许 媛,徐俐文(112)
低分子肝素钙序贯利伐沙班治疗急性肺栓塞临床研究 刘秋红,苏 抗,高海燕,柳锋岩(116)
阿来替尼联合吉西他滨治疗肺腺癌临床研究 兰英美,樊 萍,郑明琳,郭 毅,何璐璐,黄 海,金朝辉(120)
瑞马唑仑复合阿芬太尼麻醉用于肥胖患者无痛胃镜检查效果观察
..... 代文化,刘 玲,石子苑,袁 波,曾 伟,吴 颢(124)
醒脾养儿颗粒联合推拿治疗脾虚型消化不良性腹泻临床观察 陈 曼,李 雯,张 华(128)

药品评价

决奈达隆治疗阵发性 / 持续性心房颤动的快速卫生技术评估
..... 蒋 黎,董文星,王久香,史文慧,郭 蓉,张 喆(132)
基于Granada - II分类法评价利伐沙班用于非瓣膜性心房颤动药物相关问题
..... 张东梅,万丽丽,赵 赟,李星霞,卢 进,张剑萍(138)

药学监护

临床药师参与境外远航途中2例恶性疟疾患者的药学监护
..... 祝绍隆,张海文,崔莹春,钟佳霖,于 佳,刘 涛(142)
基于药物滴速预警规则降低某院输液速度相关不良反应发生率的药学实践
..... 路小寒,梁 昕,张 琰,王亚琦,袁海玲(145)

综 述

注意缺陷多动障碍发病机制及治疗药物研究进展 韩慧玲,张杉杉,陈芙蓉,宫 辰,周福军(149)



中国标准连续出版物号 ISSN 1006-4931
CN 50-1054/R

主管单位 国家药品监督管理局
北京市西城区展览路北露园1号,100037
主办单位 重庆市药品监督管理局
重庆市渝北区食品城大道27号,401120
出版单位 中国药业杂志社
重庆市渝中区长江一路61号地产大厦
1号楼19层,400014
印刷单位 重庆市国丰印务有限责任公司
重庆市巴南区金竹工业园区金竹街36号,401320

国内发行 中国邮政集团公司重庆市分公司
重庆市渝中区嘉陵桥西村83号,400015
国外发行 中国国际图书贸易集团有限公司
北京市海淀区车公庄西路35号,100048
邮发代号 国内 78-130 国外 SM 5135
全国各地邮局(所)均可订阅
定 价 每册 10.00 元,全年 240 元
广告经营许可证号 (渝中市监)广登字(2020)第002号
开户银行 交通银行重庆渝中支行
账 号 500102120010149000795

顾 问 齐谋甲 樊代明 刘昌孝
主任委员 陈忠子
副主任委员 赵 勇 胡 欣 王晓波 史录文 吕迁洲
高 申 蒋学华 邵 蓉 缪丽燕 童荣生
张伶俐 林能明 张晓坚 苏乐群 陈勇川
张 蓉 李 健 绳金房 封卫毅 吴建龙
赵春景 黄富宏 徐维平 汤 华

总 编 辑 马 劲
荣 誉 主 编 张鹤镛
主 编 刘 斌
执行主编 郭 澄 夏培元 文爱东 徐 珽
副 主 编 赵志刚 葛卫红 邱 峰 赵荣生 张 健
沈爱宗 王婧雯 赖伟华 周本杰 卞晓岚
刘松青 叶 云 陈剑鸿 蓝 柯 王 凌
枉 前 王永庆

电 话 023-86592565
在线投稿 <http://www.zhongguoyaoye023.com>

声 明

1. 本刊刊发文章不代表本刊观点,版权归中国药业杂志社所有。未经授权,其他任何机构、个人不得转载、摘编。
2. 本刊被中国知网、万方数据、维普资讯等数据库和本刊网站全文收录,作者稿酬包括上述数据库和网站的使用报酬。若作者不同意收录,请在来稿时声明,以便妥善处理。
3. 本刊稿酬有现金和转赠《中国药业》两种支付方式,投稿本刊即视为同意本刊稿酬支付标准和支付方式。需现金支付稿酬的作者,请务必在投稿时声明或在论文刊发前来电来函告知。若无特殊声明,论文发表3月内,本刊将据其稿酬金额自动转赠《中国药业》杂志。

期刊基本参数: CN 50-1054/R * 1992 * s * A4 * 154 * zh * P * ¥ 10.00 * * 34 * 2023-21

本期责任编辑 王海英 责任校对 陈 园 英文编辑 张小林

China Pharmaceuticals

November 5, 2023 Volume 32 – Number 21

Contents

◆ Monograph on Pharmaceutical Industry

Influence and Enlightenment of China's Imported Drug Management System on Drug Inspection
..... WANG Ying(1)

◆ Pharmaceutical Administration

Investigation on the Application of New Media Technology in the Pharmaceutical Science Popularization
for Blind People ZHANG Rui, GUO Zhenjun, ZHANG Peng, LI Hui, LI Qian, ZHOU Yan(5)

Comparative Study of Storage Conditions of Bid – Winning Drugs in the National Centralized Drug
Procurement and Reference Preparations in a Hospital
..... PEI Yihan, BI Yunyan, ZHANG Wen, ZHANG Guifang(8)

Application Effect of Healthcare Failure Mode and Effects Analysis in "Internet + " Cold Chain Drug
Delivery Risk Management HU Chenji, ZHENG Minglin, LIANG Lanyu,
WANG Shiyan, HE Lulu, JIN Zhaozhui, CHEN Mingxin, FAN Ping(13)

Current Status and Countermeasure of Bio – Pharmaceutical Industry Development in Chongqing
..... XU Jin, LIU Shu, ZHANG Ying, LI Na(17)

Strategies for Improving the Pharmaceutical Care Level of County – Level Grassroots
Medical Institutions DONG Changjiang, LIU Yanxin, LIU Yu, ZOU Jian(21)

Drug Utilization Evaluation of Drugs for the Treatment of Recurrent Aphthous Ulcer in a Hospital
..... GUO Ling, MA Zhuoyue, WU Mengmeng(25)

Medication Compliance of 713 Home – Based Diabetic Patients
..... MAO Changqing, GAO Xiao, NIE Lianlian, JIANG Yan, SHEN Weihua, GUO Cheng(30)

Quality, Supply Status and Regulatory Suggestions for Centralized Drug Procurement in Chongqing
..... JIANG Xing, LU Hongming(34)

◆ Pharmacy Articles

Bioequivalence Study of Rasagiline Mesylate Tablets and Effect of Tyramine – Uncontrolled Diet on
Blood Pressure in Chinese Healthy Volunteers
..... WANG Mao, ZHAO Qiaolin, LIU Xiaoying, SHEN Hao, YOU Xuedan(40)

Bioactivity Assay Method for Jingulian Capsules Based on Analgesic Effect
..... YANG Shuai, LIU Hui, ZHOU Jiahua, ZHOU Zuying, ZHU Di, GONG Zipeng,
LI Yueting, ZHENG Lin, HUANG Yong(47)

Phage Display Library – Based Screening of Anti – Coronavirus Spike Protein Antibodies
..... FAN Nengquan, ZHANG Ling, ZHONG Yadong, YAN Dajun, WANG Lin, PENG Lan(50)

Effect of Brucea Javanica Oil Emulsion on the Pharmacokinetics of Paclitaxel in Rats *in Vivo*
..... LEI Zhenzhen, XUE Chunmiao, LIANG Yan, ZHU Baochen, CAO Junling(56)

Mechanism of Stem – Leaf Saponins from *Panax Notoginseng* Inhibiting Sevoflurane – Induced
Neuronal Apoptosis WEN Yan, WEN Xu, LI Jing, LI Yang, HUANG Xianquan, LIU Kang(61)

Effect of Electron Beam Irradiation on Main Active Ingredients and Sterilization Effect of Terminaliae
Chebulae Fructus WANG Huihui, XIE Hebing, NIMACI Ren, ZHANG Guoqing,
WU Li, WANG Caifen, ZHANG Jiwen(67)

Research Process of Changing the Supplier of Active Pharmaceutical Ingredients for Oral Solid
Preparation of Chemical Drugs WANG Yanmin(73)

Optimization of Solution Preparation Methods of Three Intravenous Insoluble Antibacterial Drugs by
the $L_9(3^4)$ Orthogonal Test Yidiesijiang AILI, LIU Yuhua, Aizezijiang AIERKEN, ZHOU Jing, SONG Han(79)

◆ Inspection and Test

Content Determination of Vanillic Acid, Ferulic Acid and Apigenin in *Kalimeris Indica* by HPLC
..... YANG Yu, JIANG Zhongmin, NI Ling, WANG Jiahu, YANG Zerong, LIU Shuqiong, ZHANG Mei(83)

Content Determination and Risk Assessment of Heavy Metals and Harmful Elements in Compound
Licorice Tablets by ICP – MS CHEN Ming, YE Xiaomin(86)

Simultaneous Determination of Five Components in Bianlei Granules by HPLC
..... WEN Jing, SHI Chunlan, HAN Dabin, LIU Haiqing, LIU Anping, LI Weiye,
XU Wensheng, ZOU Cunsheng, LIU Xueliang(90)

Screening and Verification of Bacteriostatic Agents in Qiju Dihuang Oral Liquid by Chromatography
..... WU Fang, WANG Mengqi, LUO Dingqiang, YANG Yanzi, DAI Yong(94)

Establishment of HPLC Fingerprints of Aurantii Fructus Immaturus and Aurantii Fructus
..... LI Chixiang, HUANG Yulan, YUAN Changzhen, ZOU Xinyan(98)

- Quality Standard of Compound Baitouweng Enema Liquid**
..... CHEN Ping, LUO Xiaomei, ZENG Yuhua, YANG Qiang, ZHANG Yafeng, ZHANG Peng(103)
- Quality Control Method of Elemental Impurities in the Active Pharmaceutical Ingredients of Oxycodone Hydrochloride** TIAN Xiangbin, KE Jing, WANG Wenli, ZHANG Xiaoming(108)
- ◆ **Clinical Research**
- Efficacy of Butylphthalide Combined with Flunarizine and Vestibular Rehabilitation Training in the Treatment of Vestibular Migraine** ZHU Guanhua, XU Yuan, XU Liwen(112)
- Clinical Study of Low – Molecular – Weight Heparin Calcium Sequential Rivaroxaban in the Treatment of Acute Pulmonary Embolism** LIU Qihong, SU Kang, GAO Haiyan, LIU Fengyan(116)
- Clinical Study of Alectinib Combined with Gemcitabine in the Treatment of Lung Adenocarcinoma** LAN Yingmei, FAN Ping, ZHENG Minglin, GUO Yi, HE Lulu, HUANG Hai, JIN Zhaohui(120)
- Effect of Remazolam Combined with Alfentanil Anesthesia on Painless Gastroscopy in Obese Patients** DAI Wenhua, LIU Ling, SHI Ziyuan, YUAN Bo, ZENG Wei, WU Mian(124)
- Clinical Observation of Xingpi Yang'er Granules Combined with Massage in the Treatment of Dyspepsia Diarrhea of Spleen – Deficiency Type** CHEN Man, LI Luan, ZHANG Hua(128)
- ◆ **Drug Evaluation**
- Rapid Health Technology Assessment of Deronedarone in the Treatment of Paroxysmal / Persistent Atrial Fibrillation** JIANG Li, DONG Wenxing, WANG Jiuxiang, SHI Wenhui, GUO Rong, ZHANG Zhe(132)
- Evaluation of Drug – Related Problems of Rivaroxaban in Patients with Non – Valvular Atrial Fibrillation Based on Granada – II Classification Method** ZHANG Dongmei, WAN Lili, ZHAO Yun, LI Xingxia, LU Jin, ZHANG Jianping(138)
- ◆ **Pharmaceutical Care**
- Clinical Pharmacists' Participation in Pharmaceutical Care of Two Cases of Malignant Malaria During Overseas Voyages** ZHU Shaolong, ZHANG Haiwen, CUI Yingchun, ZHONG Jialin, YU Jia, LIU Tao(142)
- Pharmaceutical Practice of Infusion Speed Early Warning System in Reducing the Incidence of Infusion Speed – Related Adverse Reactions in a Hospital** LU Xiaohan, LIANG Xin, ZHANG Yan, WANG Yaqi, YUAN Hailing(145)
- ◆ **Review**
- Research Progress on the Pathogenesis and Therapeutic Drugs of Attention Deficit Hyperactivity Disorder** HAN Huiling, ZHANG Shanshan, CHEN Furong, GONG Chen, ZHOU Fujun(149)

 **中国药业**
ZHONGGUO YAOYE

China Standard Serial Numbering ISSN 1006-4931
CN 50-1054/R

Directed by National Medical Products Administration

No.1, Beiluyuan, Zhanlan Road, Xicheng Dist., Beijing, China, 100053

Sponsored by Chongqing Municipal Drug Administration

No.27, Food City Avenue, Yubei Dist., Chongqing, China, 401120

Edited & Published by China Pharmaceuticals Magazine Agency

19th Floor, Building 1, Real Estate Mansion

No.61, Changjiang No.1 St., Yuzhong Dist., Chongqing, China, 400014

Printed by Chongqing Guofeng Printing Co., Ltd.

No.36, Jinzhu St., Jinzhu Industrial Park, Ba'nan Dist., Chongqing, China, 401320

Domestic Distributor

Chongqing Branch of China Post Group

No.83, West Village of Jialingqiao, Yuzhong Dist., Chongqing, China, 400015

Overseas Distributor

China International Book Trading Corporation

No.35, West Road of Chegongzhuang, Haidian Dist., Beijing, China, 100048

Domestic Code No. 78-130 Overseas Code No. SM 5135

Price ¥ 10.00 for each book, ¥ 240 for whole year

Bank of Deposit

Chongqing Yuzhong Subbranch of Bank of Communications

Account Number 500102120010149000795

Consultants Qi Moujia Fan Daiming Liu Changxiao

Director of the Editorial Board Chen Zhongyu

Deputy Director of the Editorial Board

Zhao Yong Hu Xin Wang Xiaobo

Shi Luwen Lyu Qianzhou Gao Shen

Jiang Xuehua Shao Rong Miao Liyan

Tong Rongsheng Zhang Lingli Lin Nengming

Zhang Xiaojian Su Lequn Chen Yongchuan

Zhang Rong Li Jian Sheng Jinfang

Feng Weiyi Wu Jianlong Zhao Chunjing

Huang Fuhong Xu Weiping Tang Hua

General Editor Ma Jin

Honorary Editor – in – Chief Zhang Heyong

Editor – in – Chief Liu Bin

Executive Editors – in – Chief

Guo Cheng Xia Peiyuan

Wen Aidong Xu Ting

Deputy Editors – in – Chief

Zhao Zhigang Ge Weihong Qiu Feng

Zhao Rongsheng Zhang Jian Shen Aizong

Wang Jingwen Lai Weihua Zhou Benjie

Bian Xiaolan Liu Songqing Ye Yun

Chen Jianhong Lan Ke Wang Ling

Wang Qian Wang Yongqing

Tel 023-86592565

Web <http://www.zhongguoyaoye023.com>

Executive Editor Wang Haiying

Executive Proofreader Chen Nan

English Editor Zhang Xiaolin



广东省肠道微生物生态制剂 企业重点实验室

国家高新技术企业

国家十二五重大新药创新项目承担单位

广东省食品药品放心工程示范基地

深圳市重大项目承担单位



和安®

复方氨基酸胶囊 (8-11)

和爽®
HE HUANG

复方氨基酸电解质散 (II)

爱伦多® ELENAL

肠内营养粉剂 (AA)

新红康®

红霉素肠溶胶囊

和胜®

复方氨基酸颗粒 (9AA)

小芯干®

膳食纤维氨基酸固体饮料

万和威力特®

果糖氨基酸粉固体饮料

万和活君®

益生菌低聚糖珠

万和和春®

胶原蛋白肽弹性蛋白肽固体饮料

万和绿艾斯®

蛋白质膳食纤维固体饮料 II