

半月刊
1992年1月创刊
2026年2月 第35卷 第3期
(总第646期)
2026年2月5日出版

中国药业

ZHONGGUO YAOYE

CHINA PHARMACEUTICALS

目次

药业专论

新型血红蛋白变构效应物肌醇三焦磷酸盐研究进展 王月, 郭思瑞, 王晶, 王斯文, 金鹏飞(1)

药事管理

心房颤动合并冠状动脉粥样硬化性心脏病经皮冠脉介入术后利伐沙班与华法林抗凝治疗成本 - 效用分析
..... 欧有权, 黄绮健, 胡云鼎, 吴声振, 徐启明, 张朝阳, 易芷瑶(5)

基于PDCA循环法导师制的药师规范化培训体系探索 王治丹, 王玉霞, 陈昭阳, 董鉴霞(9)

三级库管理模式用于麻醉药品和第一类精神药品管理实践与效果分析 刘清芳, 陈路佳, 孙超, 范开华(14)

热毒宁注射液与痰热清注射液药品不良反应对比分析
..... 海彦娟, 王祥领, 高兴笑, 褚梦雨, 李珊珊, 徐运奎, 郝 飙(22)

2024年度国家药品监督管理局通告不合格化妆品问题分析 李静静, 李尔春, 王苑桃(27)

临床药师参与的“互联网 + 药学”服务模式用于慢性阻塞性肺疾病患者长期用药管理效果分析
..... 崔彦, 李 峥, 马玉蓉, 俞 森, 陈 静(32)

实验室信息管理系统用于药品检验机构样品受理效果分析 杨玉娇, 潘望平, 侯俊杰(36)

药理学论著

层次分析 - 熵权法结合 Box - Behnken 响应面法优选清肺化痰汤提取工艺
..... 刘信秋, 胡传春, 李艳玲, 周萌萌, 王纪伟, 左亚锋(40)

伏立康唑致肝胆系统疾病的 FAERS 药品不良事件风险信号挖掘及毒理机制的网络药理学分析
..... 王红革, 熊 瑞, 马荣临, 孙凤军, 潘 宇(45)

Box - Behnken 响应面法优选贯叶金丝桃中总酚和总黄酮提取工艺
..... 周 坤, 马 良, 刘春芳, 郭岳瀚, 陈 慧(54)

基于 I κ B / TNF / MMP9 途径探讨益肾壮腰丸治疗骨质疏松症的作用机制
..... 陈长贤, 黄鸣清, 蔡建峰, 黄秋萍, 杨真真(60)

利尿消炎合剂提取工艺优选 张 飞, 高 珊, 李卓亚, 刘锐锋, 赵伟国(73)

液相色谱串联质谱法测定人血浆中巴洛沙韦酸浓度
..... 何文娟, 崔文彦, 安雪松, 张心慧, 李梦豪, 李德强, 刘秀菊(76)

检验检测

电感耦合等离子体质谱法检测盐酸赖氨酸与醋酸赖氨酸原料药中 11 种元素杂质 邹小娟, 吴雪松(80)

基于高效液相色谱多指标成分分析的化学计量学评价补气养血颗粒质量
..... 陈 填, 魏谭军, 陈 飞, 王春龙, 魏 旭, 赵圣艳(85)

高效液相色谱法同时测定小儿四维葡钙片中 6 种成分含量 夏方亮, 顾晶晶, 王建强, 曹洪杰, 雷永艳(91)

高效液相色谱法测定脂质体制剂中依地酸二钠含量 许风伟, 叶 露, 罗钟明, 马润青(97)

临床研究

- 卡维地洛联合凝血酶对肝硬化伴急性上消化道出血患者门静脉血流量、脾静脉血流量及凝血功能的影响
..... 沈浩,赵飞,王帮平(100)
- 散结镇痛胶囊联合左炔诺孕酮宫内缓释节育系统治疗子宫腺肌病临床研究
..... 陈琪,王晴,胡军武,张蓓(104)
- 化癥通络法通过调控Janus激酶2 / 信号转导与转录激活因子3信号通路介导的炎性反应治疗慢性萎缩性胃炎临床研究 陈晓,刘春倩,刘银鸿(108)
- 甲氧氯普胺联合铝碳酸镁治疗妊娠剧吐临床研究 王新月,霍森焱,高妍,高敏,赵瑞豪(112)
- 罗哌卡因局部浸润辅助全身麻醉对脊柱手术患者术后疼痛与快速康复的影响
..... 张利强,冉丽,叶和,熊洋(116)

药品评价

- 5种心律失常治疗用益气养阴类中成药的卫生技术评估 马娟娟,鞠晓宇,程月召,陈丽娜,程杰(121)
- 基于FAERS的药物致Stevens - Johnson综合征和中毒性表皮坏死松解症不良事件信号挖掘
..... 张艳,王明芳,王晓蕾,王佳佳,王金玉(127)

药学监护

- 基于MCDEX数据库的口服降血糖药药物相互作用特征分析 孙嘉婧,王洪贵,李小梅,赵雪丽(134)
- 罂粟碱致药品不良反应的影响因素分析与预测模型构建 丁萍,金亮,陈震,张旺(138)

综述

- 基于循证医学证据的葡萄糖酸钙配伍禁忌研究进展及管理策略 关金香,曹扬,李春莉,陈志美(142)
- 胰高血糖素样肽 - 1受体激动剂的作用机制及临床应用研究进展 高丹,陈潇,程丽萍(146)



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

主管单位 中华人民共和国教育部
主办单位 西南大学
出版单位 《中国药业》编辑部
重庆市北碚区天生路2号 西南大学出版社,400715
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 上海浦东发展银行股份有限公司重庆北碚支行
账号 83230078801900001792

顾问 樊代明
主任委员 葛信勇
副主任委员 王岳 文爱东 左笑丛 史录文 吕迁洲
张安 张蓉 张发钧 张伶俐 陆涛
陈万生 陈地龙 邵蓉 林能明 赵荣生
胡欣 高申 曹力 蒋学华 缪丽燕

总编辑 马劲
主编 刘斌
执行主编 郭澄 夏培元
副主编 王永庆 王婧雯 卞晓岚 刘耀 刘茂柏
李晓宇 岑远明 邱峰 何金汗 沈爱宗
张陈 张健 枉前 罗雷 金鹏飞
周本杰 赵志刚 胡幼红 贾运涛 钱妍
黄欣 黄景彬 赖伟华

(副主任委员、副主编署名以姓氏笔画为序)

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》2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个月内,本刊将根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 * * zh * P * ¥ 10.00 * * 29 * 2026 - 03

本期责任编辑 张小林 王海英 **责任校对** 温欣 **英文编辑** 张小林

China Pharmaceuticals

February 5, 2026 Volume 35 – Number 3

Contents

◆ *Monograph on Pharmaceutical Industry*

Research Progress of the Novel Hemoglobin Allosteric Effector *Myo* – Inositol Trispyrophosphate
..... WANG Yue, GUO Sirui, WANG Jing, WANG Siwen, JIN Pengfei(1)

◆ *Pharmaceutical Administration*

Cost – Utility Analysis of Rivaroxaban and Warfarin for Anticoagulant Therapy in Patients with Atrial Fibrillation and Coronary Heart Disease After Percutaneous Coronary Intervention
..... OU Youquan, HUANG Qijian, HU Yunding, WU Shengzhen, XU Qiming, ZHANG Chaoyang, YI Zhiyao(5)

Exploration of PDCA Cycle Combined with the Tutorial System in the Standardized Training System for Pharmacists..... WANG Zhidan, WANG Yuxia, CHEN Zhaoyang, DONG Jianxia(9)

Implementation and Effectiveness of a Three – Level Inventory Management System for Narcotic Drugs and Category I Psychotropic Substances LIU Qingfang, CHEN Lujia, SUN Chao, FAN Kaihua(14)

Comparative Analysis of Adverse Drug Reactions Between Reduning Injection and Tanreqing Injection
..... HAI Yanjuan, WANG Xiangling, GAO Xingxiao, CHU Mengyu, LI Shanshan, XU Yunkui, HAO Biao(22)

Problems Analysis of Unqualified Cosmetics Announced by the National Medical Products Administration in 2024..... LI Jingjing, LI Erchun, WANG Yuantao(27)

Effect of "Internet + Pharmacy" Service Model Participated by Clinical Pharmacists in Long – Term Medication Management of Patients with Chronic Obstructive Pulmonary Disease
..... CUI Yan, LI Zheng, MA Yurong, YU Miao, CHEN Jing(32)

Application Effect of Laboratory Information Management System in Sample Acceptance of Drug Control Institutions YANG Yujiao, PAN Wangping, HOU Junjie(36)

◆ *Pharmacy Articles*

Optimization of Extraction Process of Qingfei Huatan Decoction Based on Analytic Hierarchy Process – Entropy Weight Method Combined with Box – Behnken Response Surface Methodology
..... LIU Xinqiu, HU Chuanchun, LI Yanling, ZHOU Mengmeng, WANG Jiwei, ZUO Yafeng(40)

Risk Signal Mining of Voriconazole – Induced Adverse Drug Events in Hepatobiliary System Diseases Based on the FAERS and Network Pharmacology Analysis of Its Toxicological Mechanism
..... WANG Hongping, XIONG Rui, MA Ronglin, SUN Fengjun, PAN Yu(45)

Optimization of Extraction Process of Total Phenols and Total Flavonoids from *Hyperici Perforati* Herba by the Box – Behnken Response Surface Methodology
..... ZHOU Kun, MA Liang, LIU Chunfang, GUO Yuehan, CHEN Hui(54)

Mechanism of Yishen Zhuangyao Pills in the Treatment of Osteoporosis Based on the I κ B / TNF / MMP9 Pathway CHEN Changxian, HUANG Mingqing, CAI Jianfeng, HUANG Qiuping, YANG Zhenzhen(60)

Optimization of Extraction Process of Liniaoxiaoyan Mixture
..... ZHANG Fei, GAO Shan, LI Zhuoya, LIU Ruifeng, ZHAO Weiguo(73)

Concentration Determination of Baloxavir Acid in Human Plasma by LC – MS / MS Method
..... HE Wenjuan, CUI Wenyan, AN Xuesong, ZHANG Xinhui, LI Menghao, LI Deqiang, LIU Xiuju(76)

◆ *Inspection and Test*

Content Determination of 11 Elemental Impurities in Lysine Hydrochloride and Lysine Acetate Active Pharmaceutical Ingredients by ICP – MS ZOU Xiaojuan, WU Xuesong(80)

Quality Evaluation of Buqi Yangxue Granules Based on HPLC Multi – Index Components Combined with Chemometrics CHEN Zhen, WEI Tanjun, CHEN Fei, WANG Chunlong, WEI Xu, ZHAO Shengyan(85)

Content Determination of Six Components in Xiao'er Siwei Pugai Tablets by HPLC
..... XIA Fangliang, GU Jingjing, WANG Jianqiang, CAO Hongjie, LEI Yongyan(91)

Content Determination of Disodium Edetate in Liposomes by HPLC
..... XU Fengwei, YE Lu, LUO Zhongming, MA Runqing(97)

◆ *Clinical Research*

Effect of Carvedilol Combined with Thrombin on Portal Venous Blood Flow, Splenic Venous Blood Flow, and Coagulation Function in Patients with Liver Cirrhosis and Acute Upper Gastrointestinal Bleeding SHEN Hao, ZHAO Fei, WANG Bangping(100)

- Clinical Study of Sanjie Zhitong Capsules Combined with Levonorgestrel – Releasing Intrauterine System in the Treatment of Adenomyosis CHEN Qi, WANG Qing, HU Junwu, ZHANG Bei(104)
- Clinical Study of Huayu Tongluo Method in the Treatment of Chronic Atrophic Gastritis by Regulating JAK2 / STAT3 Signaling Pathway – Mediated Inflammatory Response CHEN Xiao, LIU Chunqian, LIU Yinhong(108)
- Clinical Study of Metoclopramide Combined with Magnesium Aluminum Carbonate in the Treatment of Hyperemesis Gravidarum WANG Xinyue, HUO Senye, GAO Yan, GAO Min, ZHAO Ruihao(112)
- Effect of Ropivacaine Local Infiltration – Assisted General Anesthesia on Postoperative Pain and Enhanced Recovery in Patients Undergoing Spinal Surgery ZHANG Liqiang, RAN Li, YE He, XIONG Yang(116)
- ◆ **Drug Evaluation**
- Health Technology Assessment of Five Qi – Tonic and Yin – Nourishing Chinese Patent Medicines for the Treatment of Arrhythmia MA Juanjuan, JU Xiaoyu, CHENG Yuezhao, CHEN Lina, CHENG Jie(121)
- Signal Mining of Adverse Drug Events of Drug – Induced Stevens – Johnson Syndrome and Toxic Epidermal Necrolysis Based on the FAERS ZHANG Yan, WANG Mingfang, WANG Xiaolei, WANG Jiajia, WANG Jinyu(127)
- ◆ **Pharmaceutical Care**
- Characteristics of Drug – Drug Interactions in Oral Hypoglycemic Drugs Based on the MCDEX Databases SUN Jiajing, WANG Honggui, LI Xiaomei, ZHAO Xueli(134)
- Risk Factors and Predictive Model Construction for Adverse Drug Reactions Induced by Papaverine DING Ping, JIN Liang, CHEN Zhen, ZHANG Wang(138)
- ◆ **Review**
- Research Progress and Management Strategies of Compatibility Contraindications of Calcium Gluconate Based on Evidence – Based Medicine GUAN Jinxiang, CAO Yang, LI Chunli, CHEN Zhimei(142)
- Research Progress of the Mechanism and Clinical Application of Glucagon – Like Peptide – 1 Receptor Agonists GAO Dan, CHEN Xiao, CHENG Liping(146)



China Standard Serial Numbering $\frac{\text{ISSN 1006-4931}}{\text{CN 50-1054/R}}$

Directed by Ministry of Education of the People's Republic of China

Sponsored by Southwest University

Edited & Published by Editorial Department of *China Pharmaceuticals*
Southwest University Publishing Group, No.2 Tiansheng Road, Beibei Dist., Chongqing 400715, China

Printed by Chongqing Guofeng Printing Co., Ltd.
No.36, Jinzhu St., Jinzhu Industrial Park, Banan Dist., Chongqing 401320, China

Domestic Distributor
Chongqing Branch of China Post Group
No.83, West Village of Jialingqiao, Yuzhong Dist., Chongqing 400015, China

Overseas Distributor
China International Book Trading Corporation
No.35, West Road of Chegongzhuang, Haidian Dist., Beijing 100048, China

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

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

Bank of Deposit
Shanghai Pudong Development Bank Co., Ltd. Chongqing Beibei Sub - Branch
Account Number 83230078801900001792

Consultants Fan Daiming
Director of the Editorial Board Ge Xinyong
Deputy Directors of the Editorial Board

Wang Yue	Wen Aidong	Zuo Xiaocong
Shi Luwen	Lyu Qianzhou	Zhang An
Zhang Rong	Zhang Fajun	Zhang Lingli
Lu Tao	Chen Wansheng	Chen Dilong
Shao Rong	Lin Nengming	Zhao Rongsheng
Hu Xin	Gao Shen	Cao Li
Jiang Xuehua	Miao Liyan	

General Editor Ma Jin
Editor – in – Chief Liu Bin
Executive Editors – in – Chief
Guo Cheng Xia Peiyuan

Deputy Editors – in – Chief

Wang Yongqing	Wang Jingwen	Bian Xiaolan
Liu Yao	Liu Maobai	Li Xiaoyu
Cen Yuanming	Qiu Feng	He Jinhan
Shen Aizong	Zhang Chen	Zhang Jian
Wang Qian	Luo Lei	Jin Pengfei
Zhou Benjie	Zhao Zhigang	Hu Youhong
Jia Yuntao	Qian Yan	Huang Xin
Huang Jingbin	Lai Weihua	

Tel 023 – 86592565
Web <http://www.zhongguoyaoye023.com>

Executive Editor Zhang Xiaolin Wang Haiying
Executive Proofreader Wen Xin
English Editor Zhang Xiaolin