

特别关注：



Q K 2 0 4 5 1 6 4

ISSN 1001-5302  
CN 11-2272/R

# 应用卫生技术评估开展中成药临床综合评价

《关于改革完善医疗卫生行业综合监管制度的指导意见》（国办发[2018]63号）指出，强化国家卫生技术评估（HTA）支持力度，发挥HTA在医疗技术、药品、医疗器械等临床准入、规范应用、停用、淘汰等方面的决策支持作用。2019年，国家卫生健康委印发《关于开展药品使用监测和临床综合评价工作的通知》。基于卫生技术评估探索性开展中成药临床综合评价，旨在构建中成药临床综合评价方法体系，将有利于推动中成药再评价工作规范实施。

中  
国  
中  
药  
杂  
志

China Journal of Chinese Materia Medica  
ZHONGGUO ZHONGYAO ZAZHI

2020年8月 第45卷 第16期

2020/16



中医药科技期刊分级目录T1级期刊  
中国中文核心期刊  
中国科技核心期刊  
CSCD来源期刊



中国药学会  
CHINESE PHARMACEUTICAL ASSOCIATION



## 目 次

·专论·

应用卫生技术评估开展中成药临床综合评价

廖星, 郭武栋, 曹庄, 许海玉, 张允岭, 赵晖, 王永炎 ..... (3749)

·综述·

五味子在肝脏疾病防治中的应用及其作用机制研究进展

张雯, 朱雅迪, 张起尧, 马丽娟, 杨凌, 郭文治, 葛广波 ..... (3759)

中药靶向 ER $\alpha$ /ER $\beta$ 的阴阳调和机制及其在绝经期综合征治疗中的应用

赵丕文, 王燕霞, 牛建昭 ..... (3770)

中西药联合用药抗抑郁研究进展

刘欢乐, 卫拂晓, 秦雪梅, 刘晓节 ..... (3776)

中药调控自噬与缺血性心脏病关系的研究进展

辛高杰, 付建华, 李磊, 韩笑, 孟红旭, 赵雨薇, 贾飞凡, 刘建勋 ..... (3784)

佛司可林生物合成研究进展

袁慧仁, 李铭刚, 赵江源, 文孟良, 韩秀林 ..... (3790)

·资源与鉴定·

山沉香结香前后显微组织化学的比较研究

高佳琪, 刘娟, 焦立超, 殷亚方, 柴兴云, 陈苏依勒, 黄璐琦 ..... (3797)

羌活野生和栽培产地土壤水力学性质的对比研究

王红兰, 杨萍, 孙辉, 杜玖珍, 朱文涛, 周毅, 孙洪兵, 蒋舜媛 ..... (3805)

不同光强下种植的紫花地丁对清热作用的影响

史红专, 严晓芦, 郭巧生, 王羿, 杨培芳, 赵田, 刘丽 ..... (3812)

·分子生药学·

酿酒酵母细胞中  $\beta$ -香树脂醇代谢流调控的研究

晁二昆, 钱广涛, 孙梦楚, 苏新亮, 朱智慧, 盛伟, 王彩霞, 薛建平 ..... (3819)

基于叶绿素代谢途径的不同类型厚朴转录组与蛋白质组学研究

魏坦, 晏宇杭, 刘钰萍, 吴清华, 陈江, 裴瑾 ..... (3826)

百蕊草休眠解除前后种胚的转录组分析

张成才, 高真, 罗丽娜, 张子璇, 王将, 卢富华, 向增旭 ..... (3837)

·制剂与炮制·

基于质量源于设计(QbD)理念的淫羊藿素-薏苡仁油微乳制备工艺研究

曾华婷, 郭健, 刘聪燕, 许婷, 李瑞云, 陈彦 ..... (3844)

抗心肌缺血赤芍桔苷组分的各代表性成分药效贡献率评价及其油水分配系数的整体表征

柯仲成, 程小玲, 林传燕, 封亮, 贾晓斌 ..... (3852)

基于顶空-气相色谱-离子迁移谱的生、炙甘草饮片挥发性有机物指纹图谱分析

周倩, 戴衍朋, 郭威, 王平, 石典花 ..... (3857)

电子鼻融合BP神经网络鉴别生、醋广西莪术及姜黄素类成分的含量预测

蓝振威, 季德, 王淑美, 陆兔林, 孟江 ..... (3863)

女贞子与酒女贞子 HPLC 指纹图谱对比研究

张浩杰, 李焕茹, 冯志毅, 李柯, 胡雁萍, 冯素香 ..... (3871)

## HPLC-ELSD 特征图谱分析地黄炮制过程成分变化

张文婷, 何佳, 郭增喜, 石上梅 ..... (3877)

### ·化学·

#### 海螵蛸蛋白质、肽类物质基础研究

刘睿, 魏爽, 王欣之, 程建明, 吴皓 ..... (3883)

#### 基于 UHPLC-QTRAP-MS/MS 的石斛中氨基酸和核苷类成分分析与评价

刘峻麟, 俞年军, 那丽花, 王瑞, 徐君, 彭代银, 童小慧, 欧金梅, 何祥林 ..... (3890)

#### 高灵敏度黄曲霉毒素 B<sub>1</sub> 单克隆抗体的制备及其在中药材酸枣仁污染快速检测中的应用

蒋佳伊, 张磊, 秦露, 骆骄阳, 付延伟, 秦家安, 王长健, 欧阳臻, 杨美华 ..... (3900)

#### 对照亲和超滤液质联用和分子对接技术筛选博落回种子中的 G-四链体配体

高岩, 秦卫卫, 葛跃伟, 孙悦, 严优苟, 曾宇, 王峰 ..... (3908)

### ·药理·

#### 鬼针草水煎液对高脂高糖诱导的小鼠非酒精性脂肪肝的作用及机制研究

高晓乐, 段冷昕, 仇可可, 郭曼琳, 焦叶林, 王冬梅 ..... (3915)

#### 丹酚酸 B 对高糖诱导的大鼠肾小管上皮细胞转分化的影响及其机制研究

孙兰, 田平平, 张帆, 肖瑛, 郭兵 ..... (3922)

#### 藁本内酯对缺糖缺氧/复氧所致 PC12 细胞线粒体分裂的影响

吴倩, 汪宁, 刘娇, 范志国, 王彦翔 ..... (3931)

#### 金银花、山银花抗炎药理作用研究

曾安琪, 华桦, 陈朝荣, 刘俐, 张敏, 罗园, 赵军宁 ..... (3938)

#### 华蟾素辅助顺铂化疗对 H22 肝癌小鼠的抑瘤作用及其相关机制研究

王培培, 王永辉, 王丽森, 吴涛 ..... (3945)

### ·药代动力学·

#### 鼠尾草酸在大鼠体内代谢产物的 UHPLC-Q-Exactive MS 鉴定研究

娄天宇, 马贝贝, 梁耀月, 王晨晓, 刘金辉, 李瑞吉, 于尚玥, 王志斌 ..... (3952)

#### 基于肝脏药物代谢酶研究附子配伍干地黄的减毒机制

李秋红, 单万亭, 鞠爱霞, 赵娇 ..... (3961)

### ·临床·

#### 斑蝥胶囊辅助治疗非小细胞肺癌的 Meta 分析

徐泳, 彭文潘, 韩迪, 冯凡超, 王志超, 顾诚, 周贤梅 ..... (3967)

#### 骨病用药相关肝损伤不良反应流行趋势分析

郜丹, 刘亚蕾, 景婧, 朱敬肖, 牛明, 王伽伯, 肖小河, 李林, 郭玉明, 张兰 ..... (3974)

### ·民族药·

#### “萨日德麻”类蒙古族药品种考证研究

许谨帆, 那木汗, 阿古拉, 晓花, 阿如罕, 张明旭, 娜布其, 张春红, 李曼辉 ..... (3981)

#### 基于数据挖掘蒙古族药传统炮制方法与辅料用法规律研究

张磊, 郭文芳, 梁慧, 朱翔慧, 娜布其, 许谨帆, 张春红, 李曼辉 ..... (3988)

### ·本草考证·

#### 佛手的品种源流及药用食用考

罗思敏, 吴孟华, 周宇, 黄子韩, 张英, 马志国, 曹晖 ..... (3997)

### ·学术探讨·

#### 关于中药注册分类的思考和建议

唐健元 ..... (4004)

#### 关于中药新药研制技术要求的思考和建议

唐健元 ..... (4009)

本期责任编辑:孔晶晶



## CONTENTS IN BRIEF

<b>Study on establishing a methodology of comprehensive clinical evaluation for Chinese patent medicine based on health technology assessment</b>	
LIAO Xing, GUO Wu-dong, CAO Zhuang, XU Hai-yu, ZHANG Yun-ling, ZHAO Hui, WANG Yong-yan .....	(3749)
<b>Research progress in application and mechanism of Schisandrae Chinensis Fructus for prevention and treatment of liver diseases</b>	
ZHANG Wen, ZHU Ya-di, ZHANG Qi-yao, MA Li-juan, YANG Ling, GUO Wen-zhi, GE Guang-bo .....	(3759)
<b>Mechanism of traditional Chinese medicine balancing Yin-Yang by targeting ER<math>\alpha</math>/ER<math>\beta</math> and its application in treatment of menopausal syndrome</b>	
ZHAO Pi-wen, WANG Yan-xia, NIU Jian-zhao .....	(3770)
<b>Research progress in combination applications of antidepressant drugs</b>	
LIU Huan-le, WEI Fu-xiao, QIN Xue-mei, LIU Xiao-jie .....	(3776)
<b>Research progress of traditional Chinese medicine in regulating autophagy and ischemic heart disease</b>	
XIN Gao-jie, FU Jian-hua, LI Lei, HAN Xiao, MENG Hong-xu, ZHAO Yu-wei, JIA Fei-fan, LIU Jian-xun .....	(3784)
<b>Recent advances in biosynthesis of forskolin</b>	
YUAN Hui-ren, LI Ming-gang, ZHAO Jiang-yuan, WEN Meng-liang, HAN Xiu-lin .....	(3790)
<b>Microscopic histochemical comparison during mountain-agarwood formation</b>	
GAO Jia-qi, LIU Juan, JIAO Li-chao, YIN Ya-fang, CHAI Xing-yun, CHEN Su-yi-le, HUANG Lu-qi .....	(3797)
<b>Comparison of soil hydraulic properties in wild and cultivated areas of <i>Notopterygium incisum</i></b>	
WANG Hong-lan, YANG Ping, SUN Hui, DU Jiu-zhen, ZHU Wen-tao, ZHOU Yi, SUN Hong-bing, JIANG Shun-yuan .....	(3805)
<b>Effects of light intensity on cleaning away heat property of <i>Viola yedoensis</i></b>	
SHI Hong-zhuan, YAN Xiao-lu, GUO Qiao-sheng, WANG Yi, YANG Pei-fang, ZHAO Tian, LIU Li .....	(3812)
<b>Regulation of <math>\beta</math>-mercuryl alcohol metabolic flow in <i>Saccharomyces cerevisiae</i> cells</b>	
CHAO Er-kun, QIAN Guang-tao, SUN Meng-chu, SU Xin-yao, ZHU Zhi-hui, SHENG Wei, WANG Cai-xia, XUE Jian-ping .....	(3819)
<b>Comparative transcriptome and proteome profiling of chlorophyll metabolism pathway in four types of <i>Magnolia officinalis</i></b>	
WEI Dan, YAN Yu-hang, LIU Yu-ping, WU Qing-hua, CHEN Jiang, PEI Jin .....	(3826)
<b>Transcriptome analysis of seed embryo in dormancy and dormancy release state of <i>Thesim chinense</i></b>	
ZHANG Cheng-cai, GAO Zhen, LUO Li-na, ZHANG Zi-xuan, WANG Jiang, LU Fu-hua, XIANG Zeng-xu .....	(3837)
<b>Development of preparation process of icaritin-coix seed oil microemulsion based on quality by design concept</b>	
ZENG Hua-ting, GUO Jian, LIU Cong-yan, XU Ting, LI Rui-yun, CHEN Yan .....	(3844)
<b>Characterization of oil/water partition coefficient of chishao terpene glucoside components based on contribution rate of representative components for myocardial ischemia</b>	
KE Zhong-cheng, CHENG Xiao-ling, LIN Chuan-yan, FENG Liang, JIA Xiao-bin .....	(3852)
<b>Analysis of volatile organic compounds (VOCs) fingerprint of raw and honey-fried licorice based on headspace-gas-chromatography ion-mobility spectrometry (HS-GC-IMS)</b>	
ZHOU Qian, DAI Yan-peng, GUO Wei, WANG Ping, SHI Dian-hua .....	(3857)
<b>Identification of curcumin content in raw and vinegar-processed rhizomes of <i>Curcuma kwangsiensis</i> based on electronic nose combined with back propagation neural network</b>	
LAN Zhen-wei, JI De, WANG Shu-mei, LU Tu-lin, MENG Jiang .....	(3863)

<b>Comparative study on HPLC fingerprints between crude and processed Ligustri Lucidi Fructus</b>	
ZHANG Hao-jie, LI Huan-ru, FENG Zhi-yi, LI Ke, HU Yan-ping, FENG Su-xiang .....	(3871)
<b>Ingredients changes in Rehmanniae Radix processing based by HPLC-ELSD specific chromatogram</b>	
ZHANG Wen-ting, HE Jia, GUO Zeng-xi, SHI Shang-mei .....	(3877)
<b>Proteomics and peptidomics analysis of Sepiae Endoconcha</b>	
LIU Rui, WEI Shuang, WANG Xin-zhi, CHENG Jian-ming, WU Hao .....	(3883)
<b>Simultaneous determination and analysis of amino acids and nucleosides in <i>Dendrobium</i> by UHPLC-QTRAP-MS/MS</b>	
LIU Jun-lin, YU Nian-jun, XING Li-hua, WANG Rui, XU Jun, PENG Dai-yin, TONG Xiao-hui, OU Jin-mei, HE Xiang-lin .....	(3890)
<b>Preparation of highly sensitive monoclonal antibody against aflatoxin B<sub>1</sub> and its application in rapid detection of contamination in <i>Ziziphi Spinosa Semen</i></b>	
JIANG Jia-yi, ZHANG Lei, QIN Lu, LUO Jiao-yang, FU Yan-wei, QIN Jia-an, WANG Chang-jian, OUYANG Zhen, YANG Mei-hua .....	(3900)
<b>Screening of G-quadruplex ligands from <i>Macleaya cordata</i> extract by contrast ultrafiltration with liquid chromatography-mass spectrometry and molecular docking</b>	
GAO Yan, QIN Wei-wei, GE Yue-wei, SUN Yue, YAN You-shao, ZENG Yu, WANG Feng .....	(3908)
<b>Effect and mechanism of <i>Bidens pilosa</i> decoction on non-alcoholic fatty liver induced by high fat and high glucose in mice</b>	
GAO Xiao-le, DUAN Leng-xin, QIU Ke-ke, GUO Man-lin, JIAO Ye-lin, WANG Dong-mei .....	(3915)
<b>Effect of salvianolic acid B on high-glucose induced renal tubular epithelial-mesenchymal transition in rats and its mechanism</b>	
SUN Lan, TIAN Ping-ping, ZHANG Fan, XIAO Ying, GUO Bing .....	(3922)
<b>Effect of ligustilide on oxygen and glucose deprivation/reperfusion-induced mitochondria fission in PC12 cells</b>	
WU Qian, WANG Ning, LIU Jiao, MAO Zhi-guo, WANG Yan-xiang .....	(3931)
<b>Comparative study on anti-inflammatory effect of <i>Lonicerae Japonicae Flos</i> and <i>Lonicerae Flos</i></b>	
ZENG An-qi, HUA Hua, CHEN Chao-rong, LIU Li, ZHANG Min, LUO Yuan, ZHAO Jun-ning .....	(3938)
<b>Anti-tumor effect and its related mechanisms of cinobufotalin combined with cisplatin on H22 liver cancer mice</b>	
WANG Pei-pei, WANG Yong-hui, WANG Li-sen, WU Tao .....	(3945)
<b>Analysis of carnosic acid metabolites in rats by UHPLC-Q-Exactive MS</b>	
LOU Tian-yu, MA Bei-bei, LIANG Yao-yue, WANG Chen-xiao, LIU Jin-hui, LI Rui-ji, YU Shang-yue, WANG Zhi-bin .....	(3952)
<b>Detoxification mechanism of Aconiti Lateralis Radix Praeparata combined with dried Rehmanniae Radix based on metabolic enzymes in liver</b>	
LI Qiu-hong, SHAN Wan-ting, JU Ai-xia, ZHAO Jiao .....	(3961)
<b>Meta-analysis of Banmao Capsules in adjuvant treatment for non-small cell lung cancer</b>	
XU Yong, PENG Wen-pan, HAN Di, FENG Fan-chao, WANG Zhi-chao, GU Cheng, ZHOU Xian-mei .....	(3967)
<b>Epidemiological analysis of liver injury related to bone diseases</b>	
GAO Dan, LIU Ya-lei, JING Jing, ZHU Jing-xiao, NIU Ming, WANG Jia-bo, XIAO Xiao-he, LI Lin, GUO Yu-ming, ZHANG Lan .....	(3974)
<b>Variety textual research of Mongolian medicine of "saradma"</b>	
XU Jin-fan, Namuhan, Bo Agula, XIAO hua, Aruhan, ZHANG Ming-xu, Nabuqi, ZHANG Chun-hong, LI Min-hui .....	(3981)
<b>Study on traditional processing method of Mongolian medicine and excipient usage based on data mining</b>	
ZHANG Lei, GUO Wen-fang, LIANG Hui, ZHU Xiang-hui, NA Bu-qi, XU Jin-fan, ZHANG Chun-hong, LI Min-hui .....	(3988)
<b>Herbalogical study on original plant and medicinal and edible values of <i>Citri Sarcodactylis Fructus</i></b>	
LUO Si-min, WU Meng-hua, ZHOU Yu, HUANG Zi-han, ZHANG Ying, MA Zhi-guo, CAO Hui .....	(3997)
<b>Thoughts and suggestions on registration and classification of traditional Chinese medicines</b>	
TANG Jian-yuan .....	(4004)
<b>Suggestions on technical requirements for traditional Chinese medicine new drug research and development</b>	
TANG Jian-yuan .....	(4009)

2020/16

**主 编** 张伯礼  
**主 管** 中国科学技术协会  
**主 办** 中国药学会  
**编辑出版** 中国中药杂志编辑部  
**地 址** 北京市东直门内南小街16号  
**邮 编** 100700  
**电 话** (010) 64087589  
**网 址** <http://www.cjcm.com.cn>  
**邮 箱** cjcm2006@188.com  
**图 文 制 作** 同方知网(北京)技术有限公司  
**印 刷** 山西同方知网印刷有限公司  
**订 阅 发 行** 同方知网(北京)技术有限公司  
**出 版 日 期** 2020年8月15日  
**国际标准连续出版物号** ISSN 1001-5302  
**国内统一连续出版物号** CN 11-2272/R  
**国 内 定 价** 每期50元，全年1200元

# 中国中药杂志

CHINA JOURNAL OF CHINESE MATERIA MEDICA

**Editor-in-Chief**

ZHANG Bo-li

**Responsible Institution**

China Association for Science and Technology

**Sponsored by**

Chinese Pharmaceutical Association

Address: 16 Nanxiaojie, Inner Dongzhimen Beijing 100700, China

Tel: (010) 64087589

E-mail: [cjcm2006@188.com](mailto:cjcm2006@188.com)<http://www.cjcm.com.cn>**Graphics produced by**

Tongfang Knowledge Network Technology Co., Ltd (Beijing)

**Printed by**

Shanxi Tongfang Knowledge Network Printing Co., Ltd.

**Overseas Distributor**

Tongfang Knowledge Network Technology Co., Ltd. (Beijing)

**Publication Date**

August 15, 2020

ISSN 1001-5302 CN 11-2272/R

ISSN 1001-5302



9 771001 530209

国内定价：50.00元