



ISSN 1006-2483
CN 42-1734/R

公共卫生与预防医学

GONGGONG WEISHENG YU YUFANG YIXUE

2020年10月

第31卷

第5期

Oct. 2020

Vol. 31

No. 5

JPHPM

JOURNAL OF PUBLIC HEALTH AND PREVENTIVE MEDICINE

湖北省卫生健康委员会 主管
湖北省预防医学会 主办
湖北省预防医学科学院
湖北省疾病预防控制中心

中国科技论文统计源期刊(中国科技核心期刊)
RCCSE中国核心学术期刊
WHO西太区医学索引(WPRIM)收录
中国学术期刊综合评价数据库统计源期刊
中文科技期刊数据库来源期刊
中国期刊全文数据库全文收录期刊
中文生物医学期刊文献数据库
中国生物医学期刊引文数据库
湖北省第九届、第十届湖北期刊特色栏目奖
2015-2016年度中华预防医学会系列杂志优秀期刊奖
2017-2018年度中华预防医学会系列杂志优秀期刊奖
第十届湖北省优秀期刊



5

2020

ISSN 1006-2483



9 771006 248208

中华预防医学会系列杂志

SERIAL JOURNAL OF CHINESE PREVENTIVE MEDICINE ASSOCIATION

万方数据

公共卫生与预防医学

GONGGONG WEISHENG YU YUFANG YIXUE

双月刊 1990年10月创刊 第31卷 第5期(总第177期) 2020年10月31日出版

主 管

湖北省卫生健康委员会
430079,武汉市洪山区卓刀泉北路39号

主 办

湖北省预防医学会
430079,武汉市洪山区卓刀泉北路35号
湖北省预防医学科学院
430079,武汉市洪山区卓刀泉北路35号
湖北省疾病预防控制中心
430079,武汉市洪山区卓刀泉北路35号

编 辑

公共卫生与预防医学杂志编辑委员会
430079,武汉市洪山区卓刀泉北路35号
电话:(027)87652172
网址:<http://fbyf.ijournals.cn/ggwsyyfyx/home>
E-mail:fbyf@chinajournal.net.cn

主 编

孙昌松

编辑部主任

刘家发

出 版

公共卫生与预防医学杂志编辑委员会
430079,武汉市洪山区卓刀泉北路35号
电话:(027)87652172
E-mail:fbyf@chinajournal.net.cn

广告经营许可证

鄂广登准字(2020)420000031

印 刷

武汉珞南印务有限公司

发 行

国内:湖北报刊发行局

订 购

全国各地邮电局
邮发代号 38-434

邮 购

公共卫生与预防医学杂志编辑部
430079,武汉市洪山区卓刀泉北路35号
电话:(027)87652172
E-mail:fbyf@chinajournal.net.cn

定 价

每期20.00元,全年120.00元

中国标准连续出版物号

ISSN 1006-2483
CN42-1734/R

2020年版权归湖北省预防医学会、中华预防医学会和湖北省疾病预防控制中心共同所有

除非特别声明本刊刊出的所有文章不代表中华预防医学会和本刊编委会的观点
本刊如有印装质量问题,请向本刊编辑部调换

目 次

专家论坛

我国华南地区藁杆双脐螺扩散动力学特性初步研究
…………… 闵凤阳,李石柱,王家生,元艺,郭云海,朱孔贤,章运超(1)

论 著

基于公共网络数据的湖北毗邻六省市新型冠状病毒肺炎疫情分析
…………… 蒋英,张红(6)

新型冠状病毒灭活样品混合进行核酸检测效果分析
…………… 余波,霍细香,汪杨,江永忠(11)

扬州市新型冠状病毒肺炎确诊病例检测结果及影响因素
…………… 董玉颖,王艳,黄瑶,周乐,夏侯鹏,许纯,田婧琴,李秋梅(15)

噬菌体展示技术筛选结核分枝杆菌 PPE17 蛋白的特异性结合肽
…………… 周菁,任易,陈军,陈丽峰(18)

慢性病患者接种流感疫苗的效果与效益评价
…………… 许敏锐,强德仁,潘英姿,石素逸,杨佳成,宗菁,周义红(21)

健康门户在公共卫生服务中的应用及采纳影响因素
…………… 秦梦格,马敬东(25)

天津市学校结核病防控工作分析
…………… 于燕明,张晓萌,张丹,李晓蓉,庞学文(30)

温湿度环境因素对钉螺在野外实验基地生存繁殖的影响
…………… 张聪,易佳,李博,万伦,李凯杰(34)

2017—2019年陕西省不同区域疾控机构水质检测能力现状
…………… 雷佩玉,郑晶利,贾茹,惠晓芬(38)

腹泻病患儿童诺如病毒与轮状病毒流行病学监测
…………… 曹永宁,张学军,陈娜(42)

应用 EPP/Spectrum 模型估计与预测武汉市成人艾滋病疫情
…………… 罗莉,许骏,胡荣,王夏(45)

时空扫描统计量在手足口病聚集性研究中的参数筛选
…………… 刘天,姚梦雷,陈红缨,黄继贵,刘漫,刘红慧,王丽,梅芳盛(49)

上海市金山区1~12岁儿童水痘减毒活疫苗接种情况分析
…………… 田猛,王伟伟,姚红琴,王晶晶,周杰(53)

2013—2018年十堰市哨点医院食源性疾病主动监测数据分析
…………… 李艳丽,程时秀,杨康,高景枝,李玉芳,郑向梅(57)

湖北省疾控机构实验室生活饮用水氨氮检测能力验证结果分析
…………… 彭新福,陈莉,曾明星,孙冬梅,郑朝晖(61)

2004—2018 年荆州市中小学校血防健康教育效果与效益评估	廖强,袁梅枝,王加松,何亮才,田克卿(64)
2019—2020 年成都地区慢性阻塞性肺疾病患病特征及影响因素	黄鑫,王波(68)
学龄儿童尿氟水平与甲状腺结构功能关系	曹立春,袁乃娟,李文凤(72)
2004—2019 年天门市预防控制血吸虫病中长期规划实施效果评估	张卫星,宋爱华,单晓伟(76)
食物过敏对儿童哮喘影响的病例对照	陈昂,王桂兰,刘翔腾(80)
苏州地区慢性阻塞性肺疾病高危人群现状及针对认知误区的措施	徐瑞,王士伟(84)
广州地区学龄前儿童微量元素与营养状况	马宏浩,罗辉,李晖,陈伟业,陈漫霞(88)
2015—2019 年北京通州地区妊娠甲减合并子痫前期流行病学分析	郑凤英,孟文颖,马红梅(92)
徐州市 5~14 岁儿童肥胖发生危险因素及早期干预	赵彤,高莉莉,吴铭(96)
综 述	
SARS - CoV - 2 核酸检测技术及临床应用进展	刘念,卢哲,张国军,姚群峰(100)
耐多药结核病疾病经济负担研究进展	汪成琼,陈玲(105)
高尿酸血症 GWAS 研究进展	徐明珠,徐昕,夏阳,吴琪俊,赵玉虹(109)
调查研究	
乙肝患者发生原发性肝癌的调查及影响因素	林路英(114)
沈阳市高血压合并心衰患者现状及危险因素分析	高强,张良智(118)
2015—2019 年佛山市高明区登革热抗体阳性流行病学特征分析	麦国通,何瑜,陈卓仪(122)
黄石地区 50492 例新生儿 G6PD 缺乏症筛查结果分析	雷琳,张晓宏(125)
2017—2019 年西安地区婴幼儿营养监测及不良风险筛查	罗丹,张楠,刘影(127)
228 例 HBV 阳性孕妇流行病学特征及阻断分析	麦赞,范建辉,叶敏娟(131)
武汉市江岸区老年人高血压控制与肥胖关系	胡艳芳,丁彦培,吕红艳(135)
QuEChERS 气相色谱质谱法测定蔬菜中 22 种农药残留	单美娜,蒲云霞,陈志民,李彬(139)
湖北省市售鸡蛋鸡肉中甲硝唑及禁用药物残留监测分析	纪律,万正杨,杨小波,杨财平,万思丽(143)

(本期责任编辑:杨明亮 本期责任编辑:万美,吴海平)

Responsible Institution

Health Commission of Hubei Province
39 Zhuodaoquan North Street, Hongshan
District, Wuhan 430079, China

Sponsor

Hubei Preventive Medicine Association
35 Zhuodaoquan North Street, Hongshan
District, Wuhan 430079, China

Hubei Provincial Academy of Preventive
Medicine

35 Zhuodaoquan North Street, Hongshan
District, Wuhan 430079, China

Hubei Provincial Center for Disease Control
and Prevention

35 Zhuodaoquan North Street, Hongshan
District, Wuhan 430079, China

Editing

Editorial Board of Public Health and
Preventive Medicine

Editor-in-Chief

SUN Changsong

Managing Director

LIU Jiafa

Publishing

Editorial Office of Public Health and
Preventive Medicine

35 Zhuodaoquan North Street, Hongshan
District, Wuhan 430079, China

Tel.:027-87652172

http://fbyf.ijournals.cn/ggwsyyfyxen/home

Email:fbyf@chinajournal.net.cn

Printing

Wuhan Luonan Printing Co., Ltd.

Distributor

Hubei Distribution Administration of
Newspapers and Periodicals

Mail-Order

Editorial Office of Public Health and
Preventive Medicine

35 Zhuodaoquan North Street, Hongshan
District, Wuhan 430079, China

Tel.:027-87652172

Email:fbyf@chinajournal.net.cn

Fixed Price

20.00 yuan per issue

120.00 yuan per year

CSSN

ISSN 1006-2483

CN42-1734/R

Copyright © 2020 by the Hubei Preventive
Medicine Association, Chinese Preventive
Medicine Association and Hubei Provincial
Center for Disease Control and Prevention

All articles published represent the opinions
of the authors, do not reflect the official policy
of the Chinese Preventive Medicine Association or
the Editorial Board, unless this is clearly
specified.

CONTENTS IN BRIEF

Expert Forum

Preliminary study on the diffusion dynamics characteristics of *Biomphalaria straminea*
in Southern China

..... MIN Fengyang, LI Shizhu, WANG Jiasheng, YUAN Yi, GUO Yunhai,
ZHU Kongxian, ZHANG Yunchao (1)

Original Articles

Analysis of the epidemic of COVID-19 in six neighboring provinces of Hubei based
on the network data

..... JIANG Ying, ZHANG Hong (6)

Impact of pooling of inactivated SARS-CoV-2 samples on nucleic acid detection

..... YU Bo, HUO Xixiang, WANG Yang, JIANG Yongzhong (11)

Analysis of diagnostic results of novel coronavirus pneumonia cases confirmed in
Yangzhou and its influencing factors

..... DONG Yuying, WANG Yan, HUANG Yao, ZHOU Le, TIAN Jingshen,
LI Qiumei (15)

Screening specific binding peptides of Mycobacterium tuberculosis PPE 17 protein by
Phage display technique

..... ZHOU Jing, REN Yi, CHEN Jun, CHEN Lifeng (18)

Effect and cost-benefit of influenza vaccination for patients with chronic diseases

..... XYU Minrui, QIANG Deren, PAN Yingzi, SHI Suyi, YANG Jiacheng,
ZONG Jing, ZHOU Yihong (21)

Application of health portal in public health services and factors influencing its
adoption

..... QIN Mengge, MA Jingdong (25)

Investigation and analysis of tuberculosis prevention and control in schools in Tianjin

..... YU Yanming, ZHANG Xiaomeng, ZHANG Dan, LI Xiaorong,
PANG Xuewen (30)

Effects of the environmental temperature and humidity on the survival and
reproduction of Oncomelania snails in field experimental base

..... ZHANG Cong, YI Jia, LI Bo, WAN Lun, LI Kaijie (34)

Investigation on water quality testing capabilities of disease control institutions in
different regions of Shaanxi Province, 2017-2019

..... LEI Peiyu, ZHENG Jingli, JIA Ru, HUI Xiaofen (38)

Epidemiological surveillance of norovirus and rotavirus in children with diarrhea

..... CAO Yongning, ZHANG Xuejun, CHEN Na (42)

Estimation and prediction of adult AIDS epidemic in Wuhan using EPP/Spectrum
model

..... LUO Li, XYU Jun, HU Rong, WANG Xia (45)

Parameters setting of spatial-temporal scan statistics in the study of hand-foot-and-
mouth disease cluster

..... LIU Tian, YAO Menglei, CHEN Hongying, HUANG Jigui, LIU Man,
LIU Honghui, WANG Li, MEI Fangsheng (49)

- Analysis on vaccination of live attenuated varicella vaccine in children aged 1 – 12 in Jinshan District, Shanghai
 *TIAN Meng, WANG Weiwei, YAO Hongcen, WANG Jingjing, ZHOU Jie*(53)
- Data analysis of active surveillance of foodborne diseases in the sentinel hospital of Shiyan City ,2013 – 2018
 *LI Yanli, CHENG Shixiu, YANG Kang, GAO Jingzhi, LI Yufang, ZHENG Xiangmei*(57)
- Analysis of the verification results of the laboratory ability to detect ammonia nitrogen in drinking water in the CDC in Hubei Province
 *PENG Xinfu, CHEN Li, ZENG Mingxing, SUN Dongmei, ZHENG Zhaohui*(61)
- Effect and benefit evaluation of health education on schistosomiasis control in primary and secondary schools of Jingzhou City ,
 2004 – 2018
 *LIAO Qiang, YUAN Meizhi, WANG Jiasong, HE Liangcai, TIAN Keqing*(64)
- Prevalence characteristics and influencing factors of COPD in Chengdu ,2019 – 2020
 *HUANG Xin, WANG Bo*(68)
- Investigation on the relationship between the urinary fluoride level and structure and function of thyroid in school -age children
 *CAO Lichun, YUAN Naijuan, LI Wenfeng*(72)
- Evaluation on the effectiveness of the implementation of the medium-long-term program for the prevention and control of
 schistosomiasis in Tianmen City ,2004 – 2019
 *ZHANG Weixing, SONG Aihua, SHAN Xiaowei*(76)
- A case-control study on the effect of food allergies on childhood asthma
 *CHEN Ang, WANG Guilan, LIU Xiangteng*(80)
- Investigation on the prevalence of COPD in high -risk population in Suzhou and measures against cognitive misunderstanding
 *XYU Rui, WANG Shiwei*(84)
- Study on the relationships between the levels of trace elements and nutritional status of preschool children in Guangzhou
 *MA Honghao, LUO Hui, LI Hui, CHEN Weiye, CHEN Manxia*(88)
- Epidemiological characteristics of pregnant women with hypothyroidism and preeclampsia in Tongzhou District of Beijing ,2015 – 2019
 *ZHENG Fengying, MENG Wenying, MA Hongmei*(92)
- Risk factors of obesity in children aged 5 – 14 years in Xuzhou and early intervention measures
 *ZHAO Tong, GAO Lili, Wu Ming*(96)

Reviews

- Advances in SARS – CoV – 2 nucleic acid detection technology and clinical application
 *LIU Nian, LU Zhe, ZHANG Guojun, YAO Qunfeng*(100)
- Progress on economic burden of patients with multidrug resistant tuberculosis
 *WANG Chengqiong, CHEN Ling*(105)
- Research progress of GWAS in hyperuricemia
 *XYU Mingzhu, XYU Xin, XIA Yang, WU Qijun, ZHAO Yuhong*(109)

Studies on Investigation

- Investigation of primary liver carcinoma in patients with hepatitis B and its influencing factors
 *LIN Luying*(114)
- Analysis of current status and risk factors of patients with hypertension and heart failure in Shenyang
 *GAO Qiang, ZHANG Liangzhi*(118)
- Epidemiological characteristics of positive dengue antibody tests in Gaoming District of Foshan City ,2015 – 2019
 *MAI Guotong, HE Yu, CHEN Zhuoyi*(122)
- Analysis of screening results of 50492 newborns with G6PD deficiency in Huangshi area
 *LEI Lin, ZHANG Xiaohong*(125)
- Analysis on the nutritional monitoring results of infants and screening for malnutrition risk in Xi 'an area between 2017 – 2019
 *LUO Dan, ZHANG Nan, LIU Ying*(127)
- Epidemiological characteristics and interruption of 228 HBV positive pregnant women
 *MAI Zan, FAN Jianhui, YE Minjuan*(131)
- Analysis of relationship between hypertension control and obesity in the elderly in Jiangnan District ,Wuhan City
 *HU Yanfang, DING Yanpei, LYU Hongyan*(135)
- Determination of 22 pesticide residues in vegetables by QuEChERS -gas chromatography -mass spectromerty
 *SHAN Meina, PU Yunxia, CHEN Zhimin, LI Bin*(139)
- Analysis of metronidazole and prohibited drug residues in chicken and eggs sold in Hubei Province
 *JI Lv, WAN Zhengyang, YANG Xiaobo, YANG Caiping, WAN Sili*(143)