



ISSN 1004-8685
CN 41-1192/R

中国卫生检验杂志

ZHONGGUO WEISHENG JIANYAN ZAZHI

2020年2月 第30卷 第4期 Feb.2020 Vol.30 No.4

CHINESE
JOURNAL OF HEALTH
LABORATORY TECHNOLOGY

国家卫生健康委员会主管
中华预防医学会主办

CJ
HLT

RCCSE 中国核心学术期刊
中国生物医学源期刊
美国化学文摘(CA)源期刊
中国学术期刊综合评价数据库源期刊



中华预防医学会系列杂志
SERIAL JOURNAL OF CHINESE PREVENTIVE MEDICINE ASSOCIATION

4
2020

中国卫生检验杂志

ZHONGGUO WEISHENG JIANYAN ZAZHI

半月刊 1991 年创刊 第 30 卷 第 4 期 2020 年 2 月 25 日出版

主 管

国家卫生健康委员会
100044,北京市西城区西直门外南路 1 号

主 办

中华预防医学会
100021,北京市朝阳区华威里 25 号 5 层

名誉总编

丛玉隆

社长

张绍武

总编

徐英春

总编助理

张 辉

常务副社长

杨 师

副社长

张 甜 姜友珍

副总编 (排名按姓氏笔画排列)

沈立松 李永哲 李桂英 张克荣 张建营
应斌武 郁庆福 林丽开 姜晓峰 徐国宾
程 伟

编辑部主任

杨 锋

编 辑

中国卫生检验杂志编委会

出 版

中国卫生检验杂志社
450003 郑州市经一路 12 号 2288 信箱

编辑部电话

0371-65978342
0371-65968289 (传真)

广告部电话

0371-65998851
15538110112

发 行

国内发行:自办发行
国外发行:中国国际图书贸易总公司
(北京 399 信箱)
国外发行代号:M5752

中国标准连续出版物号

ISSN 1004-8685
CN 41-1192/R

2020 年版权归中国卫生检验杂志社所有

定 价

每期 38 元

目 次

论 著

EV71 抗原检测方法的建立及初步临床应用

..... 杨锡琴,张贺秋,冯晓燕 (385)

自身抗体检测在壮族人群系统性红斑狼疮诊断及病情发展中的意义

..... 劳小霞,马巧蓉,杨志革,等 (388)

碳青霉烯耐药鲍曼不动杆菌生物膜形成能力及成分分析

..... 陈华乐,刘蓬,瞿跃,等 (392)

化妆品中霉菌和酵母菌检测结果的测量不确定度评定

..... 郑萍,丁培,张晓,等 (396)

高通量检测在水厂处理工艺中的应用

..... 吴伟健,孔义军,马薇,等 (399)

各血小板参数检测联合肺炎严重指数评分在重症肺炎患者中的死亡率

预测作用分析 邵婷婷 (402)

支原体菌落形成单位与颜色改变单位定量关系研究

..... 郭大城,马彦民,许玉玲,等 (405)

常务编委 （排名按姓氏笔画排列）

丁家华 于维森 仓公敖
 方赤光 王 旻 王 哲
 王大宁 王志玉 王京宇
 王凯娟 王栩东 毋福海
 冯晓燕 叶能权 汤乃军
 毕永毅 刘玉龙 刘运德
 刘秀梅 刘殿武 吕玉民
 吕昌银 祁建城 任一平
 孙长颢 孙成均 许春向
 陈守建 何建国 何浙生
 何晓青 李 蓉 李 磊
 李明武 李晓虹 陆绍红
 宋宏彬 吴清平 杨 元
 张 蒙 张 曦 张万起
 张贺秋 邹学贤 房中则
 姜庆五 赵 卓 赵雁林
 高永清 贾珍珍 栗文元
 凌文华 栾 燕 徐东群
 曹 佳 晁福寰 崔 巍
 常风启 黄国伟 康 辉
 康维钧 韩玉霞 韩学尧
 曾现伟 窦志勇 溥 萍
 阚 胤 廖百森 裴少军
 裴晓方 谭晓东 熊 英
 潘 慧 冀元棠 穆新林

青年编委 （排名按姓氏笔画排列）

丁 萍 王 硕 牛凌梅
 刘 欢 闫宏远 许宏敏
 汪 川 陈 曦 陈丽丽
 李 妍 李 萌 杨金玲
 杨胜园 邹晓莉 孟佩俊
 徐向东 童叶青

网 址

www.zgwsjy.cn

投稿电子信箱

wsjyzz@126.com

印 刷

河北鑫兆源印刷有限公司

化学测定方法

液质联用多肽识别技术用于龟甲的鉴别研究	刘宇文, 谌宇, 郑娟, 等 (408)
顶空毛细管柱气相色谱法测定生活饮用水中 18 种挥发性卤代烃	王玲, 王雁卿, 王彩云 (410)
超高效液相色谱-串联质谱法检测鸡肉中抗病毒药物残留	张柏瑀, 刘瑜, 李晓东, 等 (414)

微生物检测方法

耐碳青霉烯鲍曼不动杆菌感染的临床特征和同源性分析	曾松芳, 郭美丽, 韩安棣, 等 (416)
儿童呼吸道卡他莫拉菌分离株产 β -内酰胺酶情况和耐药性以及菌株 BRO 酶基因特征	王书平, 王东芳 (420)
骨科患者医院感染病原菌分布及耐药性变迁	方杭, 姚侠, 孙永宁 (424)
132 例铜绿假单胞菌血流感染患者的临床特征及菌株耐药性分析	胡明鹏, 郑周, 陈翔, 等 (428)
提高致泻性大肠埃希菌检出率的研究	朱惠芳, 李春毅, 顾伟超, 等 (432)

临床检验

中孕期血清可溶性血管内皮生长因子受体 1、胎盘生长因子水平及其比值筛查妊娠期高血压疾病的效率 陈益明,卢莎,顾琳媛,等 (434)

血同型半胱氨酸在慢性肾脏病患者中的应用价值 谢海英,郭波尧,包国祥,等 (439)

宁波地区新生儿葡萄糖-6-磷酸脱氢酶缺陷基因型分析与生化比值的方法学比较 潘婕文,鲍幼维,潘小莉,等 (442)

支气管哮喘患儿中性粒细胞胞外诱捕网水平与患者免疫功能及临床预后的关系 陈凯宇,涂林修,陆荣耀 (445)

$\beta 2$ 糖蛋白 I 抗体在缺血性脑卒中的作用研究 刘坦,孟晓峰 (448)

阿尔茨海默病患者免疫功能状态研究 夏伟琴,徐丽芬,缪晓明,等 (451)

广泛耐药性肺结核外周血 T 细胞亚群结构及临床特点分析 林丽红,卢滔,方英 (454)

血清葡萄糖变异性及胰岛素抵抗水平与蛛网膜下腔出血病情及预后的关系 徐意,方晶晶,厉旭光,等 (457)

杭州地区丙型肝炎病毒基因分型及其临床意义的探究 朱艳菊,薛立芝,徐爱芳 (460)

Sanger 测序法分析兰州地区 112 例丙型肝炎患者基因亚型 段正军,李彩东,张旭强,等 (463)

脑梗塞患者部分生化指标与代谢综合征的相关性研究 郭平安,洪亚明,马银丽 (466)

血小板参数在鉴别诊断免疫性血小板减少症和再生障碍性贫血中的作用及其对疗效判断的应用 吴小乐,刘欢乐,郑周,等 (469)

肝癌患者外周血外泌体 mir-25 和 mir-141 表达水平及联合检测诊断效能研究 汪晓华,陈晓军 (472)

调查·监测

疑似有毒饮料的应急检测 张鹏,聂燕敏,丁晓静,等 (475)

宁波市某区农村生活饮用水现状调查及风险因素分析 王奇军,陈懿,陈佩,等 (479)

一起金黄色葡萄球菌食物中毒病原学检测及耐药分析 刘杰,叶海梅,刘秀峰,等 (484)

药厂工作环境中细菌分布与 16SrRNA 测序鉴定 王彬,严斌斌,王国臻,等 (487)

我国省级疾病预防控制中心食品污染物及有害因素检测质量保证和普及程度分析
..... 郭贵阁,王文军,张凡非,等 (490)

2015 年-2018 年临沂市人群布鲁杆菌病监测分析 李成伟,刘祥亮 (493)

2018 年萍乡市食品中化学污染物及有害因素监测结果分析 刘姝,张丰,陈宇 (495)

一起幼儿园鼠伤寒沙门菌食物中毒事件的调查报告 陈艳,邬其欢,李科峰 (499)

2016 年-2018 年肺炎支原体感染在北京市顺义区的流行特征分析 何牧,李湛,李文,等 (502)

2018 年兰溪市食品安全抽检结果分析 李斌,夏立娟,祝剑翊 (506)

上海市金山区地表水中挥发性有机物检测结果分析 季海峰,王丽华,吴云,等 (509)

责任编辑 杨锋 责任校对 刘迪 英文编辑 张蒙 田辉

CHINESE JOURNAL OF HEALTH LABORATORY TECHNOLOGY

Semimonthly Established in 1991, Volume 30 Number 4 February 25, 2020

Managed by

National Health Commission of the People's Republic
of China
No. 1, Xizhimen Wainan Road, Xicheng District, Beijing, 100044

Sponsored by

Chinese Preventive Medicine Association
Floor 5, No. 25 Huaweili, Chaoyang District, Beijing, 100021

Honorary Editor - in - chief

CONG Yu - long

President

ZHANG Shao - wu

Editor - in - chief

XU Ying - chun

Assistant of Chief Editor

ZHANG Hui

Executive Deputy President

YANG Shi

Deputy President

ZHANG Tian, JIANG You - zhen

Deputy Editor -in -chief (in Surname Stroke Order)

SHEN Li - song, LI Yong - zhe, LI Gui - ying,
ZHANG Ke - rong, ZHANG Jian - ying, YING
Bin - wu, YU Qing - fu, LIN Li - kai, JIANG
Xiao - feng, XU Guo - bin, CHENG Wei

Director of Editorial Department

YANG Feng

Edited by

Editorial Board of Chinese Journal of Health Labo-
ratory Technology

Published by

Editorial Department of Chinese Journal of Health
Laboratory Technology
Mailbox 2288, No. 12, Jingyi Road, Zhengzhou, 450003

Editorial office telephone

0371 - 65978342
0371 - 65968289 (Fax)

Advertising department telephone

0371 - 65998851
15538110112

Domestic Distributor

Self - publishing

Overseas Distributor

China International Book Trading Corporation
(P. O. Box 399, Beijing, China)
Code: M5752

Website

www. zgwsjy. cn

E - mail

wsjyzz@126. com

Standard Series Number

ISSN 1004 - 8685
CN 41 - 1192/R

Copyright 2020 by Editorial Department of
Chinese Journal of Health Laboratory Technology

Price

RMB ¥ 38

CONTENTS IN BRIEF

Original Articles

Establishment and preliminary clinical application of EV71 antigen detection

method YANG Xi - qin, ZHANG He - qiu, FENG Xiao - yan (385)

Significance of autoantibody detection in the diagnosis and development of

systemic lupus erythematosus in the Zhuang Population

..... LAO Xiao - xia, MA Qiao - rong, YANG Zhi - ge, *et al* (388)

Quantitative and compositional evaluation of biofilm formation of clinically -

isolated carbapenems - resistant *Acinetobacter baumannii*

..... CHEN Hua - le, LIU Peng, QU Yue, *et al* (392)

Uncertainty evaluation of mould and yeast detection results in cosmetics

..... ZHENG Ping, DING Pei, ZHANG Xiao, *et al* (396)

Application of high - throughput technology in water treatment process

..... WU Wei - jian, KONG Yi - jun, MA Wei, *et al* (399)

Combined detection of platelet parameter and PSI score in predicting the

mortality of patients with severe pneumonia SHAO Ting - ting (402)

Study on quantitative relationship between colony formation unit and color

changing unit for mycoplasma

..... GUO Da - cheng, MA Yan - min, XU Yu - ling, *et al* (405)

Chemical Detection Method

Identification and analysis of tortoise – shell by ultra high performance liquid chromatography – tandem mass spectrometry
..... LIU Yu – wen, CHEN Yu, ZHENG Juan, *et al* (408)

Determination of 18 volatile halogenated hydrocarbons in drinking water by headspace – capillary gas chromatography
..... WANG Ling, WANG Yan – qing, WANG Cai – yun (410)

Determination of antiviral drug residues in chicken by ultra – high performance liquid chromatography tandem mass spectrometry ZHANG Bo – yu, LIU Yu, LI Xiao – dong, *et al* (414)

Microbe Detection Method

Clinical characteristics and homology in carbapenem – resistant *Acinetobacter baumannii* infection
..... ZENG Song – fang, GUO Mei – li, HAN An – di, *et al* (416)

β – lactamase production, drug resistance and BRO gene characteristics of *Moraxella catarrhalis* strain isolated from respiratory tract of children WANG Shu – ping, WANG Dong – fang (420)

Distribution of pathogenic bacteria and changes of drug resistance in hospital infection in orthopaedic patients
..... FANG Hang, YAO Xia, SUN Yong – ning (424)

Clinical characteristics and drug resistance analysis of 132 patients with bloodstream infection by *Pseudomonas aeruginosa* ...
..... HU Ming – peng, ZHENG Zhou, CHEN Xiang, *et al* (428)

Researches on the detection rate of diarrheagenic *Escherichia coli*
..... ZHU Hui – fang, LI Chun – yi, GU Wei – chao, *et al* (432)

Clinical Laboratory Test

Effectiveness of serum soluble vascular endothelial growth factor receptor 1, placental growth factor levels and their ratios in the screening of pregnancy – induced – hypertension CHEN Yi – ming, LU Sha, GU Lin – yuan, *et al* (434)

Application value of blood homocysteine in patients with chronic kidney disease
..... XIE Hai – ying, GUO Bo – yao, BAO Guo – xiang, *et al* (439)

Methodological comparison of G6PD deficiency genotype analysis and biochemical ratio of neonates in Ningbo area
..... PAN Jie – wen, BAO You – wei, PAN Xiao – li, *et al* (442)

Relationship between the level of extracellular trap net of neutrophils and the immune function and the clinical prognosis in children with bronchial asthma	CHEN Kai - yu, TU Lin - xiu, LU Rong - yao (445)
Effect of antibody against beta 2 glycoprotein I on ischemic stroke	LIU Tan, MENG Xiao - feng (448)
Study of immunologic function in patients with Alzheimer's Disease	
.....	XIA Wei - qin, XU Li - fen, MIAO Xiao - ming, <i>et al</i> (451)
Structure and clinical characteristics of peripheral blood T lymphocyte subsets in extensively drug - resistant pulmonary tuberculosis	LIN Li - hong, LU Tao, FANG Ying (454)
Relationship of serum glucose variability and insulin resistance with the condition and prognosis of subarachnoid hemorrhage	
.....	XU Yi, FANG Jing - jing, LI Xu - guang, <i>et al</i> (457)
Classification and clinical significance of hepatitis C gene subtype in Hangzhou area	
.....	ZHU Yan - ju, XUE Li - zhi, XU Ai - fang (460)
Analysis of genetic subtypes of 112 patients with hepatitis C in Lanzhou area by Sanger sequencing	
.....	DUAN Zheng - jun, LI Cai - dong, ZHANG Xu - qiang, <i>et al</i> (463)
Correlation between biochemical indexes and metabolic syndrome in patients with cerebral infarction	
.....	GUO Ping - an, HONG Ya - ming, MA Yin - li (466)
Exploration on the diagnosis and efficacy of platelet parameters in immune thrombocytopenia and aplastic anemia	
.....	WU Xiao - le, LIU Huan - le, ZHENG Zhou, <i>et al</i> (469)
Research on the miR - 25 and miR - 141 levels of peripheral blood exosome in patients with liver cancer and the diagnostic efficiency of combined detection	WANG Xiao - hua, CHEN Xiao - jun (472)
Investigation and Monitoring	
Emergency detection of suspected toxic beverage	ZHANG Peng, NIE Yan - min, DING Xiao - jing, <i>et al</i> (475)
Drinking water quality monitoring and risk factor analysis in rural areas of a district in Ningbo	
.....	WANG Qi - jun, CHEN Yi, CHEN Pei, <i>et al</i> (479)
Pathogenic detection and drug resistance analysis of <i>Staphylococcus aureus</i> from a food poisoning sample	
.....	LIU Jie, YE Hai - mei, LIU Xiu - feng, <i>et al</i> (484)

Bacterial distribution and the sequencing and identification of 16SrRNA in pharmaceutical environment
..... WANG Bin, YAN Bin – bin, WANG Guo – zhen, *et al* (487)

Test quality assurance and popularity analysis of food contaminants and harmful factors in provincial CDC
..... GUO Gui – ge, WANG Wen – jun, ZHANG Fan – fei, *et al* (490)

Surveillance and analysis of human brucellosis in Linyi from 2015 to 2018 LI Cheng – wei, LIU Xiang – liang (493)

Surveillance results analysis of chemical pollutants and harmful factors in food from Pingxiang in 2018
..... LIU Shu, ZHNG Feng, CHEN Yu (495)

Survey of a food poisoning outbreak caused by *Salmonella typhimurium* in a kindergarten
..... CHEN Yan, WU QI – huan, LI Ke – feng (499)

Epidemiological characteristics and analysis of *Mycoplasma pneumoniae* infection in Shunyi District, Beijing during 2016 – 2018
..... HE Mu, LI Zhan, LI Wen, *et al* (502)

Analysis of the random inspection results of food safety in Lanxi City in 2018
..... LI Bin, XIA Li – juan, ZHU Jian – yi (506)

Analysis of volatile organic compounds in surface water of Jinshan District, Shanghai
..... JI Hai – feng, WANG Li – hua, WU Yun, *et al* (509)

Editor in Charge YANG Feng **Proofreader** LIU Di **English Editor** ZHANG Meng TIAN Hui

共同 战“疫”

【外出购物篇】

购物前 做计划
戴口罩 少停留
回家后 手要洗

中宣部宣教局、国家卫生健康委宣传司 指导
中国健康教育中心 制作