



ISSN 1044-8685
CN 41-1192/R

中国卫生检验杂志

ZHONGGUO WEISHENG JIANYAN ZAZHI

2020年1月 第30卷 第2期

Jan.2020 Vol.30 No.2

国家卫生健康委员会主管
中华预防医学会主办

CHINESE
JOURNAL OF HEALTH
LABORATORY TECHNOLOGY

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

2

2020



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

中国卫生检验杂志

ZHONGGUO WEISHENG JIANYAN ZAZHI

半月刊 1991 年创刊 第 30 卷 第 2 期 2020 年 1 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 张建平
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

环丙沙星体外诱导肺炎链球菌耐药机制研究

..... 舒媚,孙爱华,王家学 (129)

血清人附睾蛋白 4、糖链抗原 125 及卵巢恶性肿瘤风险算法在上皮性卵

巢癌二元论分型中的应用价值 王桂业,陈琼,谢奇朋 (132)

上海市闵行区鼠伤寒沙门菌病原学与 PFGE 分型研究

..... 童锐,陈秀华,刘芸,等 (136)

1 544 例儿童患者抗核抗体谱检测结果分析

..... 白伟伟,温怀凯,王颖颖,等 (141)

化学测定方法

液相色谱 - 串联质谱法同时测定饮料中的咖啡因、茶碱和可可碱

..... 翟金晓,高中勇,赛雅雯,等 (144)

全自动流动注射法测定餐(饮)具表面残留阴离子合成洗涤剂

..... 桂婷婷,朱兆中,王慧 (148)

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 王树东 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
常凤启 黄国伟 康 辉
康维钧 韩玉霞 韩学尧
曾现伟 窦志勇 溥 萍
阚 飒 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

换柱测定生活饮用水中亚氯酸盐和氯酸盐的离子色谱法研究

..... 麦浪,杨文迪 (151)

微生物检测方法

食源性相关腹泻患者粪副溶血性弧菌检测结果分析

..... 李宏杰,陈志杭,叶斌,等 (154)

2型糖尿病合并感染患者的肺炎克雷伯菌分布及耐药特征分析

..... 陈蕾,李丽娜,陆斌斌,等 (158)

嘉兴地区2015年-2017年育龄期妇女TORCH感染情况分析

..... 武荣荣,李永祥,周贞,等 (161)

骨科患者医院获得性感染金黄色葡萄球菌的危险因素与耐药性研究

..... 张海明,施立煌,张金喜,等 (164)

综合重症监护病房院内感染病原菌的变迁及耐药性分析

..... 应海焕,边保华 (167)

联合疫苗中白喉类毒素抗原质量控制方法的研究

..... 陈雯,郑梦婷,胡业勤,等 (171)

198例孕前体检和孕产妇分泌物真菌感染病原菌分布和耐药性分析的临

床观察 邓绍团,牛诗琼,胡艺琳,等 (175)

临床检验

外周血单核细胞 CD11b 表达在不稳定性心绞痛诊断中的意义 林靛, 阎蓉, 周亚萍, 等 (179)

急性白血病患者免疫指标、凝血指标、基质衍生因子-1 α 及乳酸脱氢酶的检测及其临床意义
..... 冯爱梅, 赵朴, 徐钰, 等 (183)

乙型肝炎病毒 x 蛋白抗体及细胞因子在乙型肝炎和肝癌患者中的意义 段正军, 李彩东, 杨勇卫, 等 (186)

胃蛋白酶原联合幽门螺杆菌对早期胃癌筛查的价值 林艳, 吕小锦, 马玲敏, 等 (189)

TCF7L2 基因多态性与糖尿病患者微血管病变及终末期肾病发生的关系 俞宁娟, 陈南刚, 程媛 (192)

正常人群中甲状腺激素水平与 QT 间期的相关性研究 盛和静, 潘才钰, 王建敏 (195)

甲状腺功能正常的 2 型糖尿病患者血清促甲状腺激素水平与早期动脉粥样硬化的相关性研究
..... 陶海英, 马翠, 朱双, 等 (198)

弹性成像参数与甲状腺微小癌病灶内细胞增殖和血管新生指标间的关系 刘秀祥, 朱张茜, 刘万田 (202)

降钙素原和 C-反应蛋白对颈深部感染和脓肿诊断的临床价值 张新钢, 许会卿, 张永波, 等 (205)

帕金森氏病患者免疫球蛋白异常的临床研究 钱林利, 马威锋 (208)

多发性骨髓瘤患者血清中白细胞介素-6 和白细胞介素-8 水平与患者 Mayo 分层及肾功能损伤的关系
..... 庄顺红, 胡慧仙, 何芳, 等 (210)

降钙素原、C-反应蛋白和血沉在膝关节炎化脓性感染中的诊断价值及意义 袁青, 徐浩 (213)

血清糖类抗原 153、糖类抗原 125、细胞角蛋白 19 片段联合彩色多普勒高频超声检查在早期乳腺癌诊断中的价值
..... 陈丽芬, 赵璐, 陈佳琦, 等 (215)

选择性制备浓缩血小板成分制品的效果分析	李殷芳,陆盈,李阿中,等	(219)
和肽素与超敏肌钙蛋白 T 联合检测在非 ST 段抬高型急性心肌梗死诊断中的价值		
.....	陈红辉,陈清,施灵敏	(221)
调查·监测		
2014 年-2018 年重庆市渝中区流感样病例监测结果分析	易光兆,张德勇,曾倩倩,等	(224)
一起建设工地诺如病毒聚集性疫情的调查及实验室检测	章国宝,应丽红,胡肖雄,等	(227)
鹿城区 2011 年-2017 年麻疹监测结果及流行特征分析	毛振兴,叶晓丹,张速进,等	(229)
2017 年北京市门头沟山区农村自备井水总硬度含量分析	王丽,王肖红,李龙建	(232)
武威市食源性疾病病例实验室检测结果分析及耐药监测结果	黄爱霞,申艳琴,吴燕,等	(235)
腹部手术切口感染分泌物病原体分布特点调查分析	战相菲,柴立新,叶颖碧,等	(239)
湖北省大型综合医院重点科室物体表面及医务人员手卫生现状调查	张静玲,余波	(242)
2017 年烟台市病毒性腹泻病原学监测分析	董兆静,宫连凤,徐迎春,等	(245)
一起由非产毒 O1 群小川型霍乱弧菌引起的感染性腹泻聚集性疫情调查分析	郭敏建,王国华	(247)
2015 年-2018 年青岛市崂山区几类食品中单核细胞增生李斯特菌监测结果分析		
.....	刘广燕,孟彬,邓慧娟	(249)
浙江省强制隔离戒毒人群性传播疾病感染状况及影响因素分析	丛迎,王晓光,叶灵,等	(252)
2016 年南阳市结核病耐药监测结果分析	韦红,张阳,刘韦卓	(255)

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 2 January 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

Molecular mechanism of ciprofloxacin drug resistance in *Streptococcus pneumoniae* induced in vitro

..... SHU Mei, SUN Ai - hua, WANG Jia - xue (129)

The application value of serum HE4, CA125 and ovarian malignant tumor risk algorithms in the dualistic classification of epithelial ovarian cancer

..... WANG Gui - ye, CHEN Qiong, XIE Qi - peng (132)

Study on phenotypic characteristics and PFGE typing of *Salmonella typhimurium* in Minhang District, Shanghai

..... TONG Rui, CHEN Xiu - hua, LIU Yun, *et al* (136)

Analysis of antinuclear antibodies spectrum test results of 1 544 pediatric patients

..... BAI Wei - wei, WEN Huai - kai, WANG Ying - ying, *et al* (141)

Chemical Detection Method

Simultaneous determination of caffeine, theophylline and theobromine in drinks by liquid chromatography - mass spectrometry

..... ZHAI Jin - xiao, GAO Zhong - yong, SAI Ya - wen, *et al* (144)

Determination of anion synthetic detergent residue on the surface of dinner and drinking set by automatic flow injection analysis

..... GUI Ting - ting, ZHU Zhao - zhong, WANG Hui (148)

Determination of chlorite and chlorate in drinking water by ion chromatography with column change	MAI Lang, YANG Wen - di (151)
Microbe Detection Method	
Detection and results analysis of fecal <i>Vibrio parahaemolyticus</i> in patients with foodborne diarrhea	LI Hong - jie, CHEN Zhi - hang, YE Bin, <i>et al</i> (154)
Analysis of the distribution and drug resistance of <i>Klebsiella pneumoniae</i> in patients with type 2 diabetes mellitus combined with infection	CHEN Lei, LI Li - na, LU Bin - bin, <i>et al</i> (158)
Survey on TORCH infection in women at childbearing age in Jiaying City from 2015 to 2017	WU Rong - rong, LI Yong - xiang, ZHOU Zhen, <i>et al</i> (161)
Analysis of risk factors and drug resistance of nosocomial acquired <i>Staphylococcus aureus</i> in orthopaedic patients	ZHANG Hai - ming, SHI Li - huang, ZHANG Jin - xi, <i>et al</i> (164)
Changes and drug resistance of pathogenic bacteria in nosocomial infection in ICU	YING Hai - huan, BIAN Bao - hua (167)
Research in quality control method of diphtheria toxoid antigen in combined vaccine	CHEN Wen, ZHENG Meng - ting, HU Ye - qin, <i>et al</i> (171)
Clinical observation on the distribution and drug resistance of pathogenic bacteria in maternal secretion and prenatal examination of 198 pregnant and lying - in women	DENG Shao - tuan, NIU Shi - qiong, HU Yi - lin, <i>et al</i> (175)
Clinical Laboratory Test	
Significance of monocyte CD11b of peripheral blood in the diagnosis of unstable angina pectoris	LIN Liang, YAN Rong, ZHOU Ya - ping, <i>et al</i> (179)
Detection and clinical significance of immune index, coagulation index, SDF - 1a and LDH levels in patients with acute leukemia	FENG Ai - mei, ZHAO Pu, XU Yu, <i>et al</i> (183)
The clinical significance of anti - HBx and cytokines in patients with chronic hepatitis B and liver cancer	DUAN Zheng - jun, LI Cai - dong, YANG Yong - wei, <i>et al</i> (186)
Value of pepsinogen combined with <i>Helicobacter pylori</i> in screening early gastric cancer	LIN Yan, LV Xiao - jin, MA Ling - min, <i>et al</i> (189)

Association of <i>TCF7L2</i> gene polymorphism with microangiopathy and end – stage renal disease in diabetic patients	YU Ning – juan, CHEN Nan – gang, CHENG Yuan (192)
Correlation of serum thyroid hormones with QT interval in people with normal thyroid function	SHENG He – jing, PAN Cai – yu, WANG Jian – min (195)
Association between thyroid stimulating hormone and early atherosclerosis in newly diagnosed patients with type 2 diabetes mellitus and normal thyroid function	TAO Hai – ying, MA Cui, ZHU Shuang, <i>et al</i> (198)
Correlation between ultrasound elastography parameters and molecular prognostic parameters in patients with thyroid microcarcinoma	LIU Xiu – xiang, ZHU Zhang – qian, LIU Wan – tian (202)
Diagnosis value of joint detection of procalcitonin and C – reactive protein in children’s deep neck infection and abscess	ZHANG Xin – gang, XU Hui – qing, ZHANG Yong – bo, <i>et al</i> (205)
Clinical study of peripheral blood immunoglobulin abnormalities in patients with Parkinson’s disease	QIAN Lin – li, MA Wei – feng (208)
Relationship between serum levels of IL – 6 and IL – 8 in patients with multiple myeloma and their Mayo stratification and renal function impairment	ZHUANG Shun – hong, HU Hui – xian, HE Fang, <i>et al</i> (210)
Diagnostic value and significance of PCT, CRP and ESR in suppurative infection of knee	YUAN Qing, XU Hao (213)
Clinical significance of serum CA153, CA125, CYFRA21 – 1 combined with high – frequency color Doppler ultrasound detection in the early diagnosis of breast cancer	CHEN Li – fen, ZHAO Lu, CHEN Jia – qi, <i>et al</i> (215)
Effect analysis of platelet concentration products by selective preparation	LI Yin – fang, LU Ying, LI A – zhong, <i>et al</i> (219)
The value of combined detection of copeptin and hypersensitive troponin in the diagnosis of non – ST – segment elevation acute myocardial infarction	CHEN Hong – hui, CHEN Qing, SHI Ling – min (221)
Investigation and Monitoring	
Monitoring and analysis of influenza – like illness in Yuzhong District, Chongqing from 2014 to 2018	YI Guang – zhao, ZHANG De – yong, ZENG Qian – qian, <i>et al</i> (224)
Investigation and laboratory test of a cluster epidemic of norovirus in construction sites	ZHANG Guo – bao, YING Li – hong, HU Xiao – xiong, <i>et al</i> (227)

Analysis of measles surveillance results and epidemiological characteristics in Lucheng District from 2011 to 2017
..... MAO Zhen – xing, YE Xiao – dan, ZHANG Su – jin, *et al* (229)

Analysis of total hardness of self – provided well water in mountainous areas of Mentougou District, Beijing in 2017
..... WANG Li, WANG Xiao – hong, LI Long – jian (232)

Analysis of laboratory test results and drug resistance monitoring results of foodborne diseases in Wuwei City
..... HUANG Ai – xia, SHEN Yan – qin, WU Yan, *et al* (235)

Investigation and analysis of pathogens distribution in abdominal incision infection
..... ZHAN Xiang – fei, CHAI Li – xin, YE Ying – bi, *et al* (239)

Survey on hygienic status of objects’ surfaces and medical staff’s hand surfaces in some priority departments of large general
hospitals in Hubei Province ZHANG Jing – ling, YU Bo (242)

Analysis of pathogenic monitoring of virus diarrhea in Yantai in 2017
..... DONG Zhao – jing, GONG Lian – feng, XU Ying – chun, *et al* (245)

Investigation and analysis of an infectious diarrhea aggregated epidemic situation caused by non – toxigenic *Vibrio cholerae* O1,
Serotypes Ogawa GUO Min – jian, WANG Guo – hua (247)

Analysis of monitoring results of *Lesteria Monocytogenes* in several kinds of food in Laoshan District, Qingdao from 2015 to
2018 LIU Guang – yan, MENG Bin, DENG Hui – juan (249)

Analysis of sexually transmitted diseases infection and its influencing factors among isolated drug users in Zhejiang Province
..... CONG Ying, WANG Xiao – guang, YE Ling, *et al* (252)

Analysis of surveillance results of tuberculosis resistance in Nanyang City in 2016
..... WEI Hong, ZHANG Yang, LIU Wei – zhuo (255)

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

世界防治麻风病日

2020年1月26日：第67届“世界防治麻风病日”暨第33届“中国麻风节”。

麻风病是一种严重危害人类健康的慢性传染病，设立此节日的目的在于普及麻风防治知识，消除麻风恐怖和歧视，并对在中国消灭麻风的伟大事业起促进作用。

麻风病防治核心知识：

- 一、麻风病可防、可治、不可怕。
- 二、麻风病是一种慢性传染病，主要通过飞沫的呼吸道吸入和长期密切的皮肤接触传播。
- 三、绝大多数人对麻风病具有免疫力，发病率低。
- 四、麻风病早期症状是浅色或红色皮肤斑片，常伴感觉丧失。
- 五、怀疑麻风病，应当尽早到专业机构[疾病预防控制中心/皮肤病防治所（站）]就诊。
- 六、早诊早治可避免畸残，规范治疗可完全治愈。
- 七、国家对麻风病的诊断和治疗实行免费，报病有奖。