



ISSN
CN QK1908736

中国卫生检验杂志

ZHONGGUO WEISHENG JIANYAN ZAZHI

2019年3月 第29卷 第6期

Mar.2019 Vol.29 No.6

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

6



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

2019

中国卫生检验杂志

ZHONGGUO WEISHENG JIANYAN ZAZHI

半月刊 1991 年创刊 第 29 卷 第 6 期 2019 年 3 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 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

广告发布登记证号

郑金水广登字[2018]005 号

2019 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

Taqman 低密度微流体芯片技术在呼吸道传染病病原体快速检测中的应用分析 王彦波,荆红波,李湛,等 (641)

EB 病毒 EA - D 抗原在毕赤酵母中的表达及产物在鼻咽癌血清学诊断中的应用 王瑞雪,张丽中,韩亚萍,等 (644)

耐亚胺培南鲍曼不动杆菌耐药性与外排泵基因 *adeB* 关系的分析
..... 高春艳,戎建荣,周永年,等 (648)

超高效液相色谱 - 串联质谱法测定酸奶中的喹乙醇及其代谢物
..... 张秀清,陈俊秀,李文廷,等 (651)

缺血再灌注损伤大鼠脑组织及外周血炎症细胞因子分析
..... 张国倩,徐士欣,刘运德 (654)

化学测定方法

超高效液相色谱 - 串联质谱法测定虾干中 12 种工业染料
..... 张海君,何微娜,倪承珠,等 (658)

微生物检测方法

乙型肝炎病毒基因分型的双通道荧光 PCR 检测及其在未成年乙型肝炎病毒感染者中的临床应用 谢振迪,金速速,余坚,等 (662)

本刊编委 (排名按姓氏笔画排列)

丁家华 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 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 宋宏彬 吴清平 杨 元
张 蒙 张 曦 张贺秋 邹学贤
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 颀 廖百森 裴少军
裴晓方 谭晓东 熊 英 潘 慧
冀元棠 穆新林

Editorial Board Member(in Surname Stroke Order)

DING Jia - hua, CANG Gong - ao, FANG Chi -
guang, WANG Min, WANG Zhe, WANG Da -
ning, WANG Zhi - yu, WANG Jing - yu, WANG
Kai - juan, WANG Xu - dong, WU Fu - hai,
FENG Xiao - yan, YE Neng - quan, BI Yong -
yi, LIU Yu - long, LIU Yun - de, LIU Xiu - mei,
LIU Dian - wu, LV Yu - min, LV Chang - yin,
QI Jian - cheng, REN Yi - ping, SUN Chang -
hao, SUN Cheng - jun, XU Chun - xiang, CHEN
Shou - jian, HE Jian - guo, HE Zhe - sheng, HE
Xiao - qing, LI Rong, LI Lei, LI Ming - wu,
LI Xiao - hong, SONG Hong - bin, WU Qing -
ping, YANG Yuan, ZHANG Meng, ZHANG Xi,
ZHANG He - qiu, ZOU Xue - xian, JIANG Qing -
wu, ZHAO Zhuo, ZHAO Yan - lin, GAO Yong -
qing, JIA Zhen - zhen, LI Wen - yuan, LING
Wen - hua, LUAN Yan, XU Dong - qun, CAO
Jia, CHAO Fu - huan, CUI Wei, CHANG Feng -
qi, HUANG Guo - wei, KANG Hui, KANG Wei -
jun, HAN Yu - xia, HAN Xue - yao, ZENG
Xian - wei, DOU Zhi - yong, PU Ping, KAN Biao,
LIAO Bai - sen, PEI Shao - jun, PEI Xiao - fang,
TAN Xiao - dong, XIONG Ying, PAN Hui, JI
Yuan - tang, MU Xin - lin

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

某院耐甲氧西林金黄色葡萄球菌临床分离株的分布与抗生素敏感性分析

..... 邢忠海,邱巍,张秀香,等 (666)

2012 年 - 2016 年医院大肠埃希菌分布特征及耐药性分析

..... 孙景熙,王福斌,陈剑明,等 (669)

亳州市 2016 年 - 2017 年 HIV 抗体筛查阳性反应标本复核及确证试验结

果分析 王祥英,钱树生,单三毛,等 (673)

肺炎克雷伯菌的分布及耐药性分析 ... 唐延辉,李希岚,陈国敏 (676)

实用液 - 固培养基联合检测支原体培养的方法 程向方 (679)

台州地区 2 378 例流感样病例呼吸道感染病毒病原学分析

..... 翁坚,盛莹,梁鸿镖,等 (681)

老年住院患者下呼吸道感染病原菌分布及耐药性分析

..... 孙永宁,石莉娜 (685)

临床检验

孟鲁司特钠对儿童支气管哮喘呼出气一氧化氮水平影响

..... 王忠敏,汤卫红,王惠庭,等 (688)

慢性阻塞性肺疾病 PM2.5 暴露水平与呼出气一氧化氮(FeNO)水平相关

性研究 朱红国,郑丽娜,张天翼,等 (691)

儿童肺炎支原体肺炎外周血 T 辅助细胞亚群变化及咽拭子肺炎支原体 RNA 表达	
.....	俞红粉,徐培林,管敏昌,等 (694)
扩张性心肌病血清转化生长因子 β 与生长分化因子 15 的变化及意义	范晓涛,丰明俊,傅路红 (697)
组织芯片检测天冬氨酸蛋白水解酶 3 和簇分化抗原 147 在人结直肠癌中的表达水平及其对化疗疗效和预后的相关性	
.....	任莹,丛玲华,钟国平,等 (700)
肺结核患者外周血 T 细胞活化亚群和细胞因子的变化	赵慈余,陆玲娜,邱莲女,等 (705)
甲孕酮联合克林霉素磷酸酯对子宫内膜炎患者炎症因子和免疫功能的影响	
.....	马慕祯,祖筠筠,姜莉莉,等 (709)
儿童难治性支原体肺炎免疫机制分析	邹旭凤,徐梅英,刘志英,等 (713)
慢性阻塞性肺疾病患者呼吸道合胞病毒感染后血清 TH2 类细胞因子及肺表面活性蛋白 D 水平的研究	
.....	郝燕燕,邹晓静,李献超 (716)
EDTA 抗凝管对布鲁杆菌病虎红平板凝集试验造成假阳性结果的分析	闫皓 (720)
血小板/淋巴细胞比值与急性脑梗死的相关性研究	郑丽芬,林萍,张庆元,等 (722)
子宫内膜癌患者术前白蛋白检测的临床意义及对预后的评估价值	周柯宁,何颖颖,范素鸿,等 (725)
D - 二聚体联合 B - 型尿钠肽在孕晚期伴心功能不全早期诊断的应用	施佳英,楚旭,刘军 (728)
低反应性乙型肝炎表面抗原患者血清核酸定量及基因型的相关性分析	余占娟,李向阳 (731)
手足口病患儿血清 25 - 羟基维生素 D 的检测 results 分析	夏金星,段达荣,邹金艳 (734)

小儿肺炎患者院感病原菌检测、耐药性及其防治措施 周鸿良,朱彤,沈佩芳 (737)

骨髓增生异常综合征与巨幼细胞性贫血、再生障碍性贫血的细胞形态学对比分析 钱小鸿,吴佳洛 (740)

比较胸腹水常规细胞学和液基细胞学在肿瘤细胞中的研究价值分析 李相磊,孔瑞华,杨树利,等 (744)

调查·监测

2013 年 - 2017 年烟台市食源性疾病主动监测结果分析 邢玉芳,孙月琳,王朝霞,等 (747)

云南省瓶(桶)装饮用水微生物污染源的统计分析 孙华颖,刘勤,孙鹤 (751)

闵行区新确认 HIV 人群免疫状况分析 汪静,王小光,欧阳霖,等 (754)

常见输血不良反应发生率及相关危险因素探讨 徐燕娜,纪勇平,杨慧,等 (757)

金华地区结核病与年龄关系的分析 李琦,许显罕,盛蕾洁 (760)

血小板与淋巴细胞比值、乳酸脱氢酶联合肺肿瘤标志物检测在肺腺癌中的诊断价值
..... 许颖,王冬莲,郭浩翔 (763)

综 述

口岸输入性淋病及其耐药性监测策略 谢茜,温颖,黄立萍,等 (766)

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 29 Number 6 March 25, 2019

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, 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 2019 by Editorial Department of
Chinese Journal of Health Laboratory Technology

Price
RMB ¥ 38

CONTENTS IN BRIEF

Original Articles

Application and analysis of Taqman Array Cards in rapid detection of respiratory

pathogens WANG Yan – bo, JING Hong – bo, LI Zhan, *et al* (641)

Expression and its product of Epstein – Barr virus EA – D antigen in *Pichia*

pastoris and application in serological diagnosis of nasopharyngeal carcinoma

..... WANG Rui – xue, ZHANG Li – zhong, HAN Ya – ping, *et al* (644)

Relationship analysis of efflux pump *adeB* and Imipenem resistance of *Acineto-*

bacter baumannii

..... GAO Chun – yan, RONG Jian – rong, ZHOU Yong – nian, *et al* (648)

Determination of olaquinox and its metabolite in yoghurt by ultra perform-

ance liquid chromatography – tandem mass spectrometry

..... ZHANG Xiu – qing, CHEN Jun – xiu, LI Wen – ting, *et al* (651)

Analysis of inflammatory cytokines in brain tissue and peripheral blood of is-

chemia – reperfusion rats

..... ZHANG Guo – qian, XU Shi – xin, LIU Yun – de (654)

Chemical Detection Method

Determination of 12 industrial dyes in dry shrimp by ultra high performance

liquid chromatography – tandem mass spectrometry

..... ZHANG Hai – jun, HE Wei – na, NI Cheng – zhu, *et al* (658)

Microbe Detection Method

Detection of HBV genotypes by dual – color qPCR and its clinical application for juveniles infected with HBV XIE Zhen – di, JIN Su – su, YU Jian, *et al* (662)

Distribution and antibiotic sensitivity analysis of clinical isolates of methicillin resistant *Staphylococcus aureus* in a hospital ... XING Zhong – hai, QIU Wei, ZAHNG Xiu – xiang, *et al* (666)

Distribution characteristics and drug resistance analysis of *Escherichia coli* from 2012 to 2016 SUN Jing – xi, WANG Fu – bin, CHEN Jian – ming, *et al* (669)

Analysis of verification and confirmation tests results of positive samples in HIV antibody screening in Bozhou from 2016 to 2017 WANG Xiang – ying, QIAN Shu – sheng, SHAN San – mao, *et al* (673)

Distribution and drug resistance analysis of *Klebsiella pneumonias* TANG Yan – hui, LI Xi – lan, CHEN Guo – min (676)

Liquid – solid combined detection in culture of *Mycoplasma* CHENG Xiang – fang (679)

Etiological surveillance of respiratory viral pathogens in 2 378 patients with influenza – like illness in Taizhou WENG Jian, SHENG Ying, LIANG Hong – biao, *et al* (681)

Distribution and drug resistance of pathogen causing lower respiratory tract infections in hospitalized elderly patients SUN YONG – ning, SHI LI – na (685)

Clinical Laboratory Test

Effect of montelukast sodium on exhaled nitric oxide levels in children with bronchial asthma WANG Zhong – min, TANG Wei – hong, WANG Hui – ting, *et al* (688)

Correlation and analysis of PM2.5 exposure with fractional exhaled nitric oxide in patients with chronic obstructive pulmonary disease ZHU Hong – guo, JIA Li – na, ZHANG Tian – yi, *et al* (691)

Changes of T helper cell subsets in peripheral blood and MP – RNA expression on pharynx swab in children with *Mycoplasma pneumoniae pneumonia* YU Hong – fen, XU Pei – lin, GUAN Min – chang, *et al* (694)

Changes and significance of serum transformation growth factor β and growth differentiation factor 15 in patients with dilated cardiomyopathy FAN Xiao – tao, FENG Ming – jun, FU Lu – hong (697)

Chemotherapeutic effect and prognostic correlation of colorectal cancer patients with different expression levels of caspase -3 and CD 147 by tissue chip REN Ying, CONG Ling - hua, ZHONG Guo - ping, *et al* (700)

Changes of T lymphocytes activation and cytokines in peripheral blood of patients with pulmonary tuberculosis ZHAO Ci - yu, LU Ling - na, QIU Lian - nv, *et al* (705)

Effect of medroxyprogesterone acetate combined with clindamycin phosphate on inflammatory factors and immune function in patients with endometritis MA Mu - nong, ZU Jun - jun, JIANG Li - li, *et al* (709)

Analysis of immune mechanism of refractory Mycoplasma pneumonia in children ZOU Xu - feng, XU Mei - ying, LIU Zhi - ying, *et al* (713)

Study on serum levels of TH2 cytokines and SP - D level in COPD patients after respiratory syncytial virus infection HAO Yan - yan, ZOU Xiao - jing, LI Xian - chao (716)

To analyze the false positive results caused by Edta anticoagulation blood collection vessel in Brucellosis Rose - Bengal Plate agglutination test YAN Hao (720)

Relationship of platelet - to - lymphocyte ratio with acute cerebral infarction ZHENG Li - fen, LIN Ping, ZHANG Qing - yuan, *et al* (722)

Clinical significance of preoperative ALB detection in patients with endometrial carcinoma and evaluation of prognosis ZHOU Ke - ning, HE Ying - ying, FAN Su - hong, *et al* (725)

D - dimer combined with plasma B - type natriuretic peptide in diagnosis of late pregnancy with cardiac insufficiency SHI Jia - ying, CHU Xu, LIU Jun (728)

Correlation analysis of serum nucleic acid quantification and genotype in patients with low titer HBsAg YU Zhan - juan, LI Xiang - yang (731)

Monitoring results and analysis of serum 25 - hydroxyvitamin D in cases with hand , foot and mouth disease XIA Jin - xing, DUAN Da - rong, ZOU Jin - yan (734)

Pathogen detection, drug resistance and preventive measures in infantile pneumonia patients ZHOU Hong - liang, ZHU Tong, SHEN Pei - fang (737)

Cell morphological comparison and analysis of myelodysplastic syndrome and megaloblastic anemia, aplastic anemia	
.....	QIAN Xiao - hong, WU Jia - Luo (740)
Value comparison and analysis of routine cytology and liquid - based cytology in tumor cells	
.....	LI Xiang - lei, KONG Rui - hua, YANG Shu - li, <i>et al</i> (744)
Investigation and Monitoring	
Active surveillance and results analysis of food - borne diseases in Yantai from 2013 to 2017	
.....	XING Yu - fang, SUN Yue - lin, WANG Zhao - xia, <i>et al</i> (747)
Statistical analysis of microbe contamination sources for bottled (barreled) drinking water in Yunnan Province	
.....	SUN Hua - ying, LIU Qin, SUN He (751)
Immunity analysis of newly confirmed HIV in Minhang District	
.....	WANG Jing, WANG Xiao - guang, OUYANG Lin, <i>et al</i> (754)
Discussion on incidence rate of adverse reactions and related risk factors in transfusion	
.....	XU Yan - na, JI Yong - ping, YANG Hui, <i>et al</i> (757)
Analysis of relationship between tuberculosis and age in Jinhua	LI Qi, XU Xian - han, SHENG Lei - jie (760)
Diagnostic value of platelet to lymphocyte ratio, lactate dehydrogenase and lung cancer - related tumor markers in lung adenocarcinoma patients	XU Ying, WANG Dong - lian, GUO Hao - xiang (763)

Editor in Charge	YANG Feng	Responsibility of Proofreading	LIU Di	English Editor	ZHANG Meng	TIAN Hui
------------------	-----------	--------------------------------	--------	----------------	------------	----------

精准扶贫

全面建设小康社会

