



ISSN 1004-8685
CN 41-1192/R

中国卫生检验杂志

ZHONGGUO WEISHENG JIANYAN ZAZHI

2014年11月 第24卷 第21期

Nov.2014 Vol.24 No.21

国家卫生和计划生育委员会主管
中华预防医学会主办

CHINESE
JOURNAL OF HEALTH
LABORATORY TECHNOLOGY

CJ
HLT

中文核心期刊

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(A-)

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

21

2014

ISSN 1004-8685



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 24 卷 第 21 期 2014 年 11 月 10 日出版

主 管

中华人民共和国国家卫生和计划生育委员会
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,北京市朝阳区劲松东口华泰饭店

社长总编

张绍武

副社长

张 甜 姜友珍

副总编

郁庆福 李桂英 张克荣

编辑部主任

杨 锋

责任编辑

黄霁秋 白 云

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

编辑部电话

0371 - 65978342
0371 - 65968289 (传真)

广告部电话

0371 - 65998851
15538110112

出版日期

2014 年 11 月 10 日

发 行

国内发行:北京市邮政局
邮发代号:80 - 152
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

ISSN1004 - 8685
CN41 - 1192/R

广告经营许可证号

4100004000124

2014 年版权归中国卫生检验杂志社所有

定 价

每期 21.5 元

目 次

述 评

现代卫生微生物学创建纪实 郁庆福 (3041)

论 著

急性早幼粒细胞白血病微小残留病灶的检测

..... 周国忠,钟永根,孙荷,等 (3046)

用于 PCR 检测的枣中霉菌 DNA 提取条件优化

..... 郝莉花,蒋祎丽,纵伟,等 (3050)

利用插入序列 IS6110 建立结核分枝杆菌检测方法的研究

..... 金福姝,薛强,邹明强,等 (3053)

PerFix - nc 在流式细胞术检测临床 Th17 细胞中的应用

..... 林向华,王英,吴秋菊,等 (3056)

化学测定方法

液相色谱 - 串联质谱法测定生活饮用水中的灭草松和 2,4 - 滴

..... 骆春迎,余辉菊 (3059)

气相色谱法测定茶叶中 3 种有机氯和 16 种拟除虫菊酯农药残留

..... 李伟,单美娜,徐晓枫 (3062)

液相色谱法测定工作场所空气中游离六亚甲基二异氰酸酯

..... 吴健,李小娟,周长美,等 (3065)

本刊编委 (排名不分先后)

李 蓉 薄 萍 何浙生 丁家华
陈守建 叶能权 贾珍珍 何晓青
何建国 许春向 刘秀梅 王志玉
冀元荣 毕永毅 高永清 晁福寰
邹学贤 刘殿武 仓公敖 吕昌银
方赤光 孙成均 栗文元 姜庆五
凌文华 韩玉霞 康维钧 曹 佳
黄国伟 王大宁 袁志勇 孙长颢
廖百森 赵 卓 杨 元 李晓虹
张 曦 谭晓东 裴晓方 任一平
徐东群 栾 燕 潘 慧 王栩东
祁建城 崔 巍 裴少军 吴清平
曾现伟 康 辉 阙 颢 王京宇
曹润武 王 哲 宋宏彬 熊 英

Editorial Board Member

Li Rong, Pu Ping, He Zhesheng, Ding Jiahua,
Chen Shoujian, Ye Nengquan, Jia Zhenzhen, He
Xiaoqing, Hu Jianguo, Xu Chunxiang, Liu Xi-
umei, Wang Zhiyu, Ji Yuantang, Bi Yongyi, Gao
Yongqing, Chao Fuhuan, Zou Xuexian, Liu Dian-
wu, Cang Gongao, Lv Changyin, Fang Chiguang,
Sun Chengjun, Li Wenyuan, Jiang Qingwu, Ling
Wenhua, Han Yuxia, Kang Weijun, Cao Jia,
Huang Guowei, Wang Daning, Dou Zhiyong, Sun
Changhao, Liao Baisen, Zhao Zhuo, Yang Yuan, Li
Xiaohong, Zhang Xi, Tan Xiaodong, Pei Xiaofang,
Ren Yiping, Xu Dongqun, Luan Yan, Pan Hui,
Wang Xudong, Qi Jiancheng, Cui Wei, Pei Shao-
jun, Wu Qingping, Zeng Xianwei, Kang Hui, Kan
Biao, Wang Jingyu, Cao Runwu, Wang Zhe,
Song Hongbin, Xiong Ying

网 址

www.cdc999.com

投稿电子信箱

wsjyzz@126.com

印 刷

鑫宏源印刷包装有限责任公司

来稿咨询电话

010-84030401

实验研究

发热伴血小板减少综合征病毒在 Vero 细胞中的培养特性观察
..... 胡逢蛟,焦素黎,王忠发,等 (3070)

鳄鱼肉口服液提高小鼠缺氧耐受力的实验研究
..... 王彦武,赵鹏,梁慧莉,等 (3073)

番茄红素的亚急性毒性研究 黄佳宁,陈秀锦,陈润,等 (3075)

丹参川芎嗪注射液对急性脑梗死患者的治疗作用及血清 vasostatin-2、
sICAM-1 水平的影响 林翔东,吴红星,邵爱民 (3079)

铁皮石斛对小鼠抗氧化能力影响的实验研究
..... 唐汉庆,韦祎,卢兰,等 (3082)

食品与药品检验

基质固相分散-超高效液相色谱串联质谱法测定鸡肉中氯霉素残留 ...
..... 潘晓东,吴平谷,姜维 (3085)

直接测汞法快速检测鸡肉中的总汞
..... 夏环,张宏斌,张子磊,等 (3087)

微生物检测方法

3 270 例呼吸道感染患儿非典型病原体结果分析
..... 杨振强,陶日新,颜卫荣,等 (3089)

抗 HIV 抗体弱阳性质控血清的制备及应用评价
..... 宫辉,高玲娟 (3092)

基于细胞体外培养的干扰素释放试验对结核性胸膜炎辅助诊断的意义
..... 金向红,邵先兵 (3094)

临床检验

膝骨性关节炎关节滑液中 OPN 与 VEGF 的含量检测及其意义
..... 朱让腾,童静玲,罗利飞,等 (3096)

离子色谱法快速测定血清中甲基丙二酸含量	颜金良,俞明飞,金米聪	(3099)
宁波地区女性人乳头瘤病毒感染情况及基因亚型分析	穆银玉,孙琦,李情操,等	(3102)
重氮盐及磷酸萘酚盐浓度对 NAP 染色结果的影响	张金彪,张玉枝,胡海涛,等	(3105)
血清 CysC 联合 β_2 - MG 检测在诊断肾脏疾病中的应用	潘顺文,代群,廖媛,等	(3108)
平均血小板体积对急性脑梗塞短期预后的评价作用	邱石,徐依成,苗凤茹,等	(3111)
降钙素原检测鉴别细菌性肺炎患者革兰阳性菌与阴性菌感染的研究	梁军兵,潘君素,赖卫强,等	(3114)
微柱凝胶法和玻璃珠法测定血型凝集度的比较	韩升波,吴辉,郭亚	(3116)
孕产妇产前红细胞血型不规则抗体检测的临床意义	倪建萍,陈琪	(3119)
肝病患者血清糖类抗原水平检测与分析	任庆余,张延华,孟冀昌,等	(3121)
分子诊断与基因检测		
一种国产 HBV - DNA 荧光 PCR 检测试剂盒的性能验证	翁美华,李召东,徐美华,等	(3124)
PCR - SSCP 法检测结核分枝杆菌耐药基因突变分析	李栋梁,侯瑞生,王侃,等	(3127)
监测分析		
广东省经济贝类中多种贝类毒素的监测分析	彭荣飞,李晓晶,于鸿,等	(3129)
2010 年 - 2013 年江苏省健康儿童水痘 - 带状疱疹病毒抗体水平监测分析	吴昀,冷红英,毕诚,等	(3132)
2013 年浙江省公共场所集中空调通风系统污染状况分析	陈卫中,王晓峰,何升良,等	(3135)
甘肃省 2009 年 - 2012 年流感监测及流行特征分析	李红育,李保娣,张慧,等	(3137)
多导睡眠呼吸监测与护理干预的研究	赵春玲,王俊平,周培杰,等	(3140)
2011 年 - 2013 年重庆市渝东北片区手足口病监测病原学分析	王恒芹,郎中凯	(3142)
调查报告		
河北省易县居民饮用水中碘、氟和砷含量调查	杨艳亮,张进国,张保宗,等	(3146)
2013 年潍坊市医疗机构消毒效果分析	管益涛,陈莹莹,王志玉	(3149)
2013 年昆明市售散装酒中氨基甲酸乙酯残留量的调查	张瑞雨,师真,梁志坚,等	(3151)
2 型糖尿病住院患者血糖控制现状及慢性并发症的流行病学调查	彭聪	(3153)

桐庐县托幼机构预防性消毒质量调查	顾凤丹,邓杰,金枝花,等	(3156)
------------------------	--------------	--------

细菌耐药性研究

CCCP 泵抑制剂对多重耐药及泛耐药鲍曼不动杆菌作用的研究	孙静娜,董威,赵帅,等	(3159)
郑州某医院金黄色葡萄球菌临床分离和药敏情况分析	苟建军,闫虹,郭小兵,等	(3162)
辅助生殖门诊泌尿生殖道支原体感染及耐药性分析	泰淑红,王鹏,徐豪,等	(3165)
结核分枝杆菌耐多药菌株的吡嗪酰胺耐药性分析	穆成,王志锐,赵慧,等	(3168)
睾丸酮丛毛单胞菌耐药性及临床分析	宗劲,吕火焯,胡庆丰,等	(3170)
2010 年 - 2013 年黏质沙雷菌的临床分布及耐药性研究	陈燕敏,胡丽庆	(3172)

教学与实验室管理

葡萄酒中甜蜜素测定实验室间比对结果分析	李婵,吴平谷,张双凤,等	(3175)
仪器期间核查的计算机管理系统设计	张晓东	(3177)
云南省 2013 年艾滋病确证实验室质量考评结果分析	陈会超,马艳玲,杨朝军,等	(3180)
上海市某地区 131 家实验室生物样本转运现状及对策	夏树华,谢岗	(3182)

经验交流

科学分析麻疹疑似病例血清学及分子生物学检测结果	高健,陈翔宇	(3185)
生活饮用水中总大肠菌群不确定度的评定	于慧霞,王艳春,董丽	(3187)
吴兴区 2009 年 - 2013 年公共场所从业人员梅毒检测结果分析	于利英	(3188)
对微生物考核盲样检验的探讨	吴晓慧,马翠琴,吴慧琴,等	(3189)

短篇报道

罕见 Bx 亚型伴不规则抗 - B 抗体 1 例检测分析	刘芳,金沙	(3191)
------------------------------------	-------	--------

信 息

17 亿布局产业园 北大医疗开拓医药行业新版图		(3192)
-------------------------------	--	--------

CHINESE JOURNAL OF HEALTH LABORATORY TECHNOLOGY

Semimonthly Established in 1991, Volume 24 Number 21 November 10, 2014

Managed by

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

Sponsored by

Chinese Preventive Medicine Association
Hua Thai Hotel, East Exit of Jinsong Road, Chaoyang District, Bei-
jing, 100021

Editor in Chief

Zhang Shaowu

Deputy Chairman

Zhang Tian, Jiang Youzhen

Associate Editor in Chief

Yu Qingfu, Li Guiying, Zhang Kerong

Director of Editorial Department

Yang Feng

Editor in Charge

Huang Jiqui, Bai Yun

Edited by

Editorial Board of Chinese Journal of Health Labo-
ratory Technology

Published by

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

Editorial office telephone

0371 - 65978342
0371 - 65968289 (Fax)

Advertising department telephone

0371 - 65998851
15538110112

Publication Date

November 10, 2014

Domestic Distributor

Beijing Post Bureau
Code No: 80 - 152

Overseas Distributor

China International Book Trading Corporation
(P. O. Box 399, Beijing, China)
Code No: M5752

Website

www. cdc999. com

E - mail

wsjyzz@ 126. com

Standard Series Number

ISSN1004 - 8685
CN41 - 1192/R

Advertising Management License

4100004000124

Copyright 2014 by Editorial Department of
Chinese Journal of Health Laboratory Technology

Price

RMB ¥ 21.5

CONTENTS IN BRIEF

Editorials

- A reflection on the birth of Modern Sanitary Microbiology
..... YU Qing - fu (3041)

Original Articles

- Detection of minimal residual disease in acute promyelocytic leukemia
..... ZHOU Guo - zhong, ZHONG Yong - gen, SUN He, *et al* (3046)
- Optimization of DNA extracting conditions for detection of mould in jujube
..... HAO Li - hua, JIANG Yi - li, ZONG Wei, *et al* (3050)
- Research on establishing the detection method of *Mycobacterium tuberculosis* by
inserting sequence IS6110
..... JIN Fu - shu, XUE Qiang, ZOU Ming - qiang, *et al* (3053)
- Application of PerFix - nc in the detection of Th17 cell by flow cytometry ...
..... LIN Xiang - hua, WANG Ying, WU Qiu - ju, *et al* (3056)

Chemical Detection Method

- Determination of bentazone and 2,4 - D in drinking water using liquid chro-
matography - tandem mass spectrometry
..... LUO Chun - ying, YU Hui - ju (3059)
- Determination of 3 organic chlorine and 16 pyrethroid pesticide residues in tea
by GC LI Wei, SHAN Mei - na, XU Xiao - feng (3062)
- Determination of free HDI in the air of workplace by liquid chromatography
..... WU Jian, LI Xiao - juan, ZHOU Chang - mei, *et al* (3065)

Experimental Study

- Observation on the culture characteristics of SFTSV in Vero cells
..... HU Feng - jiao, JIAO Su - li, WANG Zhong - fa, *et al* (3070)

Experimental study on the effect of crocodile meat oral liquid on enhancing the anoxia endurance in mice
..... WANG Yan - wu, ZHAO Peng, LIANG Hui - li, *et al* (3073)

Subacute toxicity study of lycopene HUANG Jia - ning, CHEN Xiu - jin, CHEN Run, *et al* (3075)

Therapeutic effects of salviae miltiorrhizae and ligustrazine hydrochloride injection on patients with acute cerebral infarction
and effects on serum vasostatin - 2, sICAM - 1 levels LIN Xiang - dong, WU Hong - xing, SHAO Ai - min (3079)

Experimental study on the effect of *dendrobium officinale* on the antioxidant ability of mice
..... TANG Han - qing, WEI Yi, LU Lan, *et al* (3082)

Food and Drug Inspection

Determination of residues of chloramphenicol in chicken muscle by matrix solid phase dispersion and ultra - performance liquid
chromatography tandem mass spectrometry PAN Xiao - dong, WU Ping - gu, JIANG Wei (3085)

Rapid determination of total mercury in chicken by direct mercury analyzer
..... XIA Huan, ZHANG Hong - bin, ZHANG Zi - lei, *et al* (3087)

Microbe Detection Method

Analysis on the detection results of atypical pathogens in 3 270 children with respiratory tract infection
..... YANG Zhen - qiang, TAO Ri - xin, YAN Wei - rong, *et al* (3089)

Preparation and application assessment on the weakly positive randox of HIV antibody
..... GONG Hui, GAO Ling - juan (3092)

Significance of auxiliary diagnosis to tuberculosis pleurisy based on the releasing assays of interferon cultured in vitro
..... JIN Xiang - hong, SHAO Xian - bing (3094)

Clinical Laboratory Test

The content detection and significance of OPN and VEGF in the synovia fluid in patients with osteoarthritis
..... ZHU Rang - teng, TONG Jing - ling, LUO Li - fei, *et al* (3096)

Fast determination of methylmalonic acid in srum by ion chromatography
..... YAN Jin - liang, YU Ming - fei, JIN Mi - cong (3099)

Analysis of human papilloma virus infection on Ningbo females and its subtype
..... MU Yin - yu, SUN Qi, LI Qing - cao, *et al* (3102)

Influence of diazonium salt and naphthol phosphate salt concentration on NAP staining results
..... ZHANG Jin - Biao, ZHANG Yu - Zhi, HU Hai - tao, *et al* (3105)

The clinical diagnostic application of serum CysC and β_2 - MG in early detection of kidney diseases	
.....	PAN Shun - wen, DAI Qun, LIAO Yuan, <i>et al</i> (3108)
The short - term functional outcome effect of mean platelet volume for acute cerebral infarction	
.....	QIU Shi, XU Yi - cheng, MIAO Feng - ru, <i>et al</i> (3111)
Research on procalcitonin level detection differentiating <i>Gram - positive bacteria</i> and <i>Gram - negative bacteria</i> infection in pneumonia patients	
.....	LIANG Jun - bing, PAN Jun - su, LAI Wei - qiang, <i>et al</i> (3114)
Comparison of blood agglomeration determination between micro - column agglomeration gel method and glass bead method	
.....	HAN Sheng - bo, WU Hui, GUO Ya (3116)
Clinical significance of maternal antenatal detection of blood group irregular antibodies of erythrocyte	
.....	NI Jian - ping, CHEN Qi (3119)
Detection and analysis of serum carbohydrate antigen levels in patients with liver disease	
.....	REN Qing - yu, ZHANG Yan - hua, MENG Ji - chang, <i>et al</i> (3121)

Molecular Diagnosis and Gene Detection

Performance verification of a domestic fluorescence quantitative PCR diagnostic kit for HBV - DNA	
.....	WENG Mei - hua, LI Zhao - dong, XU Mei - hua, <i>et al</i> (3124)
Analysis on the mutation detection of drug resistance genes of <i>mycobacterium tuberculosis</i> by PCR - SSCP	
.....	LI Dong - liang, HOU Rui - sheng, WANG Kan, <i>et al</i> (3127)

Monitoring and Analysis

Monitoring and analysis of shellfish toxins in shellfish aquatic products in Gangdong province	
.....	PENG Rong - fei, LI Xiao - jing, YU Hong, <i>et al</i> (3129)
Detection and analysis of Varicella - Zoster virus IgG antibody levels in healthy children in Jiangsu province in 2010 - 2013	
.....	WU Yun, LENG Hong - ying, BI Cheng, <i>et al</i> (3132)
Analysis on the contamination of central air conditioning ventilation systems in public places of Zhejiang province in 2013 ...	
.....	CHEN Wei - zhong, WANG Xiao - feng, HE Sheng - liang, <i>et al</i> (3135)
Monitoring on influenza and analysis on epidemic features in Gansu during 2009 - 2012	
.....	LI Hong - yu, LI Bao - di, ZHANG Hui, <i>et al</i> (3137)
Research on polysomnography apnea monitoring and nursing intervention	
.....	ZHAO Chun - ling, Wang Jun - ping, ZHOU Pei - jie, <i>et al</i> (3140)

Pathogenic analysis on the surveillance of hand – foot – and – mouth disease at the northeast district of Chongqing from 2011 to 2013	WANG Heng – qin, LANG Zhong – kai (3142)
Investigation Report	
Survey on contents of iodine and fluorine and arsenic in drinking water of residents in Yi county of Hebei province	YANG Yan – liang, ZHANG Jin – guo, ZHANG Bao – zong, <i>et al</i> (3146)
Analysis of disinfection efficacy in medical institutions of Weifang in 2013	GUAN Yi – tao, CHEN Ying – ying, WANG Zhi – yu (3149)
Investigation of ethyl carbamate residual quantity in the bulk wine in Kunming markets in 2013	ZHANG Rui – yu, SHI Zhen, LIANG Zhi – jian, <i>et al</i> (3151)
The diabetic control state of inpatients withT2DM and epidemiological survey of chronic complication	PENG Cong (3153)
Quality investigation of preventive disinfection in childcare facilities in Tonglu county	GU Feng – dan, DENG Jie, JIN Zhi – Hua, <i>et al</i> (3156)
Bacterial Resistance Research	
Research on the effect of CCCP pump inhibitors on multi drug resistance and pan drug resistance of <i>Acinetobacter Baumanii</i>	SUN Jing – na, DONG Wei, ZHAO Shuai, <i>et al</i> (3159)
Analysis of clinical separation and drug sensitive test of <i>staphylococcus aureus</i> from some hospital in Zhengzhou	GOU Jian – jun, YAN Hong, GUO Xiao – bing, <i>et al</i> (3162)
The infection and drug resistance of urogenital tract mycoplasma in auxiliary reproductive medicine clinic	TAI Shu – hong, WANG Peng, XU Hao, <i>et al</i> (3165)
Analysis of pyrazinamide drug resistance among multi – drug – resistant isolates of <i>Mycobacterium tuberculosis</i>	MU Cheng, WANG Zhi – rui, ZHAO Hui, <i>et al</i> (3168)
Drug resistance and clinical analysis of <i>Comamonas testosteroni</i>	ZONG Jin, LV Huo – yang, HU Qing – feng, <i>et al</i> (3170)
Research on clinical distribution and drug resistance of <i>serratia marcescens</i> from 2010 to 2013	CHEN Yan – min, HU Li – qing (3172)

3M™ Petrifilm™ 快速霉菌酵母测试片

3M 霉酵 新突破

快速出结果 只需48小时

- 方便使用和判读
- 性能卓越
- 适用样品广泛
- 结果可靠
- 节省劳动力

3M 中国有限公司

总办事处

上海市长宁区仙霞路99号尚嘉中心16楼 邮编: 200336 电话: 86-21-62753535 传真: 86-21-62752343

3M