



QK1730238

ISSN 1004-8685

CN 41-1192/R

中国卫生检验杂志

ZHONGGUO WEISHENG JIANYAN ZAZHI

2017年9月 第27卷 第18期

Sep.2017 Vol.27 No.18

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

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

18

2017

ISSN 1004-8685



9 7710 万药数据170

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 27 卷 第 18 期 2017 年 9 月 25 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,北京市朝阳区华威里 25 号 5 层

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

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

出版日期

2017 年 9 月 25 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

ISSN 1004 - 8685
CN 41 - 1192/R

广告经营许可证号

4100004000124

2017 年版权归中国卫生检验杂志社所有

定 价

每期 21.50 元

目 次

论 著

TPCK 胰酶和普通胰酶对各亚型流感病毒在 MDCK 细胞分离培养中的

影响 马萍,李欣玥 (2585)

慢病毒介导长链非编码 RNA LOC100132354 过表达载体的构建及鉴定

..... 胡丽娟,陈洁,章帆,等 (2588)

罗汉松实急性毒性和亚慢性毒性实验研究

..... 黄增琼,林彩琴,庞逸敏,等 (2593)

3D 生物打印技术在构建兔原代肝细胞水凝胶结构体片段上的研究 ...

..... 罗涛,唐靓,杨亚冬,等 (2596)

化学测定方法

高效液相色谱 - 串联质谱法测定化妆品中 10 种抗生素

..... 张燕惠,李玲玲,王红梅 (2600)

吹扫捕集 - 气相色谱质谱法测定血液中 13 种挥发性有机物

..... 马俊华,董长征,张海燕,等 (2603)

免疫亲和柱净化 - 超高效液相色谱 - 串联质谱法测定烤鱼片中河豚

毒素 崔悦,曹冬 (2606)

大体积固相萃取毛细管柱气相色谱法测定生活饮用水中有机磷农药

..... 李昌安,张克才 (2609)

本刊编委 (排名按笔画排列)

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 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 飙	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

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 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

鑫宏源印刷包装有限责任公司

来稿咨询电话

010 - 84030401

临床检验

妊娠晚期 B 族链球菌感染对妊娠结局的影响	陈海迎, 郑建琼, 陈晶晶, 等 (2611)
凝血指标与宫颈恶性肿瘤相关性分析	卢国光, 侯芳妮, 袁远, 等 (2614)
晚期肺癌患者中血栓弹力图对凝血功能的评估	郝宝岚, 王黎, 王书锋, 等 (2617)
酶联免疫吸附法分析法检测中性粒细胞明胶酶相关脂质运载蛋白方法学的建立及临床应用评价	林艳, 陈志雄, 蔡瑞云, 等 (2620)
护理思维导图在慢性盆腔炎患者中运用的临床效果分析	张秀云 (2624)
血清中促甲状腺激素和 C - 反应蛋白水平与高血压患者颈动脉病变及脑血管事件的相关性研究	陈宏 (2627)
血清中淀粉样蛋白 A 和趋化因子 5 水平与肛瘻术后患者肛门功能和生活质量的关系	王天兴 (2630)
上尿路结石与血脂代谢异常及炎症的关系研究	蒋武斌, 陈柏康, 孙良学 (2633)
尿蛋白和尿酶联合检测在糖尿病肾病早期诊断中的应用价值	茅肖娜, 高国生, 沈洁琼, 等 (2636)
161 例肺外结核全血 γ - 干扰素释放试验 QFT - GIT 结果分析	陈振华, 余艳艳, 王珏, 等 (2639)
降钙素原免疫荧光定量检测系统的性能验证和评价	贾秋桦, 于斐 (2642)

多学科综合护理干预对消化性溃疡患者氧化应激和 Th17/IL-17 炎症轴的影响	王仁花	(2645)
结直肠癌患者血清乳酸脱氢酶检测的临床价值分析	童国俊,张贵阳,刘剑,等	(2648)
妊娠 4 周~9 周不同妊娠结局者血清相关激素水平的变化	李朝媛,蔡建妹	(2651)
Dumas 参考方法对总胆红素常规检测系统的正确度评价	尚才兵,黄美芳,刘峰,等	(2654)
卵巢癌腹水微环境中肿瘤相关巨噬细胞浸润情况及其表型特征	苏良生,叶德力	(2658)
阴道炎五联检试剂盒检测 245 例白带样本的结果分析	郑阳,陈良	(2660)
糖尿病患者血清中糖化血红蛋白、结缔组织生长因子、血管内皮生长因子及白细胞介素-6 对早期糖尿病视网膜病的诊断价值分析	何宁,李斌,陈文雯	(2663)
血液病患者血小板输注的临床疗效及导致无效输注的相关危险因素分析	裴耀,刘海燕,吴昉	(2667)
PDCA 循环法在降低凝血功能检测标本不合格率中的应用	董世雷,周青雪,叶雄伟,等	(2670)
中性粒细胞淋巴细胞比率和补体 C3 与系统性红斑狼疮活动度的相关性	陈素云,赵志新,吴春龙,等	(2673)
结核病患者外周血 T 细胞亚群检测的临床价值研究	邓威	(2677)

分子诊断与基因检测

成都市 2014 年-2015 年人获得性免疫缺陷病毒-1 抗病毒治疗耐药性及耐药株亚型分析		
.....	刘杨,袁丹,龚芳红,等	(2679)
活化型细胞外信号调节激酶蛋白在胃癌及癌旁组织中的表达及其与肿瘤恶性行为的相关关系		
.....	郑俊,吴翔燕,罗燕	(2682)
血清胆碱酯酶 BCHE 基因突变研究	应露漫,鲁勇,曾雪霞	(2686)

监测分析

2016 年辽宁省盘锦市腹泻患者中食源性病原菌监测结果分析	章沙沙	(2689)
2014 年-2016 年威海市食源性疾病主动监测结果分析	李艳艳,徐莉,肖辉川,等	(2693)
2010 年-2016 年乐山市流感监测结果分析	谢应国,廖倩,陈霞,等	(2696)

调查报告

2012 年-2016 年镇江市 50 岁以上人群艾滋病流行特征分析	沈俐,薛渊,刘晓霞,等	(2699)
--	-------------	--------

2010 年 - 2016 年深圳市福田区艾滋病自愿咨询人群 HIV、梅毒检测结果分析	陈润莉,刘莹,莫浩联,等	(2701)
海岛地区居民主要慢性病患率及其影响因素分析	许丽环	(2705)
4 860 例儿童风疹病毒 IgM 抗体检测结果分析	赵宗瑞,陶占领,王春霞	(2708)
2012 年 - 2016 年金华市无偿献血人群 HIV 感染情况分析	吴斌,唐慧玲,何星,等	(2711)
2015 年某市食物中毒流行特征分析	张冠峰,余慕莎,杨陈佳	(2713)
一起副溶血性弧菌食物中毒的调查与分析	程冲,庞惠勇,陈萍,等	(2716)

细菌耐药性研究

嗜麦芽窄食单胞菌的分布及其药敏分析	陈思思,陈韩,陈静超,等	(2719)
医院与社区获得性肺炎病原菌分布及耐药性变化趋势	刘超,张丽红	(2721)

经验交流

糖尿病患者自持 POCT 血糖仪的管理探讨	范明亮,高玉琴,金爱慧,等	(2726)
丙型肝炎病毒抗体与丙型肝炎病毒核心抗原联检对血液安全筛查结果分析 ...	王利健,陈俊,朱笑频,等	(2728)
民勤县食品药品检验检测资源整合的分析探讨	樊海霞	(2730)

综 述

骨钙素检测的发展及其临床应用	郭晓红	(2731)
人类血清淀粉样蛋白 A 在儿科感染性疾病诊治中的应用	刘燕丽,刘勋,蒋瑾瑾	(2734)

责任编辑 张舒 责任校对 刘迪 英文编辑 张蒙

CHINESE JOURNAL OF HEALTH LABORATORY TECHNOLOGY

Semimonthly Established in 1991, Volume 27 Number 18 September 25, 2017

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
Floor 5, No. 25 Huaweili, Chaoyang District, Beijing, 100021

Editor in Chief
ZHANG Shao - wu

Deputy Chairman
ZHANG Tian, JIANG You - zhen

Associate Editor in Chief
YU Qing - fu, LI Gui - ying, ZHANG Ke - rong

Director of Editorial Department
YANG Feng

Edited by
Editorial Board of Chinese Journal of Health Laboratory 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

Publication Date
September 25, 2017

Domestic Distributor
Beijing Post Bureau
Code: 80 - 152

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

Advertising Management License
4100004000124

Copyright 2017 by Editorial Department of
Chinese Journal of Health Laboratory Technology

Price
RMB ¥21.50

CONTENTS IN BRIEF

Original Articles

Effect of TPCK - trypsin and trypsin on the MDCK cells culture and isolation
of subtype influenza virus MA Ping, LI Xin - yue (2585)

Construction and identification of lentivirus - mediated long chain non - coding
RNA LOC100132354 over expression vector
..... HU Li - juan, CHEN Jie, ZHANG Fan, et al (2588)

Experimental research on the acute and subchronic toxicity of *Podocarpus mac-*
rophyllus fruit
..... HUANG Zeng - qiong, LIN Cai - qin, PANG Yi - min, et al (2593)

Construction of multilayered hydrogel structure of rabbit primary hepatocytes
using 3D bioprinting technique
..... LUO Tao, TANG Liang, YANG Ya - dong, et al (2596)

Chemical Detection Method

Simultaneous determination of 10 antibiotics in cosmetics by liquid chromatog-
raphy tandem mass spectrometry
..... ZHANG Yan - hui, LI Ling - ling, WANG Hong - mei (2600)

Purge and trap - gas chromatography/mass spectrometry for the determination
of 13 volatile organic compounds in blood
... MA Jun - hua, DONG Chang - zheng, ZHANG Hai - yan, et al (2603)

Determination of tetrodotoxin in roast fish slices by immunoaffinity column
clean - up coupled with ultra - liquid chromatography - tandem mass spec-
trometry CUI Yue, CAO Dong (2606)

Determination of organophosphorus pesticides in drinking water by large volume solid phase extraction – capillary gas chromatography	LI Chang – an, ZHANG Ke – cai (2609)
Clinical Laboratory Test	
Clinical effect of group B <i>Streptococcus</i> infection on pregnancy outcome in perinatal women	CHEN Hai – ying, ZHENG Jian – qiong, CHEN Jing – jing, <i>et al</i> (2611)
Correlation analysis of coagulation indicators with clinical characters in patients with malignant cervical cancer	LU Guo – guang, HOU Fang – ni, YUAN Yuan, <i>et al</i> (2614)
Evaluation of coagulation function in advanced lung cancer patients by thrombelastography	HAO Bao – lan, WAGN Li, WANG Shu – feng, <i>et al</i> (2617)
Development of a ELISA methodology for the determination of NGAL levels and the evaluation of clinical application	LIN Yan, CHEN Zhi – xiong, CAI Rui – yun, <i>et al</i> (2620)
Clinical effect analysis of nursing brain mapping in patients with chronic pelvic inflammatory disease	ZHANG Xiu – yun (2624)
Relationship of serum levels of thyroid stimulating hormone and C – reaction protein with carotid atherosclerosis and cerebrovascular events in patients with carotid artery disease	CHEN Hong (2627)
The relationship of serum amyloid A and CCL5 levels with anal function and quality of life in patients after anal fistula surgery	WANG Tian – xing (2630)
Study on the relationship of upper urinary tract calculi with dyslipidemia and inflammation	JIANG Wu – bin, CHEN Bai – kang, SUN Liang – xue (2633)
The combined detection value of urine protein and urine enzyme in the early diagnosis of diabetic kidney disease	MAO Xiao – na, GAO Guo – sheng, SHEN Jie – qiong, <i>et al</i> (2636)
QFT – GIT results analysis of whole – blood interferon – gamma release assays in 161 cases of extrapulmonary tuberculosis	CHEN Zhen – hua, YU Yan – yan, WANG Jue, <i>et al</i> (2639)
The performance verification and evaluation of immune fluorescence quantitative detection system for procalcitonin	JIA Qiu – hua, YU Fei (2642)
Effects of multidisciplinary comprehensive nursing intervention on oxidative stress and Th17/IL – 17 inflammation axis in patients with peptic ulcer	WANG Ren – hua (2645)
Detection of serum lactate dehydrogenase in patients with colorectal cancer and analysis of its clinical value	TONG Guo – jun, ZHANG Gui – yang, LIU Jian, <i>et al</i> (2648)

Changes of serum related hormones levels in 9 pregnant women with different pregnancy outcomes during pregnancy at 4 – 9 weeks	LI Zhao – yuan, CAI Jian – shu (2651)
Tureness evaluation of routine measurement system for serum total bilirubin based on Doumas reference method	SHANG Cai – bing, HUANG Mei – fang, LIU Feng, <i>et al</i> (2654)
Tumor associated macrophage infiltration and its phenotypic characteristics in ovarian cancer ascites	SU Liang – sheng, YE De – li (2658)
Analyzing the test results of 245 cases of vaginal discharge samples by vaginitis multitest kit	ZHENG Yang, CHEN Liang (2660)
Critical value of serum haemoglobinA1C, connective tissue growth factor, vascular endothelial growth factor and interleukin – 6 in diabetic patient with diabetic retinopathy	HE Ning, LI Bin, CHEN Wen – wen (2663)
Clinical efficacy of platelet transfusion and related risk factors for ineffective transfusion in patients with hematologic diseases	PEI Yao, LIU Hai – yan, WU Fang (2667)
Application of PDCA circulation to reduce the unqualified rate of specimen with blood coagulation function test in hospitalized patients	DONG Shi – lei, ZHOU Qing – xue, YE Xiong – wei, <i>et al</i> (2670)
The correlation of neutrophil to lymphocyte ratio and complement C3 with the disease activity of systemic lupus erythematosus	CHEN Su – yun, ZHAO Zhi – xin, WU Chun – long, <i>et al</i> (2673)
Detection of T cell subsets in peripheral blood of patients with tuberculosis and the research on its clinical value	DENG Wei (2677)
Molecular Diagnosis and Gene Detection	
Analysis of drug resistance and subtype in the HIV – 1 antiretroviral treatment in Chengdu during 2014 – 2015	LIU Yang, YUAN Dan, GONG Fang – hong, <i>et al</i> (2679)
Expression of phospho – extracellular signal – regul kinase protein in gastric cancer and adjacent tissues and its relationship with malignant behavior	ZHENG Jun, WU Xiang – yan, LUO Yan (2682)
Study on the gene mutations in serum cholinesterase deficiency	YING Lu – man, LU Yong, ZENG Xue – xia (2686)
Monitoring and Analysis	
Etiological monitoring results and analysis of food borne pathogens in diarrhea patients in Panjin in 2016	ZHANG Sha – sha (2689)
Analysis of active monitoring results of food – borne diseases in Weihai from 2014 to 2016	LI Yan – yan, XU Li, XIAO Hui – chuan, <i>et al</i> (2693)

Analysis of influenza surveillance in Leshan from 2010 to 2016	XIE Ying - guo, LIAO Qian, CHEN Xia, <i>et al</i>	(2696)
Investigation Report		
Epidemiological characteristics of HIV/AIDS people aged above 50 in Zhenjiang during 2012 - 2016	SHEN Li, XUE Yuan, LIU Xiao - xia, <i>et al</i>	(2699)
Analysis of the detection results of HIV and syphilis in HIV voluntary counseling in Futian district of Shenzhen from 2010 to 2016	CHEN Run - li, LIU Ying, MO Hao - lian, <i>et al</i>	(2701)
Prevalence of major chronic diseases and its influencing factors among residents in island area	XU Li - huan	(2705)
Analysis of the detection results of rubella virus IgM in 4 860 children	ZHAO Zong - rui, TAO Zhan - ling, WANG Chun - xia	(2708)
Analysis of HIV infection among voluntary blood donors in Jinhua from 2012 to 2016	WU Bin, TANG Hui - ling, HE Xing, <i>et al</i>	(2711)
Epidemiological characteristics analysis of food poisoning in a city in 2015	ZHANG Guan - feng, YU Mu - sha, YANG Chen - jia	(2713)
Survey and analysis of a food poisoning case caused by <i>Vibrio parahaemolyticus</i>	CHENG Chong, PANG Hui - yong, CHEN Ping, <i>et al</i>	(2716)
Bacterial Resistance Research		
Distribution and antimicrobial susceptibility analysis of <i>Stenotrophomonas maltophilia</i>	CHEN Si - si, CHEN Han, CHEN Jing - chao, <i>et al</i>	(2719)
Changes of distribution and drug resistance of pathogens in patients with acquired pneumonia in hospital and community ...	LIU Chao, ZHANG Li - hong	(2721)
Editor in Charge	ZHANG Shu	Responsibility of Proofreading
		LIU Di
		English Editor
		ZHANG Meng

全国控烟宣传形象大使 黄轩

黄轩



支持 公共场所禁烟 为自己为他人



全国戒烟热线：12320 4008085531
关注@卫生计生委控烟传播活动
你我助力室内公共场所全面无烟
一起#保护最多的人#

国家卫生和计划生育委员会
承制 中国健康教育中心

万方数据

ISSN 1004-8685

CN 41-1192/R

邮发代号：80-152

定价：21.50元