

主管

国家卫生健康委员会  
北京市西城区西直门外南路1号,  
100044

主办

中华预防医学会  
北京市朝阳区潘家园华威里25号,  
100021  
四川大学华西公共卫生学院  
成都市人民南路三段17号,610041

编辑

《现代预防医学》杂志编辑委员会

名誉主编

戴志澄 詹承烈 倪宗瓚 张朝武  
马 骁

主编

李晓松

常务副主编

裴晓方

编辑部主任

宛小燕

出版

《现代预防医学》杂志社  
成都市人民南路三段17号,610041  
电话:(028)85502771,85503354

印刷

成都市富生实业有限公司

发行范围

国内外公开发行

发行

国内:四川省报刊发行局  
国外:中国国际图书贸易总公司  
北京海淀区车公庄西路35号,  
100044  
刊代号:6819(MQ)

订购

全国各地邮局 邮发代号 62-183

定价

每期 15.00 元 全年 360.00 元

中国标准连续出版物号

ISSN 1003-8507  
CN 51-1365/R  
CODEN XYYIFS

2019年本刊版权归《现代预防医学》

杂志社所有

本刊刊出的所有文章不代表中华  
预防医学会和本刊编委会的观点,除非  
特别声明

如有印装质量问题,请向本刊编辑  
部调换

# 目次

## 流行病与统计方法

- HPV 流行病学数据对三种 HPV 疫苗有效性的初步预测  
..... 初亚男,封利颖,桑科,等(1)
- 2012-2017 年湖北省急性乙型病毒性肝炎流行病学分析  
..... 代佩,王晓南,官旭华,等(5)
- 2008-2017 年山东省猩红热流行病学特征分析  
..... 刘维量,寇增强,房明,等(9)
- 2011-2017 年四川省微生物性食源性疾病暴发事件分析  
..... 陈文,林黎,张誉(14)
- 2009-2017 年梧州市手足口病流行病学特征及时空聚集性分析  
..... 葛鸿科,覃敏兰,谢镇(17)
- 北京昌平区 46 株副溶血性弧菌分子流行病学特征分析  
..... 舒高林,王维钧,吴杨,等(21)

## 环境与职业卫生

- 新疆沙漠环境油田作业人员职业紧张状况与高血压发病的关系研究  
..... 李雪,薛巧云,陶宁,等(25)
- 成都某高校教职工代谢综合征影响因素及危险度预测模型研究  
..... 母东煜,马亚,景小凡,等(30)
- 2014-2017 广州市环境污水中轮状病毒和诺如病毒的检测  
..... 曾丽连,陆靖,郑焕英,等(37)

## 营养与食品卫生

- 2017 年北京市中小學生营养状况及饮食行为分析  
..... 沈艳辉,姜秀春,孟毅,等(40)
- 2010-2016 年内蒙古自治区肉及肉制品中食源性致病菌监测  
..... 乌伊罕,王利平,张冰冰(44)

## 儿少卫生与妇幼保健

- 2016 年四川省儿童青少年学生生长发育与营养状况分析  
..... 曹应琼,他卉,万莉,等(48)

柳州地区育龄妇女产后阴道微生态特征分析 ..... 丁燕玲,林忠,傅锦坚,等(53)  
早期异位妊娠患者  $\beta$ -HCG、E2 和 P 水平变化及预测分析 ..... 王洪玲,张琰(58)

### 基层卫生服务

四川民族地区易地扶贫搬迁移民社会支持现状研究 ..... 高晓凤,刘梦芸,段云,等(62)

### 卫生政策与管理

基于电子健康档案相关研究现状、热点与前沿知识可视化分析 ..... 苟梦野,赵文龙,杨美洁,等(65)  
基于集中指数的河南省卫生服务利用公平性分析 ..... 魏长慧,付先知,王璐,等(73)

### 健康与社会行为

2013 - 2017 年贵阳市部分高考人群超重及肥胖流行趋势 ..... 蒋朝晖,杨红,徐旖旎,等(78)  
挫商在应激性生活事件与亚健康关系的中介效应研究 ..... 薛允莲,许军,刘贵浩,等(82)  
农转非居民社会资本对抑郁症状的影响研究 ..... 马天佩,孙霞霞,革婧婧,等(86)  
心理一致感在冠脉支架置入术后病人社会支持与创伤后成长之间的中介作用研究  
..... 路晓琳,于洋,刘丽丽,等(91)  
关怀因素调查 - 护士长关怀量表的汉化及信效度研究 ..... 汪玲,李晓雪,朱宇航,等(95)  
三维工作疲劳量表的中文版修订 ..... 楚克群,余少华(99)  
应激系统干预对唐山市某院重度烧伤患者创伤后成长和应对方式的效果 ..... 朱亮,张倩,杨小娇,等(102)

### 实验技术及其应用

高效液相色谱 - 串联质谱法测定儿童末梢全血干血点中的维生素 D ..... 张敏,解晓露,黄小兰,等(106)  
顶空固相微萃取 - 气相色谱质谱法同时检测白酒中多种挥发性有机污染物 ..... 王丽,李磊,张展,等(111)  
肺泡灌洗对支气管扩张并发肺部感染患者炎性因子、肺功能及血气分析的影响  
..... 刘胜华,林宇斌,仲艾芳,等(116)  
环介导等温扩增法检测空肠弯曲菌 ..... 张梦寒,崔家瑞,王小龙(121)  
加速溶剂萃取/凝胶渗透色谱净化 - 气质联用法测定烟熏腊肉中 24 种多环芳烃 ... 何健,赵舰,唐晓琴,等(126)  
利多卡因抑制乳腺癌和前列腺癌细胞侵袭的作用和机制研究 ..... 周勤,黄建新,谢敏,等(132)  
过表达 TGIF1 对浸润性小鼠乳腺癌细胞体外迁移能力的影响 ..... 李立,王海玉,李江敏,等(139)

## 疾病预防控制

乙肝病毒携带者父母乙肝防治知识现状及其对心理状态影响的研究 .....	何海艳, 吴伟慎, 赵莹, 等(143)
2016年黔南州老年人群恶性肿瘤发病和死亡分析 .....	黄军, 蒙光化, 孔祥应, 等(147)
常州市0~5周岁儿童家长水痘疫苗接种意愿调查 .....	凌良健, 孙翔, 吕旭峰, 等(151)
2012-2016年毕节市自然疫源及虫媒传染病流行病学特征分析 .....	吴芳, 陈淑媛, 刘国琴(154)
乌鲁木齐市老年人营养状况对结核发病的影响研究 .....	王玥, 常玉雪, 陈阳贵, 等(159)
人群肿瘤环境危险因素归因危险度概述 .....	余艳琴, 乔友林(162)
2008-2017年沈阳市水痘流行病学特征分析 .....	刘璠, 穆金萍, 吕莉(166)
2006-2017年陕西农村居民伤害监测病例特征分析 .....	飒日娜, 王艳平, 李曼, 等(171)
2008-2017年山东省50岁及以上艾滋病感染者/病人流行特征分析 .....	黄鹏翔, 王国永, 杨兴光, 等(176)

## 临床与预防

代谢综合征与危险因素的相关研究论文可视化分析 .....	刘珂华, 刘启贵, 陈芳芳, 等(180)
------------------------------	-----------------------

## 人才培养

《突发公共卫生事件的应对及管理》在公共卫生硕士教育的实践 .....	邓海云, 吕晓华, 丁洁, 等(187)
------------------------------------	----------------------

## 读者·作者·编者

优先征集国家、省部级基金项目及重点攻关项目论文启事 .....	(72)
温馨提示 .....	(120)
声明 .....	(175)
本刊对统计学符号的要求 .....	(186)
作者修稿注意事项 .....	(192)

本期责任编辑 李斯 Executive Editor LI Si 英文编辑 赵星 English Editor ZHAO Xing

校对 李天舒 Proofreader LI Tian-shu

助理编辑 谢瑶 周婷 Associate Editor XIE Yao ZHOU Ting

总编辑 宛小燕 Chief Editor WAN Xiao-yan

期刊基本参数:CN51-1365/R \* 1974 \* s \* 16 \* 192 \* zh + en \* P \* ¥ 15.00 \* 8000 \* 42 \* 2019-01

E-mail:mpmbjb@163.com

在线办公系统网址:http://www.xdyfyx.com

**Responsible Institution**

National Health Commission of the People's Republic of China

**Sponsor**

Chinese Preventive Medicine Association 25, Warwick, PanliaoYuan, ChaoYang Distict, Beijing 100021, P. R. China  
West China School of Public Health Sichuan University 17, Section 3, Renmin Nanlu, Chengdu 610041, P. R. China

**Editing**

Editorial Board of Modern Preventive Medicine

**Honorary Editor-in-Chief**

DAI Zhi-cheng, ZHAN Cheng-lie, NI Zong-zan, ZHANG Chao-wu, MA Xiao

**President and editor-in-chief**

LI Xiao-song

**Vice president**

PEI Xiao-fang

**Editorial office director**

WAN Xiao-yan

**Publishing**

Magazine House of Modern Preventive Medicine 17, Section 3, Renmin Nanlu, Chengdu 610041  
Tel: (028)85502771 85503354

**Printing**

Chengdu Fusheng Print Co., Ltd

**Overseas Distributor**

China International Book Trading Corporation  
35 Chegongzhuang Xilu, Haidian, Beijing 100044, P. R. China

**Mail-order**

Editorial Department of Modern Preventive Medicine  
17, Section 3, Renmin Nanlu, Chengdu 610041, P. R. China  
Tel: (028)85502771 85503354

**CSSN**

ISSN 1003-8507  
CN 51-1365/R  
CODEN XYYIFS

Printed on acid-free paper; effective with Volume 45, Issue 23, 2018

Copyright © 2019 by Chinese Preventive Medicine Association

No content published by the journals of the Chinese Preventive Medicine Association may be reproduced or abridged without authorization. Please do not use or copy the layout and design of the journals without permission.

All articles published represent the opinions of the authors, and do not reflect the official policy of the Chinese Preventive Medicine Association or the Editorial Board, unless this is clearly specified.

# CONTENTS IN BRIEF

## Epidemiology and Statistical Methods

**Preliminary prediction of the effectiveness of three HPV vaccines based on HPV epidemiological data**

..... CHU Ya-nan, FENG Li-ying, SANG Ke, et al(1)

**Epidemiological analysis of acute viral hepatitis B, Hubei, 2012-2017**

..... DAI Pei, WANG Xiao-nan, GUAN Xu-hua, et al(5)

**Epidemiological characteristics of scarlet fever, Shandong, 2008-2017**

..... LIU Wei-liang, KOU Zeng-qiang, FANG Ming, et al(9)

**Outbreaks of microbial foodborne diseases, Sichuan, 2011-2017**

..... CHEN Wen, LIN Li, ZHANG Yu(14)

**Epidemiological characteristics and spatiotemporal clustering of hand, foot and mouth disease in Wuzhou, 2009-2017**

..... GE Hong-ke, QIN Min-lan, XIE Zhen(17)

**Molecular epidemiological characteristics of *Vibrio Parahaemolyticus* Isolated, Changping, Beijing**

..... SHU Gao-lin, WANG Wei-jun, WU Yang, et al(21)

## Environmental and Occupational Health

**Relationship between occupational stress and hypertension in oil field workers, Xinjiang** ..... LI Xue, XUE Qiao-yun, TAO Ning, et al(25)

**Influencing factors and risk forecast model of metabolic syndrome among college faculties, Chengdu**

..... MU Dong-yu, MA Ya, JING Xiao-fan, et al(30)

**Classification and dynamic changes of diarrhea-associated viruses in domestic sewage, Guangzhou, 2014-2017**

..... ZENG Li-lian, LU Jing, ZHENG Huang-ying, et al(37)

## Nutrition and Food Hygiene

**Nutritional status and dietary behaviors of primary and middle school students in Beijing, 2017**

..... SHEN Yan-hui, JIANG Xiu-chun, MENG Yi, et al(40)

**Surveillance for food – borne pathogens in meat and meat products,2010 –2016, Inner Mongolia**

..... WU Yi – han, WANG Li – ping, ZHANG Bing – bing(44)

**Child and Adolescent health ,Maternal and Child Health**

**Growth and nutritional status of children and adolescents ,Sichuan,2016**

..... CAO Ying – qiong, TA Hui, WAN Li, et al(48)

**Epidemiological investigation and analysis of vaginal microecology in postpartum women**

..... DING Yan – ling, LIN Zhong, FU Jin – jian, et al(53)

**Changes and predictive analysis of the levels of beta – HCG, E2 and P in patients with early ectopic pregnancy**

..... WANG Hong – ling, ZHANG Yan(58)

**Primary Health Services**

**Social support of the migrants relocated for eliminating poverty in the minority areas, Sichuan**

..... GAO Xiao – feng, LIU Meng – yun, DUAN Yun, et al(62)

**Health Policy and Management**

**Knowledge mapping analysis of research based on electronic health records**

..... GOU Meng – ye, ZHAO Wen – long, YANG Mei – jie, et al(65)

**Fairness analysis of health services based on concentration index, Henan**

..... WEI Chang – hui, FU Xian – zhi, WANG Lu, et al(73)

**Health and Social Behavior**

**Prevalence and health evaluation of overweight and obesity in candidates for College Entrance Examination in Guiyang,2013 –2017**

..... JIANG Zhao – hui, YANG Hong, XU Yi – ni, et al(78)

**Mediating effect of adversity quotient on the correlation between stressful life events and sub – health**

..... XUE Yun – lian, XU Jun, LIU Gui – hao, et al(82)

**Effect of social capital on depressive symptoms among urbanized residents**

..... MA Tian – pei, SUN Xia – xia, GE Jing – jing, et al(86)

**Mediation role of sense of coherence on social support and post – traumatic growth among patients after coronary stent implantation**

..... LU Xiao – lin, YU Yang, LIU Li – li, et al(91)

**Reliability and validity of the Chinese version of the caring factor survey – caring of manager**

..... WANG Ling, LI Xiao – xue, ZHU Yu – hang, et al(95)

**Reliability and validity of the Three – Dimensional work fatigue inventory**

..... CHU Ke – qun, SHE Shao – hua(99)

**Effect of the stress system intervention on post – traumatic growth and coping style of severe burns patients in a hospital, Tangshan**

..... ZHU Liang, ZHANG Qian, YANG Xiao – jiao, et al(102)

## Experimental Technology and Applications

**Determination of 25 – hydroxy vitamin D<sub>3</sub> and 25 – hydroxy vitamin D<sub>2</sub> in dried blood spot using high performance liquid chromatography – tandem mass spectrometry**

..... ZHANG Min, XIE Xiao – lu, HUANG Xiao – lan, et al(106)

**Detection of volatile organic contaminations in Chinese white spirit by headspace solid phase micro – extraction and gas chromatography – mass spectrometry** .....

WANG Li, LI Lei, ZHANG Zhan, et al(111)

**Effect of bronchoalveolar lavage on the inflammatory mediators, pulmonary function and blood gas analysis of patients with bronchiectasis complicated with pulmonary infection**

..... LIU Sheng – hua, LIN Yu – bin, ZHONG Ai – fang, et al(116)

**Campylobacter jejuni detected by Loop – mediated isothermal amplification**

..... ZHANG Meng – han, CUI Jia – rui, WANG Xiao – long(121)

**Determination of 24 Polycyclic Aromatic Hydrocarbons in Smoked meat by ASE extraction – GPC purification combined with gas chromatography – mass spectrometry** ...

HE Jian, ZHAO Jian, TANG Xiao – qin, et al(126)

**Effect and mechanism of lidocaine on the invasion of breast cancer and prostate cancer cells**

..... ZHOU Qin, HUANG Jian – xin, XIE Min, et al(132)

**Effect of over – expression of TGIF1 on the migration capacity of invasive mice mammary tumor cell in vitro**

..... LI Li, WANG Hai – yu, LI Jiang – min, et al(139)

## Disease Control and Prevention

**Current situation of the hepatitis B – related knowledge of the parents of HBV carriers and its effect on the mental state** .....

HE Hai – yan, WU Wei – shen, ZHAO Ying, et al(143)

**Incidence and mortality of malignant tumors among the elderly in Qiannan, 2016**

..... HUANG Jun, MENG Guang – hua, KONG Xiang – ying, et al(147)

**Intention of varicella vaccination of the parents with children aged 0 – 5 years old, Changzhou**

..... LING Liang – jian, SUN Xiang, LV Xu – feng, et al(151)

**Epidemiological features of natural focus and insect – borne infectious diseases, Bijie, 2012 – 2016**

..... WU Fang, CHEN Shu – yuan, LIU Guo – qin(154)

**Effect of nutritional status on senile tuberculosis for the elderly, Urumchi**

..... WANG Yue, CHANG Yu – xue, CHEN Yang – gui, et al(159)

**Attributable risk factors of tumor environmental, China** .....

YU Yan – qin, QIAO You – lin(162)

**Epidemiological characteristics of chickenpox in Shenyang, 2008 – 2017**

..... LIU Fan, MU Jin – ping, LV Li(166)

**Characteristics of injuries among the rural residents in Shaanxi, 2006 – 2017**

..... SA Ri – na, WANG Yan – ping, LI Man, et al(171)

**Epidemiological characteristics of HIV/AIDS patients aged 50 and above in Shandong, 2008 – 2017**

..... HUANG Peng – xiang, WANG Guo – yong, YANG Xing – guang, et al(176)

Visualization analysis of the studies on metabolic syndrome and risk factors

..... LIU Ke - hua, LIU Qi - gui, CHEN Fang - fang, et al(180)

Personnel Training

Evaluation on the course of Public Health Emergency Response and Management in training masters of Public

Health ..... DENG Hai - yun, LV Xiao - hua, DING Jie, et al(187)

## 欢迎订阅 2019 现代预防医学

ISSN 1003-8507 CN 51-1365/R 邮发代号: 62-183

中国中文核心期刊 中国科技核心期刊

2017 年度中国精品科技期刊

中华预防医学会系列杂志优秀期刊

主管单位:国家卫生健康委员会

主办单位:中华预防医学会及四川大学华西公共卫生学院

现代预防医学杂志一贯坚持理论联系实际的办刊宗旨,注重交流报道国内外预防医学新动向、新成果、新理论、新方法;充分体现期刊的学术导向,刊登国家及省部级重点攻关课题论文、著述等,同时兼顾普及,重点报道预防医学科研工作中的研究成果、经验交流及信息荟萃。欢迎广大医学科研工作者踊跃订阅,积极投稿!

本刊为半月刊,每期 15 元,全年 360 元,全国各地邮局可订,也可直接联系编辑部订阅。

地址:成都市人民南路三段 17 号,邮编:610041

电话:(028)85503354

网址:<http://www.xdyfyx.com>