

# 中华医院感染学杂志

ZHONGHUA YIYUANGANRANXUE ZAZHI

半月刊 1991年9月创刊 第30卷 第6期 2020年3月20日出版

## 主 管

中国人民解放军总医院  
100039,北京市复兴路28号

## 主 办

中华预防医学会  
100021,北京市朝阳区华威里25号  
中国人民解放军总医院  
100039,北京市复兴路28号

## 编 辑

中华医院感染学杂志编辑委员会  
100039,北京市复兴路28号  
电话:(010)66939464  
E-mail:zhyygrxz@163.com  
投稿 E-mail:zhyy6688@163.com

## 编辑委员会主任委员

陈景元

## 主 编

刘运喜

## 编辑部主任

索继江

## 出 版

中华医院感染学杂志社  
100039,北京市复兴路28号  
电话:(010)68295439  
网址: <http://zhyy.cbpt.cnki.net>

## 印 刷

北京市庆全新光印刷有限公司

## 发 行

国内:北京报刊发行局  
国外:中国国际图书贸易总公司  
(北京399信箱,100044)  
代号:1680MO

## 订 购

全国各地邮电局  
邮发代号:82-747

## 邮 购

中华医院感染学杂志社  
100039,北京市复兴路28号  
电话:(010)66939464

## 定 价

每期18元,全年432元

## 中国标准连续出版物号

ISSN 1005-4529  
CN 11-3456/R

2020年版权归中华预防医学会和  
中华医院感染学杂志社所有

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

本刊如有印装质量问题,请向本刊  
编辑部调换

万方数据

## 目 次

### 新型冠状病毒肺炎防控专题

新型冠状病毒感染医务人员职业暴露风险管理策略

..... 付强,张秀月,李诗文(0801)

新型冠状病毒肺炎流行期间医院感染防控难点与对策

..... 姚宏武,索继江,杜明梅,等(0806)

新型冠状病毒肺炎医院感染现状及预防控制策略与措施探讨

..... 索继江,闫中强,刘运喜,等(0811)

新型冠状病毒肺炎定点收治医疗机构医院感染预防与控制措施

..... 袁月,陈竹,杨兴龙,等(0817)

新型冠状病毒肺炎患者定点收治医院的医疗管理

..... 陈竹,庄英杰,李进,等(0821)

26例新型冠状病毒肺炎确诊病例临床和流行病学特征

..... 庄英杰,陈竹,李进,等(0826)

新型冠状病毒实验室核酸检测方法及实践

..... 匡慧慧,于梅,于帅,等(0830)

陕西省新型冠状病毒肺炎疫情的早期传播动力学研究

..... 白尧,刘昆,陈志军,等(0834)

新型冠状病毒 COVID-19 相关研究进展

..... 徐宝丽,管甲亮,术超,等(0839)

### 论 著

#### 基础研究

H9亚型禽流感病毒对不同动物红细胞血凝反应谱的研究

..... 王婷睿(0845)

三尖杉提取物对脓毒症小鼠T细胞行为及免疫的影响

..... 牟天易,阳雪梅,麦超,等(0850)

#### 内科感染研究

呼吸机相关性肺炎碳青霉烯类抗菌药物耐药菌感染经济损失

..... 张萍,吕芳,杨继红,等(0856)

烧伤患者耐碳青霉烯类革兰阴性杆菌感染干预措施效果研究

..... 杨小平, 陈琳, 范有芬, 等 (0861)

重症监护病房老年患者多药耐药菌的感染分布与来源分析

..... 臧凤, 张永祥, 刘波, 等 (0866)

## 外科感染研究

神经外科患者入院时产毒性艰难梭菌定植率及其危险因素研究

..... 祁琪, 高洁, 石荃, 等 (0872)

基于决策树法和 Logistic 回归预测神经外科老年住院患者医院感染风险的研究

..... 樊雯婧, 楼冬洁, 卢新, 等 (0878)

出血性脑卒中手术患者医院感染直接经济负担分析

..... 李亚婷, 孟葳, 杜金阁, 等 (0884)

边际分析法评估脑卒中手术患者医院感染经济负担

..... 宋甜田, 李亚婷, 杜金阁, 等 (0888)

乳腺癌术后肺部感染危险因素及对外周血细胞因子的变化

..... 卢艳, 李凡凡, 宋阿凤, 等 (0893)

胃癌术后感染病原菌及危险因素分析

..... 蔡雪娟, 余强, 芦乙滨, 等 (0898)

聚维酮碘胃部灌洗对内镜下黏膜剥离术患者胃部细菌菌落及感染率的影响

..... 吴江, 庞澜, 阿里木江·阿不都热合曼, 等 (0903)

骨折术后感染部位和菌株分布及其影响因素

..... 王军松, 康晓琦, 刘桂奇, 等 (0908)

## 妇儿感染研究

人巨细胞病毒活动性感染对早孕绒毛细胞 MMP9 和 TIMP1 蛋白活性的影响

..... 蒋娜, 胡蘅芬, 詹胜红, 等 (0913)

呼吸道合胞病毒感染性肺炎患儿的 TNF- $\alpha$  和 IL-1 $\beta$  水平及 TLR4 信号通路作用初步探究

..... 李天萍, 黄霞飞, 杨蕉, 等 (0919)

## 管理感染研究

上海市 30 所三级医疗机构软式内镜终末漂洗水现状调查

..... 史庆丰, 胡必杰, 崔扬文, 等 (0923)

医院感染危险因素监测结果分析

..... 孟庆兰, 曾慧, 李莉, 等 (0927)

重症监护病房医院感染情况调查与分析

..... 陈茜, 赖晓全, 杨莉 (0931)

重症监护病房单间与非单间医院感染率研究

..... 胡霞, 安海燕, 陈彦, 等 (0935)

重症监护病房不同放置位点速干手消毒剂使用消耗量调查

..... 叶青, 王莎莎, 姚希, 等 (0940)

消毒供应中心基于失效模式与效应分析法的医院感染风险管理实践

..... 赵霞, 王力红, 赵昕, 等 (0945)

中国医院小型蒸汽灭菌器现状调查

..... 张宇, 李六亿, 巩玉秀, 等 (0951)

## 综 述

抗铜绿假单胞菌感染治疗方法研究进展

..... 丁烨, 戴璐, 俞娟 (0955)

## Responsible Institution

General Hospital of PLA  
28 Fuxing Road, Beijing 100039, PR China

## Sponsor

Chinese Preventive Medicine Association  
No 25 Huaweili, Chaoyang District, Beijing  
General Hospital of PLA  
28 Fuxing Road, Beijing 100039, PR China

## Editing

Editorial Committee of Chinese  
Journal of Nosocomiology  
28 Fuxing Road Beijing 100039, PR China  
Tel: 0086-10-66939464  
E-Mail: zhyygrxz@163.com

## Chairman of the Editorial Committee

CHEN Jing-yuan (陈景元)

## Editor-in-Chief

LIU Yun-xi (刘运喜)

## Managing Director

SUO Ji-jiang (索继江)

## Publishing

Chinese Journal of Nosocomiology Press  
28 Fuxing Road, Beijing 100039, PR China  
Tel: 0086-10-68295439  
Web Site: <http://zhyy.cbpt.cnki.net>

## Printing

Beijing Qingquan Xinguang Printing Co., Ltd

## Overseas Distributor

China International Book Trading  
Corporation  
P.O. Box 399, Beijing, PR China  
Code No. 1680BM

## Mail-Order

Chinese Journal of Nosocomiology Press  
28 Fuxing Road, Beijing 100039, PR China  
Tel: 0086-10-66939464

## CSSN

ISSN 1005-4529  
CN 11-3456/R

## CODEN

ZYGZFB

## Copyright © 2020 by the

Chinese Preventive Medicine Association and  
Chinese Journal of Nosocomiology

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

## CONTENTS IN BRIEF

### Prevention and Control of COVID-19

#### Strategies for risk management of medical staff's occupational exposure to COVID-19

..... FU Qiang, ZHANG Xiu-yue, LI Shi-wen (0801)

#### Difficulties and countermeasures for control of healthcare-associated infection during epidemic of COVID-19

..... YAO Hong-wu, SUO Ji-jiang, DU Ming-mei, *et al* (0806)

#### Current status of hospital-acquired COVID-19 and strategies for prevention and control

..... SUO Ji-jiang, YAN Zhong-qiang, LIU Yun-xi, *et al* (0811)

#### Prevention and control measures for nosocomial infection in medical institutions designated for treatment of patients with COVID-19

..... YUAN Yue, CHEN Zhu, YANG Xing-long, *et al* (0817)

#### Medical management of hospitals designated for patients with COVID-19

..... CHEN Zhu, ZHUANG Ying-jie, LI Jin, *et al* (0821)

#### Clinical and epidemiological characteristics of 26 patients diagnosed with COVID-19

..... ZHUANG Ying-jie, CHEN Zhu, LI Jin, *et al* (0826)

#### Detection of nucleic acid of 2019-nCoV in medical laboratory and its practice

..... KUANG Hui-hui, YU Mei, YU Shuai, *et al* (0830)

#### Early transmission dynamics of COVID-19 in Shaanxi Province

..... BAI Yao, LIU Kun, CHEN Zhi-jun, *et al* (0834)

#### Advance in research on novel coronavirus

..... XU Bao-li, GUAN Jia-liang, SHU Chao, *et al* (0839)

### Original Articles

#### Basic Research

##### H9 subtype avian influenza virus on blood coagulation of erythrocytes

in different animals ..... WANG Ting-rui (0845)

##### Effects of *Cephalotaxus fortunei* extract on T cell behavior and immunity of sepsis mice

..... MOU Tian-yi, YANG Xue-mei, MAI Chao, *et al* (0850)

## Internal Medicine-related Infection

### Economic loss due to ventilator-associated pneumonia caused by carbapenem-resistant bacteria

..... ZHANG Ping, LYU Fang, YANG Ji-hong, *et al* (0856)

### Effects of interventions to carbapenem-resistant gram-negative bacilli infection in burn patients

..... YANG Xiao-ping, CHEN Lin, FAN You-fen, *et al* (0861)

### Distribution and sources of elderly intensive care unit patients with multidrug-resistant organisms infections

..... ZANG Feng, ZHANG Yong-xiang, LIU Bo, *et al* (0866)

## Surgery-related Infection

### Colonization of toxigenic *Clostridium difficile* in neurosurgery department patients at admission to hospital and risk factors

..... QI Qi, GAO Jie, SHI Quan, *et al* (0872)

### Prediction of risk of nosocomial infection in elderly hospitalized patients of neurosurgery department based on

decision tree model and logistic regression model ..... FAN Wen-jing, LOU Dong-jie, LU Xin, *et al* (0878)

### Direct economic burden of hemorrhagic stroke patients due to nosocomial infection

..... LI Ya-ting, MENG Wei, DU Jin-ge, *et al* (0884)

### Assessment of economic burden of stroke surgery patients due to nosocomial infection based on marginal analysis

..... SONG Tian-tian, LI Ya-ting, DU Jin-ge, *et al* (0888)

### Risk factors for postoperative pulmonary infection in breast cancer patients and changes of peripheral blood cytokines

..... LU Yan, LI Fan-fan, SONG A-feng, *et al* (0893)

### Pathogens isolated from gastric cancer patients with postoperative infection and risk factors

..... CAI Xue-juan, YU Qiang, LU Yi-bin, *et al* (0898)

### Influence of gastric lavage with povidone iodine on gastric bacterial colonies and infection rate of patients

undergoing endoscopic submucosal dissection

..... WU Jiang, PANG Lan, ALI Mu-jiang, Abudurehman, *et al* (0903)

### Infection sites, species of pathogens and influencing factors for postoperative infection in fracture patients

..... WANG Jun-song, HU Yan-bo, KANG Xiao-qi, *et al* (0908)

## Maternal and Child Infection

Effect of human cytomegalovirus active infection on the activity of MMP 9 and TIMP1 in villi of early pregnancy

..... JIANG Na, HU Heng-fen, ZHAN Sheng-hong, *et al* (0913)

Preliminary study on levels of TNF- $\alpha$  and IL-1 $\beta$ , and role of TLR4 signaling pathway in children with respiratory

syncytial virus infectious pneumonia ..... LI Tian-ping, HUANG Xia-fei, YANG Jiao, *et al* (0919)

## Infection Control

Current status of final rinse water for flexible endoscopes in 30 tertiary medical institutions of Shanghai

..... SHI Qing-feng, HU Bi-jie, CUI Yang-wen, *et al* (0923)

Monitoring of risk factors for healthcare-associated infection ..... MENG Qing-lan, ZENG Hui, LI Li, *et al* (0927)

Prevalence of nosocomial infection in intensive care unit ..... CHEN Xi, LAI Xiao-quan, YANG Li (0931)

Study on incidence of nosocomial infection between single and non-single wards in ICU

..... HU Xia, AN Hai-yan, CHEN Yan, *et al* (0935)

Consumption of alcohol-based hand disinfectants placed in different sites in wards of intensive care unit

..... YE Qing, WANG Sha-sha, YAO Xi, *et al* (0940)

Risk management of healthcare-associated infection in central sterile supply department based on failure mode and effect analysis

..... ZHAO Xia, WANG Li-hong, ZHAO Xin, *et al* (0945)

Current status of small steam sterilizers in Chinese hospitals

..... ZHANG Yu, LI Liu-yi, GONG Yu-xiu, *et al* (0951)

## Reviews

Progress of research on treatment of *Pseudomonas aeruginosa* infection ..... DING Ye, DAI Lu, YU Juan (0955)

责任编辑 胡静      中文审校 胡静 杜瑞 冯亚莉      英文审校 成富亮 崔生辉

[期刊基本参数]CN11-3456/R \* 1991 \* s \* 16 \* 160 \* zh \* P \* ¥18.00 \* 6000 \* 32 \* 2020-3