

ISSN 1674-7593  
CN 22-1399/R  
CODEN GLYZAY

# 国际老年医学杂志<sup>®</sup>

GUOJI LAONIAN YIXUE ZAZHI

原刊名：国外医学·老年医学分册

## International Journal of Geriatrics<sup>®</sup>

Volume 42 Number 6

November 2021

中国科技核心期刊

中国核心期刊遴选数据库收录期刊

中国学术期刊网络出版总库收录期刊

中国学术期刊综合评价数据库来源期刊

国家科技学术期刊开放平台收录期刊

维普网全文收录期刊

第42卷终 附有索引

2021年11月 第42卷第6期

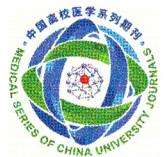


吉林大学

JILIN UNIVERSITY

# 国际老年医学杂志<sup>®</sup>

International Journal of Geriatrics



双月刊 公开发行 1980 年创刊 第 42 卷 第 6 期 2021 年 11 月 20 日出版

**主管单位**

中华人民共和国教育部

**主办单位**

吉林大学

地址:130021,长春市朝阳区新民大街 126 号

**编辑出版者**

国际老年医学杂志编辑部

地址:130021,长春市朝阳区新民大街 126 号

电话:0086-431-85619282

电子邮箱:lnyx@jlu.edu.cn

**主编**

孙连坤

**副主编**

杨文

**印刷者**

吉林省保隆冠彩印刷有限公司

**发行者**

国内:中国邮政集团公司吉林省报刊发行分公司

地址:130021,长春市解放大路 3088 号

国外:中国国际图书贸易集团有限公司

地址:100044,北京市车公庄西路 35 号

**订购处**

国内:全国各地



邮政局

邮发代号

12-29

国外:中国国际图书贸易集团有限公司

发行代号 BM6700

**邮购处**

国际老年医学杂志编辑部

地址:130021,长春市朝阳区新民大街 126 号

电话:0086-431-85619282

电子邮箱:lnyx@jlu.edu.cn

**定价**

每期 10.00 元,全年 60.00 元

**中国标准刊号**

ISSN 1674-7593

CN 22-1399/R

**广告经营许可证号**

2200004000024

**版权所有**

© 2021 国际老年医学杂志编辑部

除非特别声明,本刊刊出的所有文章不代表吉林大学和本刊编委会的观点。

作者文责自负,本刊不负连带责任。

凡向本刊投稿者,均视为已认同并遵守本刊《稿约》,所投稿件全体著作权人同意已将该稿件著作权及其相关权利在世界范围内全部转让给本刊,所有相关费用和报酬本刊已一次性付清。

## 目 次

### 原 著

- Nd:YAG 皮秒激光祛除豚鼠色素沉着斑作用的研究 ..... 周磊 王健 于司杭 刘卜蕊 赵元馨 韩丽丽 张岩广(321)
- miRNA - 210 通过 HIF - 1/Notch1 信号通路调控乏氧乳腺癌干细胞辐射抗拒的作用 ..... 齐亚莉 吴嘉慧 李忠起 陈子瑜(325)
- PD - 1 在胆囊癌组织中表达及对胆囊癌细胞转移和侵袭能力的影响 ..... 梁静 杨怡萍 廖娟 车宇 李青 尹信(331)
- 基质金属蛋白酶 - 21 在老年结肠腺癌患者术后组织中的表达及意义 ..... 刘爱东 唐慧 刘芳 庞久玲 刘时飞 闫丰(335)
- 关节置换老年患者术后切口感染的危险因素及病原菌分布临床研究 ..... 张苏玲 史婷婷 刘颖 陈星 孔祥如 刘旭 王冰(339)
- 亚甲基四氢叶酸还原酶基因多态性与老年非痴呆型血管性认知功能障碍患者预后的相关性 ..... 管萍 刘文娟 卢鹏超 李志红(342)
- 头皮针联合镜像视觉反馈训练治疗脑卒中后认知功能障碍 ..... 茅慧雯 李艳 陈妍 何凯 汤莉 刘靓 倪佳蔚 干霖(346)
- 老年 2 型糖尿病患者衰弱影响因素及对策分析 ..... 韩文璐 张兆志 王晓东(350)
- 单孔与三孔胸腔镜术对老年非小细胞肺癌患者的术后影响 ..... 冯喆 高继东 郑明非 殷传军 冯立峰 姚锐 陈明国(354)
- 老年细菌性肺炎血清学水平变化及临床意义 ..... 王春玲 孙增晋 王俊茹 毕瑞云 刘玲 尹金淑(360)

中老年下肢动脉硬化闭塞症与无症状性颈动脉狭窄的关系 ..... 王晓静 蒋雅楠 姜淑杰 王 琪(364)

营养相关指标对重症监护室老年患者谵妄风险的预测价值 ..... 徐圣君 赵晓平(368)

## 综 述

流感病毒基因芯片的研制 ..... 张思宇 姜圣钰 欧阳卓尔 谷奕诺 马明星 王 放(372)

蛋白水解靶向嵌合体在白血病靶向治疗中的研究进展 ..... 辛本凯 郭 磊 肖业臣 张纪周(376)

高迁移率族蛋白 1 与心血管疾病研究进展 ..... 谢美丽 王越晖 王智昊(381)

颅内放疗联合免疫检查点抑制剂治疗肺癌脑转移的研究进展 ..... 张瑞锋 张 奇 王 洋 刘林林(386)

舒缓医疗的发展现状以及中国发展前景和挑战 ..... 王 慧 杨继红(390)

## 动 态

皮质酮通过抑制 GAS6 表达调控毛囊干细胞静止 ..... (330)

2021 年关键词索引 ..... (封三)

中文编辑 林 琳 刘 玲

英文编辑 王 琳

# International Journal of Geriatrics<sup>®</sup>

GUOJI LAONIAN YIXUE ZAZHI

Bimonthly Established in 1980 Volume 42 Number 6 November 20, 2021

## Responsible Institution

Ministry of Education of the  
People's Republic of China

## Sponsor

Jilin University  
Address: 126 Ximin Street, Changchun  
130021, China

## Editing and Publishing

Editorial Office of  
International Journal of Geriatrics  
Address: 126 Ximin Street, Changchun  
130021, China  
Tel: 0086-431-85619282  
E-mail: lnyx@jlu.edu.cn

## Editor-in-Chief

Sun Liankun

## Deputy Editor-in-Chief

Yang Wen

## Printing

Jilin Baolong Guancai Printing CO. Ltd

## Overseas Distributor

China International Book  
Trading Corporation  
(Address: 35 Chegongzhuang xilu,  
Beijing 100044, China)  
Code No. BM6700

## Mail-Order

Editorial Office of  
International Journal of Geriatrics  
Address: 126 Ximin Street, Changchun  
130021, China  
Tel: 0086-431-85619282  
E-mail: lnyx@jlu.edu.cn

## CSSN

ISSN 1674-7593  
CN 22-1399/R

## Copyright

© 2021 by the Editorial Office of  
International Journal of Geriatrics

All articles published represent the opinions of the authors, do not reflect the official policy of Jilin University or the Editorial Board, unless this is clearly specified. All authors will be liable for the contents of their manuscripts by themselves. International Journal of Geriatrics will not bear joint and several liability.

The contributors shall be regarded as the persons who have accepted and complied with the notice to contributor. All of the authors who enjoy rights of authorship shall be deemed as the persons who have showed consent to transferring rights of authorship and other relevant rights of the manuscripts to International Journal of Geriatrics in the world. The expenses and remuneration necessary shall be paid together through International Journal of Geriatrics.

## CONTENTS

### Original Articles

- Nd:YAG Picosecond Laser in Removal of Pigmented Spots in Guinea Pigs ..... Zhou Lei, Wang Jian, Yu Sihang, Liu Buhuan, Zhao Yuanxin, Han Lili, Zhang Yangguang (321)
- Effects of miRNA-210 on Radioresistance of Hypoxic Breast Cancer Stem Cell via HIF-1/Notch Pathway ..... Qi Yali, Wu Jiahui, Li Zhongqi, Chen Ziyu (325)
- Expression of PD-1 in Gallbladder Cancer and the Effects on Metastasis and Invasion of Gallbladder Cancer Cells ..... Liang Jing, Yang Yiping, Liao Juan, Che Yu, Li Qing, Yin Xin (331)
- Expression and Significance of Matrix Metalloproteinase-21 in Colon Adenocarcinoma in Older Patients ..... Liu Aidong, Tang Hui, Liu Fang, Pang Jiuling, Liu Shifei, Yan Feng (335)
- Risk Factors and Pathogen Analysis for Postoperative Incision Infection in Older Patients Undergoing Joint Replacement ..... Zhang Suling, Shi Tingting, Liu Ying, Chen Xing, Kong Xiangru, Liu Xu, Wang Bing (339)
- Correlation between MTHFR Gene Polymorphism and Prognosis in Older Patients with Vascular Cognitive Dysfunction No dementia ..... Guan Ping, Liu Wenjuan, Lu Pengchao, Li Zhihong (342)
- Scalp Acupuncture Combined with Mirror Vision Feedback in the Treatment of Cognitive Dysfunction after Stroke ..... Mao Huiwen, Li Yan, Chen Yan, He Kai, Tang Li, Liu Liang, Ni Jiawei, Gan Lin (346)
- Influential Factors and Countermeasures for Frailty in Older Patients with Type 2 Diabetes Mellitus ..... Han Wenhui, Zhang Zhaozhi, Wang Xiaodong (350)
- Effects of Single-port and Three-port Thoracoscopic Surgery on Older Patients with Non-small Cell Lung Cancer ..... Feng Zhe, Gao Jidong, Zheng Mingfei, Yin Chuanjun, Feng Lifeng, Yao Rui, Chen Mingguo (354)
- Serological Changes and Clinical Significance in Older Patients with Bacterial Pneumonia ..... Wang Chunling, Sun Zengjin, Wang Junru, Bi Ruiyun, Liu Ling, Yin Jinshu (360)
- Relationship between Peripheral Arterial Occlusive Disease and Asymptomatic Carotid Stenosis in Older Patients ..... Wang Xiaojing, Jiang Yanan, Jiang Shujie, Wang Jun (364)
- Predictive Value of Nutrition-related Indicators on Delirium Risk in Older ICU Patients ..... Xu Shengjun, Zhao Xiaoping (368)

### Reviews

- Development of Influenza Virus Gene Chip ..... Zhang Siyu, Jiang Shengyu, Ouyang Zhuoer, Gu Yinnuo, Ma Mingxing, Wang Fang (372)
- The Recent Findings of PROTAC in Targeted Therapies for Leukemia ..... Xin Benkai, Guo Lei, Xiao Yechen, Zhang Jizhou (376)
- Advances in the Relationship between HMGB1 and Cardiovascular Diseases ..... Xie Meili, Wang Yuehui, Wang Zhihao (381)
- Cranial Radiotherapy Combined with Immune Checkpoint Inhibitors in the Treatment of Lung Cancer with Brain Metastasis ..... Zhang Ruijing, Zhang Qi, Wang Yang, Liu Linlin (386)
- Prospects and Challenges of Palliative Care in China ..... Wang Hui, Yang Jihong (390)

### Trends

- Corticosterone inhibits GAS6 to govern hair follicle stem-cell quiescence ..... (330)

# International Journal of Geriatrics<sup>®</sup>

GUOJI LAONIAN YIXUE ZAZHI

Bimonthly Established in 1980 Volume 42 Number 6 November 20, 2021

## Responsible Institution

Ministry of Education of the  
People's Republic of China

## Sponsor

Jilin University  
Address: 126 Ximin Street, Changchun  
130021, China

## Editing and Publishing

Editorial Office of  
International Journal of Geriatrics  
Address: 126 Ximin Street, Changchun  
130021, China  
Tel: 0086-431-85619282  
E-mail: lnyx@jlu.edu.cn

## Editor-in-Chief

Sun Liankun

## Deputy Editor-in-Chief

Yang Wen

## Printing

Jilin Baolong Guancai Printing CO. Ltd

## Overseas Distributor

China International Book  
Trading Corporation  
(Address: 35 Chegongzhuang xilu,  
Beijing 100044, China)  
Code No. BM6700

## Mail-Order

Editorial Office of  
International Journal of Geriatrics  
Address: 126 Ximin Street, Changchun  
130021, China  
Tel: 0086-431-85619282  
E-mail: lnyx@jlu.edu.cn

## CSSN

ISSN 1674-7593  
CN 22-1399/R

## Copyright

© 2021 by the Editorial Office of  
International Journal of Geriatrics

All articles published represent the opinions of the authors, do not reflect the official policy of Jilin University or the Editorial Board, unless this is clearly specified. All authors will be liable for the contents of their manuscripts by themselves. International Journal of Geriatrics will not bear joint and several liability.

The contributors shall be regarded as the persons who have accepted and complied with the notice to contributor. All of the authors who enjoy rights of authorship shall be deemed as the persons who have showed consent to transferring rights of authorship and other relevant rights of the manuscripts to International Journal of Geriatrics in the world. The expenses and remuneration necessary shall be paid together through International Journal of Geriatrics.

## CONTENTS

### Original Articles

- Nd:YAG Picosecond Laser in Removal of Pigmented Spots in Guinea Pigs ..... Zhou Lei, Wang Jian, Yu Sihang, Liu Buhuan, Zhao Yuanxin, Han Lili, Zhang Yangguang (321)
- Effects of miRNA-210 on Radioresistance of Hypoxic Breast Cancer Stem Cell via HIF-1/Notch Pathway ..... Qi Yali, Wu Jiahui, Li Zhongqi, Chen Ziyu (325)
- Expression of PD-1 in Gallbladder Cancer and the Effects on Metastasis and Invasion of Gallbladder Cancer Cells ..... Liang Jing, Yang Yiping, Liao Juan, Che Yu, Li Qing, Yin Xin (331)
- Expression and Significance of Matrix Metalloproteinase-21 in Colon Adenocarcinoma in Older Patients ..... Liu Aidong, Tang Hui, Liu Fang, Pang Jiuling, Liu Shifei, Yan Feng (335)
- Risk Factors and Pathogen Analysis for Postoperative Incision Infection in Older Patients Undergoing Joint Replacement ..... Zhang Suling, Shi Tingting, Liu Ying, Chen Xing, Kong Xiangru, Liu Xu, Wang Bing (339)
- Correlation between MTHFR Gene Polymorphism and Prognosis in Older Patients with Vascular Cognitive Dysfunction No dementia ..... Guan Ping, Liu Wenjuan, Lu Pengchao, Li Zhihong (342)
- Scalp Acupuncture Combined with Mirror Vision Feedback in the Treatment of Cognitive Dysfunction after Stroke ..... Mao Huiwen, Li Yan, Chen Yan, He Kai, Tang Li, Liu Liang, Ni Jiawei, Gan Lin (346)
- Influential Factors and Countermeasures for Frailty in Older Patients with Type 2 Diabetes Mellitus ..... Han Wenhui, Zhang Zhaozhi, Wang Xiaodong (350)
- Effects of Single-port and Three-port Thoracoscopic Surgery on Older Patients with Non-small Cell Lung Cancer ..... Feng Zhe, Gao Jidong, Zheng Mingfei, Yin Chuanjun, Feng Lifeng, Yao Rui, Chen Mingguo (354)
- Serological Changes and Clinical Significance in Older Patients with Bacterial Pneumonia ..... Wang Chunling, Sun Zengjin, Wang Junru, Bi Ruiyun, Liu Ling, Yin Jinshu (360)
- Relationship between Peripheral Arterial Occlusive Disease and Asymptomatic Carotid Stenosis in Older Patients ..... Wang Xiaojing, Jiang Yanan, Jiang Shujie, Wang Jun (364)
- Predictive Value of Nutrition-related Indicators on Delirium Risk in Older ICU Patients ..... Xu Shengjun, Zhao Xiaoping (368)

### Reviews

- Development of Influenza Virus Gene Chip ..... Zhang Siyu, Jiang Shengyu, Ouyang Zhuoer, Gu Yinnuo, Ma Mingxing, Wang Fang (372)
- The Recent Findings of PROTAC in Targeted Therapies for Leukemia ..... Xin Benkai, Guo Lei, Xiao Yechen, Zhang Jizhou (376)
- Advances in the Relationship between HMGB1 and Cardiovascular Diseases ..... Xie Meili, Wang Yuehui, Wang Zhihao (381)
- Cranial Radiotherapy Combined with Immune Checkpoint Inhibitors in the Treatment of Lung Cancer with Brain Metastasis ..... Zhang Ruijing, Zhang Qi, Wang Yang, Liu Linlin (386)
- Prospects and Challenges of Palliative Care in China ..... Wang Hui, Yang Jihong (390)

### Trends

- Corticosterone inhibits GAS6 to govern hair follicle stem-cell quiescence ..... (330)