

中国医学物理学杂志

CHINESE JOURNAL OF MEDICAL PHYSICS

月刊 1984年创刊 2024年12月25日第41卷第12期(总第257期)



主 管

南方医科大学

主 办

南方医科大学
中国医学物理学会

编 辑

《中国医学物理学杂志》编委会

主 编

胡逸民

编辑部主任

黄开颜

出 版

《中国医学物理学杂志》编辑部

通讯地址

广州市同和南方医科大学
生物医学工程学院
电话:020-61648280
传真:020-61360581
邮编:510515
网址:www.cjomp.com
E-mail:YXWL@263.net.cn
微信号:cjomp001

印 刷

佛山市金华彩印刷有限公司

国内订阅

全国各地邮政局
邮发代号: 46-259

国外订阅

中国出版对外贸易总公司
(北京782信箱)

国外发行代号

DK44009

邮 购

《中国医学物理学杂志》编辑部

定 价

每册15.00元;全年180.00元

中国标准连续出版物号

ISSN 1005-202X
CN 44-1351/R

目 次

专家共识

基于工程医学理论显现医学摆位伦理之专家共识

..... 葛云,殷芳芳,吴昊,万遂人,孔德兴,颜子夜,杨瑞杰,于大海,
梁军,孙向东,戴相昆,李谭谭,金献测,黄晓延,吴建峰(1453)

医学放射物理

放疗大孔径CT模拟定位机的验收服役测试与质控方案设计

..... 王美娇,刘嘉诚,姚凯宁,弓健,冯仲苏,蒋璠,
周舜,蒲亦晨,陈吉祥,吴昊,杜乙(1460)

基于放射生物学模型的放疗中断补量计算及其临床应用

..... 苏欢繁,马莉,权恩卓,代智涛(1473)

术前短程放疗联合新辅助化疗治疗中低位局部进展期直肠癌效果及安全性
分析

..... 郭旭飞(1481)

基于多对多双重筛选逐步回归法进行不同位置食管癌形态学和剂量学的相
关性分析及预测

..... 赵文娟,许碧纯,陈迪,曾福斌,何洁,蓝林臻,曾钰莎,张火俊(1486)

医学影像物理

基于影像学 and 血清学特征构建列线图模型对PSA 4~10 ng/mL患者穿刺阳性
的预测价值

..... 梁建嫦,吴锦锋,张泳欣,沈俊鑫,陈振杰,
谭健,钟睿,赵卫,卢扬柏,袁润强(1494)

基于全尺度通道特征聚合编解码网络的肺结节分割算法

..... 谢绍鹏,王明泉,耿宇杰,黄心玥,商然(1501)

能谱CT和影像组学无创评估大鼠肝纤维化

..... 国亚新,满高才,龚秀茹,石齐,张闽光(1509)

融合上下文注意力的两段式生成对抗网络的肺结节图像生成与分类

..... 尹智贤,夏克文,张昭,贺紫平(1517)

磁敏感加权成像与动脉自旋标记成像在脑卒中溶栓后脑出血转化的评估价值
.....黄正旺,张水诚,庞杰荣(1532)

医学信号处理与医学仪器

EEG在尼古丁成瘾领域中的应用研究
.....任志伟,马宇欣,薛婷,董芳,程永欣,王娟,董有为,鹿益明,喻大华,袁凯(1537)
植入式医疗电子设备辐射效应的研究进展黄成铭,魏传琦,卓瑜,周永召,刘燕扬,王建涛,张衍(1543)
基于LSTM-Transformer的脑电情感分析王安琪,于超,陈胤玮,郝群(1550)

医学生物物理

结石CT值结合IPS、Toll样受体预测PCNL后尿源性脓毒血症的价值王敏,窦全亮,张一凡,徐郑(1558)
不同入路病灶清除联合植骨内固定术治疗布鲁杆菌性脊柱炎的临床效果李青松,林崇明(1563)

医学生物信息

基于机器学习探究子宫内膜癌免疫微环境与基因表达的关联及其对预后的预测价值
.....林海宏,郭苑莉,潘如,雷南香,曾维红(1568)

医学人工智能

基于人工智能的多模态影像组学特征挖掘及分析软件设计陈业,李翰威,胡德斌,齐宏亮,陈宏文(1578)

责任编辑:陈丽霞
责任校对:黄开颜 谭斯允 薛泽玲
英语校对:谭斯允
编 务:廖艳玲

期刊基本参数:CN44-1351/R * 1984 * M * A4 * 136 * zh * P * ¥ 15.0 * 800 * 17 * 2024-12

Responsible Institution

Southern Medical University

Sponsored bySouthern Medical University
Chinese Society of Medical Physics**Edited by**Editorial Board of Chinese
Journal of Medical Physics**Editor-in-Chief**

HU Yimin

Editorial Director

HUANG Kaiyan

Published byEditorial Department of Chinese
Journal of Medical Physics**Address**School of Biomedical Engineering,
Southern Medical University,
Tonghe, Guangzhou
Postal code: 510515
Tel: 86-20-61648280
Fax: 020-61360581
Http://www.cjomp.com
E-mail: YXWL@263.net.cn
Wechat: cjomp001**Printed by**Printed by Foshan Jinhuacai
Printing Co., Ltd**Domestic Subscription**Post offices all over China
Post office subscription code:
46-259**Overseas Subscription**China National Publishing
Industry Trading Corporation
(P.O.Box. 782, Beijing, China)**Mail Order**Editorial Department of Chinese
Journal of Medical Physics**China Standard Serial Numbering**ISSN 1005-202X
CN 44-1351/R**CONTENTS****Expert consensus**

Expert consensus on the revealing of the medical ethics on patient setup based on the theory of engineering medicine(1453)

GE Yun, YIN Fangfang, WU Hao, WAN Suiren, KONG Dexing, YAN Ziye, YANG Ruijie, YU Dahai, LIANG Jun, SUN Xiangdong, DAI Xiangkun, LI Tantan, JIN Xiance, HUANG Xiaoyan, Wu Jianfeng

Medical radiation physics

Acceptance and commissioning tests for big bore CT simulator and quality control scheme (1460)

WANG Meijiao, LIU Jiacheng, YAO Kaining, GONG Jian, FENG Zhongsu, JIANG Fan, ZHOU Shun, PU Yichen, CHEN Jixiang, WU Hao, DU Yi

Compensatory calculation of radiotherapy interruption based on radiobiological modeling and its clinical application(1473)

SU Huanfan, MA Li, QUAN Enzhuo, DAI Zhitao

Efficacy and safety of preoperative short-course radiotherapy combined with neoadjuvant chemotherapy in the treatment of locally advanced mid-low rectal cancer(1481)

GUO Xufei

Analysis and prediction of the correlations between morphological and dosimetric parameters in different locations of esophageal cancer based on multi-to-multi double screening stepwise regression method(1486)

ZHAO Wenjuan, XU Bichun, CHEN Di, ZENG Fubin, HE Jie, LAN Linzhen, ZENG Yusha, ZHANG Huojun

Medical imaging physics

Predictive value of a nomogram model constructed based on imaging and serological characteristics for prostate biopsy positivity in patients with PSA levels of 4-10 ng/mL(1494)

LIANG Jianchang, WU Jinfeng, ZHANG Yongxin, SHEN Junxin, CHEN Zhenjie, TAN Jian, ZHONG Rui, ZHAO Wei, LU Yangbai, YUAN Runqiang

Lung nodule segmentation algorithm based on full-scale channel feature aggregation coding and decoding network(1501)

XIE Shaopeng, WANG Mingquan, GENG Yujie, HUANG Xinyue, SHANG Ran

Non-invasive assessment of rat liver fibrosis using spectral CT and radiomics(1509)

GUO Yaxin, MAN Gaocai, GONG Xiuru, SHI Qi, ZHANG Minguang

Synthesis and classification of pulmonary nodules using two-stage-based generative adversarial network incorporating contextual transformer(1517)

YIN Zhixian, XIA Kewen, ZHANG Zhao, HE Ziping

Predictive value of susceptibility weighted imaging and arterial spin labeling imaging for cerebral hemorrhage transformation after thrombolysis in stroke(1532)

HUANG Zhengwang, ZHANG Shuicheng, PANG Jierong

Medical signal processing and medical devices

- Application of EEG in nicotine addiction research.....(1537)
REN Zhiwei, MA Yuxin, XUE Ting, DONG Fang, CHENG Yongxin, WANG Juan, DONG Youwei, LU Yiming, YU Dahua,
YUAN Kai
- Review of radiation effects of implantable medical electronic devices(1543)
HUANG Chengming, WEI Chuanqi, ZHUO Yu, ZHOU Yongzhao, LIU Yanyang, WANG Jiantao, ZHANG Yan
- EEG emotion analysis based on LSTM-Transformer(1550)
WANG Anqi, YU Chao, CHEN Yinwei, XI Qun

Medical biophysics

- Predictive value of calculi CT value combined with IPS and Toll-like receptor for urinary sepsis after PCNL(1558)
WANG Min, DOU Quanliang, ZHANG Yifan, XU Zheng
- Therapeutic effect of *Brucellar* spondylitis treated by different debridement approaches and internal fixation with bone grafting
.....(1563)
LI Qingsong, LIN Chongming

Biomedical informatics

- Investigation of the association between endometrial cancer immune microenvironment and gene expression based on machine learning and
its predictive value for prognosis(1568)
LIN Haihong, GUO Yuanli, PAN Ru, LEI Nanxiang, ZENG Weihong

Medical artificial intelligence

- Design of a software for multimodal radiomics features mining and analysis based on artificial intelligence(1578)
CHEN Ye, LI Hanwei, HU Debin, QI Hongliang, CHEN Hongwen

Executive Editor: CHEN Lixia

Executive Proofreaders: HUANG Kaiyan TAN Siyun XUE Zeling

English Editor: TAN Siyun

Editorial Assistant: LIAO Yanling