

Journal of Molecular Imaging

分子影像学杂志

2023
Volume 46
Number 3



- 中国科技核心期刊(中国科技论文统计源期刊)
- 中国学术期刊综合评价数据库(CAJCED)统计源期刊
- 《中国核心期刊(遴选)数据库》收录期刊
- 美国《乌利希期刊指南》(Ulrichsweb)来源期刊

分子影像学杂志

第 46 卷 第 3 期 2023 年 5 月

目 次

临床研究

- 381 无定形钙化良恶性判断的影响因素
王慧,王思奇,娄鉴娟,邹启桂,王守巨
- 398 超声及数字乳腺断层摄影对乳腺囊实性肿块的诊断价值
徐美红,文婵娟,曾辉,潘德润,曾兆东,陈卫国
- 407 全脑加或不加同期推量放疗对大于3个脑转移瘤的疗效
周略,李子煌,樊娟,龚龙,盛阳,杨红丽,李先明,唐娜
- 413 全瘤及瘤周感兴趣体积双区域T1 mapping定量参数结合钆塞酸二钠增强MRI对肝细胞癌微血管侵犯的评估价值
蔡志平,刘子蔚,陈伊凡,刘伟,关星群,陈新杰,李晓虹,胡秋根
- 421 基于差异化网络分析的CT平扫期影像组学模型可有效预测及解释肾透明细胞癌WHO/ISUP核分级
漆安琪,张海捷,殷夫,杨丽洋,崔维维,杨姗姗,文戈
- 431 ¹⁸F-NaF摄取阳性与颈动脉斑块纤维帽破裂之间的相关性
刘昭言,欧阳雪晖,高飞,程齐
- 436 CT混合征、岛征结合NPR对自发性基底节脑出血血肿增大的预测价值
黄鹏,毛洋奇,薛帅帅,陈伟新,龙浩
- 442 MR T1WI影像组学对结核性脊柱炎与布鲁菌性脊柱炎的诊断价值
何雄,陈艳丽,帕哈提·吐逊江,夏雨薇,刘文亚,郭辉
- 448 基于U-net3+的宫颈癌后装治疗中靶区和危及器官位置的预测
李霞,杨磊,杨日赠,吴德华
- 453 肺癌Ki-67表达与CT影像征象及定量参数之间的相关性
张旭阳,任占丽,于楠,张喜荣,贾永军,贺太平
- 458 全身骨显像与SPECT/CT在人类免疫缺陷病毒阴性非结核分枝杆菌感染骨破坏中的诊断价值
梁翔玥,罗安强,赵跃群,李俊红,韦智晓
- 464 MRI动态增强联合扩散加权成像可提高对乳腺良恶性病变的诊断效能
张健楠,杨全新,张妍妍,张博,黄玮
- 470 术前超声检查对甲状腺癌颈侧各区淋巴结转移的诊断效能
王梦丹,章双艳,王建华
- 475 MR诊断男性职业足球运动员小腿肌肉损伤的价值
李静宁,岑黄,崔运能
- 479 迂曲的基底动脉粥样硬化斑块纵轴分布特点
卜玮艺,杨全新,张秋娟
- 483 压力-应变环技术评估多种风湿免疫病患者的左心室做功状况
刘娟,鞠萍,程莲,荣新,孙红光
- 489 MRI影像学特征在生长型BI-RADS 3类乳腺病变中的应用价值
肖伟,陈泽莉,万山,谢滔
- 494 多模态MRI预测中晚期宫颈癌患者对甲磺酸阿帕替尼治疗反应的价值
彭露杏,陆合明,陈甲信,蒋海兰,卢志平,陈钊宏,邓珊,古俊钊,庞强,吴友军,梁萍

- 500 胃超声造影联合经静脉超声造影评估胃癌侵袭及血管新生的价值
史 妹,周历安,符叶柳
- 504 耳内镜下鼓膜修补术对外伤性鼓膜穿孔患者气骨导差及预后的影响
朱荣飞,朱玉博,王雪治,罗 茜,徐艳红
- 508 内科胸腔镜与CT引导下穿刺活检诊断恶性胸腔积液的价值
刘长力,闫晓云,王 倩,苏宁宁,高 叶,杜娟琳
- 513 阴道超声、腹部超声联合β人绒毛膜促性腺激素、孕酮诊断宫外孕的临床价值
杨姝娇,田亚娜,余 影
- 518 早期肺癌组织内支气管、血管CT异常影像与病理对照研究
孙维斌,康 露,聂永红
- 522 高强度聚焦超声消融治疗子宫腺肌病的临床疗效及对患者血清糖类抗原125的影响
薛 颖,杨艳景,祁 洁,徐 锋,赵 健
- 527 基于CT测量的肿瘤体积对非小细胞肺癌患者新辅助化疗疗效的评估价值
张惠玲,张宏伟,何元华
- 532 基于弥散张量成像技术的脑白质病变患者认知功能障碍与脑结构网络变化的关系
高文蓝,周连姬,钟玲玲,黄水兰,何奇檀,覃浩强

技术方法

- 389 动脉瘤性颅内出血的自动检测和血肿分割方法
周海柱,张 东,胡 平,祝新根

综述

- 537 心肌代谢类PET显像剂研究进展
刘子钰,何玉林
- 543 荧光纳米探针在肝癌早期诊疗的研究进展
熊彦凌,李 菁
- 548 光声成像联合光热治疗在肝癌诊治中的应用进展
庄填宇,焦嘉澎,连韵钰,方驰华,黄振驹,曾 宁
- 554 神经影像揭示重度抑郁症的神经回路和肠道微生物群的复杂相互作用
闻俊彦,唐佳渝,文 戈
- 560 深度学习在脊柱影像及诊疗中的应用进展
帕哈提·吐逊江,杨来红,常玉山,何 雄,郭 辉
- 566 基于多模态MRI对颅内动脉粥样硬化的斑块特征、血流动力学、侧支循环及临床疗效评估的应用进展
陈 禹,沈龙山,程 雯,陈刘成,王震寰
- 571 人工智能在影像医学中的实际应用
程 齐,欧阳雪晖

主 编:黎孟枫

编 辑 部 主 任:陈望忠

本期责任编辑:郎 朗

本期技术编辑:刘红艳

本期责任校对:孙昌朋,林 萍,刘红艳,张庭玉

期刊基本参数:CN 44-1630/R*1977*b*A4*160*zh+en*P*Y22:00*1000*34*2023-03

出 版 日 期:2023-05-20

FENZI YINGXIANGXUE ZAZHI

Journal of Molecular Imaging

Volume 46 Number 3 May 2023

Contents

Clinical Research

- 381 Factors affecting the diagnostic performance of suspicious amorphous calcification
WANG Hui, WANG Siqi, LOU Jianjuan, ZOU Qigui, WANG Shouju
- 398 Diagnostic value of ultrasound and digital breast tomosynthesis in breast complex cystic and solid mass
XU Meihong, WEN Chanjuan, ZENG Hui, PAN Derun, ZENG Zhaodong, CHEN Weiguo
- 407 Curative effects of whole brain radiotherapy with or without simultaneous integrated boost for more than 3 brain metastases
ZHOU Lue, LI Zihuang, FAN Juan, GONG Long, SHENG Yang, YANG Hongli, LI Xianming, TANG Na
- 413 Value of quantitative parameters of T1 mapping obtained from volume of interest of tumor and peritumoral combined with gadoxetic acid-enhanced MRI in evaluating microvascular invasion of hepatocellular carcinoma
CAI Zhiping, LIU Ziwei, CHEN Yifan, LIU Wei, GUAN Xingqun, CHEN Xinjie, LI Xiaohong, HU Qiugen
- 421 An unenhanced CT radiomics model using differential network analysis could predict and explain WHO/ISUP grade of clear cell renal cell carcinoma effectively
QI Anqi, ZHANG Haijie, YIN Fu, YANG Liyang, CUI Weiwei, YANG Shanshan, WEN Ge
- 431 Correlation between ¹⁸F-NaF uptake and fibrous cap rupture in carotid plaque
LIU Zhaoyan, OUYANG Xuehui, GAO Fei, CHENG Qi
- 436 Predictive value of CT mixed sign, island sign combined with NPR for the hematoma enlargement of spontaneous basal ganglia hemorrhage
HUANG Peng, MAO Yangqi, XUE Shuaishuai, CHEN Weixin, LONG Hao
- 442 Diagnostic value of MR T1WI imaging omics in tuberculous spondylitis and brucella spondylitis
HE Xiong, CHEN Yanli, Pahati-Tuxunjiang, XIA Yuwei, LIU Wenya, GUO Hui
- 448 U-net3+ network-based prediction of target and dangerous organ location in cervical cancer after-loading therapy
LI Xia, YANG Lei, YANG Rizeng, WU Dehua
- 453 Correlation between the expression of Ki-67 in lung cancer and CT signs and quantitative parameters
ZHANG Xuyang, REN Zhanli, YU Nan, ZHANG Xirong, JIA Yongjun, HE Taiping
- 458 Diagnostic value of whole-body bone scan and SPECT/CT in nontuberculous mycobacterial-infected bone destruction in HIV-negative patients
LIANG Xiangyue, LUO Anqiang, ZHAO Yuequn, LI Junhong, WEI Zhixiao
- 464 Dynamic contrast-enhanced MRI and diffusion-weighted MRI can improve diagnostic efficacy of benign and malignant breast lesions
ZHANG Jiannan, YANG Quanxin, ZHANG Yanyan, ZHANG Bo, HUANG Wei
- 470 Diagnostic efficacy of preoperative ultrasound in cervical lateral lymph nodes metastasis of thyroid cancer
WANG Mengdan, ZHANG Shuangyan, WANG Jianhua
- 475 The diagnostic value of MR for calf muscle injury of professional football players
LI Jingning, CEN Huang, CUI Yunneng
- 479 Longitudinal distribution characteristics of atherosclerotic plaques in the tortuous basilar artery
BU Weiyi, YANG Quanxin, ZHANG Qiujuan
- 483 Evaluation of left ventricular work in patients with different rheumatic immunological diseases using pressure strain loop technique
LIU Juan, JU Ping, CHENG Lian, RONG Xin, SUN Hongguang
- 489 Application value of MRI features in growing BI-RADS class 3 breast lesions
XIAO Wei, CHEN Zeli, WAN Shan, XIE Tao
- 494 Clinical value of multimodal MRI assessment of the response to apatinib mesylate therapy in patients with advanced cervical cancer
PENG Luxing, LU Heming, CHEN Jiaxin, JIANG Hailan, LU Zhiping, CHEN Zhaohong, DENG Shan, GU Junzhao, PANG Qiang, WU Youjun, LIANG Ping
- 500 Value of gastric contrast-enhanced ultrasound combined with intravenous contrast-enhanced ultrasound in evaluating the invasion and angiogenesis of gastric cancer
SHI Mei, ZHOU Li'an, FU Yeliu

- 504 Effect of myringoplasty under otoendoscope on poor air-bone conductivity and prognosis of patients with traumatic tympanic membrane perforation
ZHU Rongfei, ZHU Yubo, WANG Xuezhi, LUO Qian, XU Yanhong
- 508 Value of medical thoracoscopy and CT-guided needle biopsy in the diagnosis of malignant pleural effusion
LIU Changli, YAN Xiaoyun, WANG Qian, SU Ningning, GAO Ye, DU Juanlin
- 513 Clinical value of transvaginal and abdominal ultrasound combined with serum β -human chorionic gonadotropin and progesterone detection in the diagnosis of ectopic pregnancy
YANG Shujiao, TIAN Yana, YU Ying
- 518 Comparative study between abnormal bronchial and vascular CT images and pathology of early lung cancer
SUN Weibin, KANG Lu, NIE Yonghong
- 522 Clinical effect of high-intensity focused ultrasound ablation on adenomyosis and its influence on serum CA125 of patients
XUE Ying, YANG Yanjing, QI Jie, XU Feng, ZHAO Jian
- 527 Evaluation value of neoadjuvant chemotherapy in patients with non-small cell lung cancer based on tumor volume measured by CT
ZHANG Huiling, ZHANG Hongwei, HE Yuanhua
- 532 Relationship between cognitive dysfunction and brain structural network changes in patients with white matter lesions based on diffusion tensor imaging
GAO Wenlan, ZHOU Lianji, ZHONG Lingling, HUANG Shuilan, HE Qidan, QIN Haoqiang

Techniques and Methods

- 389 Automated detection and segmentation method for aneurysmal intracranial hemorrhage
ZHOU Haizhu, ZHANG Dong, HU Ping, ZHU Xingen

Review

- 537 Development of PET imaging agents for myocardial metabolism
LIU Ziyu, HE Yulin
- 543 Research progress of fluorescent nanoprobes in early diagnosis and treatment of liver cancer
XIONG Yanling, LI Jing
- 548 Application of photoacoustic imaging combined with photothermal therapy in the diagnosis and treatment of liver cancer
ZHUANG Tianyu, JIAO Jiapeng, LIAN Yunyu, FANG Chihua, HUANG Zhenju, ZENG Ning
- 554 Neuroimaging reveals complex interplay of neural circuits and gut microbiota in major depressive disorder
WEN Junyan, TANG Jiayu, WEN Ge
- 560 Application progress of deep learning in spinal imaging and diagnosis and treatment
Pahati · Tuxunjiang, YANG Laihong, CHANG Yushan, HE Xiong, GUO Hui
- 566 Progress in the application of multimodal MRI in the assessment of plaque characteristics, hemodynamics, collateral circulation and clinical efficacy of intracranial atherosclerosis
CHEN Yu, SHEN Longshan, CHENG Wen, CHEN Liucheng, WANG Zhenhuan
- 571 Practical application of artificial intelligence in imaging medicine
CHENG Qi, OUYANG Xuehui

Editor-in-Chief: LI Mengfeng

Editorial Director: CHEN Wangzhong

Executive Editor: LANG Lang

Executive Technical Editor: LIU Hongyan

Executive Proofreaders: SUN Changpeng, LIN Ping, LIU Hongyan, ZHANG Tingyu

Publication Date: 2023-05-20



- ★ 中国科技核心期刊(中国科技论文统计源期刊)
- ★ 中国学术期刊综合评价数据库(CAJCED)统计源期刊
- ★ 《中国学术期刊(光盘版)》收录期刊
- ★ 《中国核心期刊(遴选)数据库》收录期刊
- ★ 美国《乌利希期刊指南》(Ulrichsweb)来源期刊

分子影像学杂志
2023年5月20日 第46卷第3期
双月刊 1977年创刊

主 管 单 位 广东省教育厅

主 办 单 位 南方医科大学
编 辑 出 版 《分子影像学杂志》编辑部
510515 广州市广州大道北1838号
电 话: 020-61648176, 61648177 传 真: 020-61648778
网 址: www.j-fzyx.com 电子邮箱: jsmu@smu.edu.cn

主 编 黎孟枫
印 刷 单 位 佛山市金华彩印刷有限公司
国 内 发 行 广东省报刊发行局
发 行 范 围 国内外
国 内 定 购 全国各地邮局
国 外 定 购 中国出版对外贸易总公司(北京782信箱)

ISSN 1674-4500
CN 44-1630/R

国内邮发代号: 46-548

国内定价: 22.00元/册



Journal of Molecular Imaging

Vol.46 No.3 May 2023

Bimonthly, Founded in 1977

Responsible Institution Department of Education of
Guangdong Province

Sponsored by Southern Medical University
Edited and Published by Editorial Department of Journal
of Molecular Imaging, Guangzhou 510515, China

Tel: 86-20-61648176, 61648177 Fax: 86-20-61648778
[Http://www.j-fzyx.com](http://www.j-fzyx.com), E-mail: jsmu@smu.edu.cn

Editor-in-Chief: LI Mengfeng
Printed by Foshan Jinhuacai Printing Co., Ltd
Subscription
Domestic: Local Post Offices
Foreign: China National Publications Trading
Export Corporation (P.O.Box. 782, Beijing, China)

