

实用放射学杂志

SHIYONG FANGSHEXUE ZAZHI

月刊 1985年3月创刊 第39卷 第4期 (总第406期) 2023年4月20日出版

主 管
陕西省卫生健康委员会

主 办
实用放射学杂志社

编 辑
实用放射学杂志编辑委员会

主 编
张 明 崔光彬

社 长
杨军乐

出 版
实用放射学杂志社
西安市环城南路西段20号
海联大厦605室 710068

电 话
社长室 (029)88404722
办公室、广告部
(029)85416563
编辑部、发行部
(029)85416162

E-mail: syfsxzz@sina.com
网 址: www.syfsxzz.com.cn
印 刷
西安盛景印务有限公司

发 行
国内: 中国邮政集团有限公司
陕西省报刊发行局
国外: 中国国际图书贸易集团
有限公司
(北京399信箱, 100044)
代号: M 5986

订 阅
全国各地邮政局
邮发代号: 52-93

邮 购
实用放射学杂志社发行部

定 价
每期 15.00 元, 全年 180.00 元

中国标准连续出版物号
ISSN 1002-1671
CN 61-1107 / R

2023 年版权归实用放射学杂志社所有
如有印装质量问题, 本刊发行部
负责调换

目 次

中枢神经放射学

- 气动式触觉刺激脑功能激活区定位的初步研究..... 郑建民, 朱元强, 王 虹, 等 (519)
- 双源 CT 70 kV 管电压在颈动脉系统短暂性脑缺血发作
一站式检查中的临床价值..... 郑玉劲, 聂吉琰, 梁辉清, 等 (522)
- 原发性失眠患者静息态脑功能局部一致性研究..... 陈 巍, 王 慧, 韩文轩, 等 (526)
- 动脉磁敏感征在急性大脑中动脉闭塞患者血管内治疗
术前诊断价值..... 毛伍兵, 余水全, 洪云恒, 等 (530)

头颈部放射学

- 正常颞颌关节盘 MR 解剖学研究 蔡晓莉, 宋 潇, 强永乾 (534)

胸部放射学

- 类风湿关节炎相关间质性肺病危险因素及疾病进展的
高分辨率 CT 研究 冯钰玲, 张天悦, 冯馨仪, 等 (539)
- 原发性肺滑膜肉瘤的影像表现分析..... 郭晓旭, 雷丽敏, 王 慧, 等 (544)
- CT 影像组学对非小细胞肺癌免疫治疗疗效的
预测价值..... 杜希剑, 章凯敏, 陈 斌, 等 (548)
- CT 增强影像组学联合临床资料构建列线图预测
食管鳞状细胞癌 T 分期 胡逸凡, 宫 悦, 付兰兰, 等 (552)

心血管放射学

- 人工智能在冠状动脉 CT 血管成像对冠心病诊断效能的
研究..... 赵艳红, 苏治祥, 张晓文, 等 (557)
- 基于冠状动脉 CT 血管成像的左心房测量参数在评估
继发性甲状旁腺功能亢进中的价值..... 王之悦, 刘 斐, 刘 剑, 等 (561)
- 心脏 MR T₁ mapping 技术在肥厚型心肌病与高血压性
心脏病的诊断价值 梁学恒, 高世平, 石思玮 (566)

乳腺放射学

- 基于乳腺 X 线及临床特征构建学习模型预测乳腺导管内癌
分子亚型..... 杨凌乔, 杨 俊, 马梦伟, 等 (571)
- 三阴性乳腺癌多征象决策树模型的建立及其
预测价值..... 吕赛群, 高月琴, 植 彪, 等 (575)
- 乳腺成簇环状非肿块样强化病变的 MRI 特征分析
及联合诊断模型建立..... 黄瑞岁, 丁 可, 黄兴旺, 等 (579)

腹部放射学

- 多层螺旋 CT 在消化道迁徙性异物中的诊断价值
及临床分析..... 金泊宁, 卢梦雅, 李洪涛, 等 (584)
- 临床、血清生化及 CT 预测胃肝样腺癌的价值 谷潇雨, 任 帅, 朱 丽, 等 (588)

直肠毛细血管扩张症的 MRI 表现及文献复习	徐 熾,邱士军,李 铿,等(593)
CT 血管成像技术对肝泡状棘球蚴病术前第 2 肝门血管受侵的评价	艾尔肯·艾克拜尔,王 健,苏克奕,等(596)
不同分子亚型肝细胞腺瘤 MRI 特征分析	吴德生,曾祥龙,冯 林,等(600)
泌尿生殖放射学	
MRI 增强实质期诊断子宫内膜癌侵犯宫颈基质的价值	杨维珍,莫志英,李华兵,等(604)
肾嗜酸细胞腺瘤与不同 Fuhrman 分级的 T1 期肾透明细胞癌的 CT 分析与鉴别	丁 健,王立章,张伟强,等(608)
卵巢甲状腺肿 CT、MRI 特征及手术病理对照	武新育,李光明,刘红艳,等(612)
CT 及 MRI 对附睾结核诊断的特征性分析	程 洁,邱小伟,尤四峰,等(615)
骨骼肌肉放射学	
鹅足滑囊影像学解剖及其滑囊炎的 MRI 表现	胡亚雯,周锐志,杨志涛,等(618)
双能量 CT 虚拟去钙技术对骶髂关节炎骨髓水肿的诊断价值	沈 瑞,吴胤贇,李 玲,等(621)
基于胸部低剂量 CT 扫描测量腰椎 CT 值机会性筛查骨质疏松	章玲惠,卢向军,何 东,等(626)
3 种儿童骨龄评估方法一致性比较研究	黄卫保,林剑军,黄华驰,等(631)
小儿放射学	
三维 MRI 在正常婴幼儿大脑皮层发育中的应用	杨晓燕,孙惠苗,李倩云,等(635)
超声心动图与头颅 MRI 对婴幼儿心脏横纹肌瘤的临床应用	张婧婧,陈晓媛,王 宁,等(639)
介入放射学	
瑞替普酶联合导管碎栓技术治疗肺栓塞有效性及安全性分析	唐前辉,张显岚(643)
影像技术学	
能谱 CT MMAR 成像单能量与自适应统计迭代重建算法的最佳组合:模体研究	李贝贝,刘义军,赵明月,等(647)
低管电压联合低剂量高浓度对比剂在头颈部 CT 血管成像中的应用	王绍刚,崔 磊,张 涛,等(651)
不同低剂量扫描条件联合高级模拟迭代重建在咯血患者胸部 CT 血管成像的对比研究	姜 一,秦立新(656)
综 述	
系统性红斑狼疮脑损伤的功能 MRI 研究进展	马 悦,乔鹏飞(660)
上皮样肉瘤的临床、病理和影像学表现	冉姗姗,孙燕萍,洪 楠(664)
部分脾动脉栓塞术的现状与进展	谭 斌,胡继红(667)
高分辨率 MR 血管壁成像在大脑中动脉粥样硬化性狭窄中的应用	王 欢,赵瑞峰(671)
病例报道	
原发性胸壁皮下骨外骨肉瘤 1 例	余秋雨,滕 跃,李勇刚(675)
双乳多发巨大幼年型纤维腺瘤 1 例并文献复习	张 娣,岳倩倩,吴红莲,等(676)
胸椎椎管内痛风石 1 例	温奇霖,金恩浩(678)
尾骨前直肠后球血管肌瘤 1 例	张玥熠,冯莉娟,杨 青(679)
蝶窦颅咽管瘤恶变 1 例	陈 娟,戴 辉,纪 青(680)
蒸汽热塑形微导管栓塞肝癌罕见旁路供血 1 例	陶 钧,闫卫鹏,张朝亚,等(682)
脑、双肺囊虫病 1 例	李 莉(683)
小儿骨巨细胞瘤 1 例	徐志伟,魏思达,吴振斌(684)
成年人 Abernethy 畸形 1 例	戚 轩,王武陵,罗 潇,等(685)
《实用放射学杂志》投稿须知	(封三)

责任编辑 杨全新 责任编辑 杨军乐 校对 高燕青 排版 高丹妮

英文审校 于德新 陈宝莹 任 静 陈 欣 刘 莹 殷 茜 金 梅 秦 越

Responsible Institution

Health Commission of Shaanxi
Province

Sponsor

Periodical Office of Journal
of Practical Radiology

Editing Editorial Department of
Journal of Practical
Radiology

Editor-in-Chief ZHANG Ming
CUI Guangbin

President YANG Junle

Publishing Periodical Office of
Journal of Practical
Radiology

Rm 605, Hailian Mansion, No. 20
South Huancheng Rd, Xi'an
710068, China

Tel Editorial Dept.
(029) 85416563
(029) 85416162

E-mail syfsxzz@sina.com

Website www.syfsxzz.com.cn

Printing

Xi'an Shengjing Printing Co., Ltd.

General Distributor

Domestic: China Post Group
Corporation Limited Distributing
Bureau of Newspapers and
Periodicals of Shaanxi Province
Foreign: China International Book
Trading Corporation P. O. Box
399, Beijing 100044, China Code
No. M 5986

Subscription Local Post Offices
Code No. 52-93

Mail-Order Editorial Department
of Journal of Practical
Radiology

CSSN ISSN 1002-1671
CN 61-1107 / R

Copyright © 2023 by the Periodical
Office of Journal of Practical Radiology

MAIN CONTENTS

Neuroradiology

- Preliminary study on the localization of brain function-related activation regions via pneumatic tactile stimulation ZHENG Jianmin, ZHU Yuanqiang, WANG Hong, et al (519)
- Clinical value of dual-source CT 70 kV tube voltage in one-stop examination of carotid system transient ischemic attack ZHENG Yujin, NIE Jijian, LIANG Huiqing, et al (522)
- Regional homogeneity study of resting-state brain function in patients with primary insomnia CHEN Wei, WANG Hui, HAN Wenxuan, et al (526)
- Preoperative diagnostic value of susceptibility vessel sign in the endovascular treatment of patients with acute middle cerebral artery occlusion MAO Wubing, YU Shuiquan, HONG Yunheng, et al (530)

Head and Neck Radiology

- MR anatomy study of standard temporomandibular joint disc CAI Xiaoli, SONG Xiao, QIANG Yongqian (534)

Thoracic Radiology

- Risk factors and disease progression of rheumatoid arthritis-associated interstitial lung disease evaluated by high-resolution CT FENG Yuling, ZHANG Tianyue, FENG Xinyi, et al (539)
- Imaging features of primary pulmonary synovial sarcoma GUO Xiaoxu, LEI Limin, WANG Hui, et al (544)
- Predicting the efficacy of immunotherapy in non-small cell lung cancer based on CT radiomics DU Xijian, ZHANG Kaimin, CHEN Bin, et al (548)
- Contrast-enhanced CT radiomics combined with clinical data to establish nomogram model for the prediction of T stage of esophageal squamous cell carcinoma HU Yifan, GONG Yue, FU Lanlan, et al (552)

Cardiovascular Radiology

- Study on the diagnostic efficacy of artificial intelligence for coronary CT angiography in coronary heart disease ZHAO Yanhong, SU Zhixiang, ZHANG Xiaowen, et al (557)
- The value of left atrium parameters measured on coronary CT angiography in evaluating patients with secondary hyperparathyroidism WANG Zhiyue, LIU Fei, LIU Jian, et al (561)
- The diagnostic value of cardiac MR T₁ mapping in hypertrophic cardiomyopathy and hypertensive heart disease LIANG Xueheng, GAO Shiping, SHI Siwei (566)

Breast Radiology

- Learning models for predicting molecular subtypes of ductal carcinoma in situ based on mammography and clinical features YANG Lingqiao, YANG Jun, MA Mengwei, et al (571)
- Establishment and predictive value of multi-parameter signs decision tree model for triple-negative breast cancer Lü Saiqun, GAO Yueqin, ZHI Biao, et al (575)
- Analysis of MRI features of clustered ring non-mass enhancement breast lesions and establishment of combined diagnostic model HUANG Ruisui, DING Ke, HUANG Xingwang, et al (579)

Abdominal Radiology

- Diagnostic value and clinical analysis of multi spiral CT for migratory foreign bodies in the digestive tract JIN Boning, LU Mengya, LI Hongtao, et al (584)

The predictive value of clinical parameters, serum biochemical biomarkers and CT findings in gastric hepatoid adenocarcinoma	<i>GU Xiaoyu, REN Shuai, ZHU Li, et al</i> (588)
MRI features and literature review of rectal telangiectasis	<i>XU Yan, QIU Shijun, LI E, et al</i> (593)
CT angiography in preoperative evaluation of vascular invasion at the second hepatic hilum in hepatic alveolar echinococcosis	<i>Aierken • Aikebaier, WANG Jian, SU Keyi, et al</i> (596)
MRI diagnosis of hepatocellular adenoma of different molecular subtypes	<i>WU Desheng, ZENG Xianglong, FENG Lin, et al</i> (600)
Genitourinary Radiology	
The value of MRI enhancement in the diagnosis of endometrial carcinoma invading the cervical stroma in the parenchymal phase	<i>YANG Weizhen, MO Zhiying, LI Huabing, et al</i> (604)
CT analysis and differentiation of renal oncocytoma and T1 stage clear cell renal cell carcinoma with different Fuhrman grades	<i>DING Jian, WANG Lizhang, ZHANG Weiqiang, et al</i> (608)
CT and MRI features of struma ovarii and comparison with surgical and pathological results	<i>WU Xinyu, LI Guangming, LIU Hongyan, et al</i> (612)
Characteristic analysis of CT and MRI in diagnosis of epididymis tuberculosis	<i>CHENG Jie, QIU Xiaowei, YOU Sifeng, et al</i> (615)
Musculoskeletal Radiology	
Imaging anatomy of the pes anserine bursa and its MRI manifestation of bursitis	<i>HU Yawen, ZHOU Ruizhi, YANG Zhitao, et al</i> (618)
Diagnostic performance of dual-energy CT virtual non-calcium technique for bone marrow edema in sacroiliitis	<i>SHEN Rui, WU Yinyun, LI Ling, et al</i> (621)
Opportunistic screening of osteoporosis based on the measurement of CT value of lumbar spine using chest low-dose CT	<i>ZHANG Linghui, LU Xiangjun, HE Dong, et al</i> (626)
A comparative study on the consistency of three methods of bone age assessment in children	<i>HUANG Weibao, LIN Jianjun, HUANG Huachi, et al</i> (631)
Pediatric Radiology	
Application of three-dimensional MRI in cerebral cortex development in normal infants	<i>YANG Xiaoyan, SUN Huimiao, LI Qianyun, et al</i> (635)
Clinical application in combination of echocardiography and brain MRI in infant cardiac rhabdomyoma	<i>ZHANG Jingjing, CHEN Xiaoyuan, WANG Ning, et al</i> (639)
Interventional Radiology	
Efficacy and safety of reteplase combined with percutaneous catheter thrombectomy in the treatment of pulmonary embolism patients	<i>TANG Qianhui, ZHANG Xianlan</i> (643)
Imaging Technology	
The optimal combination of keV and adaptive statistical iterative reconstruction using spectral CT MMAR:phantom study	<i>LI Beibei, LIU Yijun, ZHAO Mingyue, et al</i> (647)
Application of low tube voltage combined with low dose and high concentration contrast media in craniocervical CT angiography	<i>WANG Shaogang, CUI Lei, ZHANG Tao, et al</i> (651)
Comparative study of chest CT angiography in patients with hemoptysis by different low-dose scanning conditions combined with advanced modeled iterative reconstruction	<i>JIANG Yi, QIN Lixin</i> (656)
Reviews	
Advances in functional MRI study of brain injury in systemic lupus erythematosus	<i>MA Yue, QIAO Pengfei</i> (660)
Clinicopathological and imaging findings of epithelioid sarcoma	<i>RAN Shanshan, SUN Yanping, HONG Nan</i> (664)
Research status and progress of partial splenic embolization	<i>TAN Bin, HU Jihong</i> (667)
Application of high resolution MR vascular wall imaging in middle cerebral atherosclerotic stenosis	<i>WANG Huan, ZHAO Ruifeng</i> (671)
Case Reports	
One case: primary extraskeletal osteosarcoma beneath the skin of chest wall	<i>YU QiuYu, TENG Yue, LI Yonggang</i> (675)
Bilateral breast multiple giant juvenile fibroadenomas; one case and literature review	<i>ZHANG Di, YUE Qianqian, WU Honglian, et al</i> (676)
One case: intra-spinal canal tophaceous gout of thoracic vertebra	<i>WEN Qilin, JIN Enhao</i> (678)
One case: glomangiomyoma between tailbone and rectum	<i>ZHANG Yueyi, FENG Lijuan, YANG Qing</i> (679)
One case: malignant transformation of sphenoid sinus craniopharyngioma	<i>CHEN Juan, DAI Hui, JI Qing</i> (680)
One case: embolization of rare bypass blood supply in hepatic carcinoma with a steam thermoformed microcatheter	<i>TAO Jun, YAN Weipeng, ZHANG Chaoya, et al</i> (682)
One case: cysticercosis which involved brain and lungs	<i>LI Li</i> (683)
One case: giant cell tumor of bone in children	<i>XU Zhiwei, WEI Sida, WU Zhenbin</i> (684)
One case: Abernethy malformation in adults	<i>QI Xuan, WANG Wuling, LUO Xiao, et al</i> (685)