

# 医学影像学杂志

JOURNAL OF MEDICAL IMAGING

月刊 1990年10月创刊 第20卷 第10期 2010年10月20日出版

中华人民共和国科学技术部批准

主管单位

山东省卫生厅

主办

山东省医学影像学研究会  
山东省医学影像学研究所

编辑出版

《医学影像学杂志》编辑部

250021 济南市经四纬九路37号

电话:0531-87920996 87031478

传真:0531-87920996

电子信箱:xyxz@chinajournal.net.cn

xyxzzz@126.com

网址: <http://xyxz.chinajournal.net.cn>

投稿系统: <http://www.medimg.org>

主编

武乐斌 赵斌

副主编

张运 李传福

柳澄 孙钢

编辑部主任

时季成

学会办公室主任

崔国明

广告经营许可证:

鲁工商广字第3700004000098号

印刷

济南石茂印务有限公司

发行

济南市报刊发行局

订购

全国各地邮政局

邮发代号:24-134

邮购

《医学影像学杂志》编辑部

250021 济南市经四纬九路37号

国内定价

每期10元 全年120元

中国标准刊号

ISSN 1006-9011

CN 37-1426/R

## 目次

### 论著

- 正常人双侧大脑半球语言中枢区常见代谢物的<sup>1</sup>H-MRS研究  
..... 赵霞,王宁,关宝枝,等(1405)
- 瘀血性脑血管病的脑血流灌注改变:初步经验  
..... 于本霞,刘奉立,高波,等(1408)
- 新生儿低血糖脑损伤的MRI诊断(附7例分析)  
..... 王龙胜,郑德生,郑龙,等(1411)
- 颈动脉体瘤的多层螺旋CT表现及诊断价值  
..... 陈高宏(1415)
- 可逆性后部脑病综合征的不典型影像学表现  
..... 张鸿举,高波(1418)
- 磁共振弥散加权成像在新生儿缺氧缺血性脑病的诊断价值  
..... 卢陈英,吕桂坚,纪建松,等(1422)
- 磁敏感加权成像对颅内多发海绵状血管瘤的诊断价值  
..... 谢国华,张传臣,徐金法,等(1425)
- 颈动脉超声和DSA对颅外段颈动脉狭窄诊断的对比研究  
..... 杨浩,邹文英,尹家保,等(1428)
- 二维及彩色多普勒超声在甲状腺癌诊断中的应用及价值  
..... 胡桂成,燕锦虎,马国勇,等(1431)
- 应变率成像技术评估圆锥动脉干畸形术后右心室功能  
..... 衣晓蕾,张玉奇,张志芳,等(1434)
- 超声心动图对婴儿完全性肺静脉异位连接的诊疗价值  
..... 金岩,王辉山,方敏华,等(1438)
- 肺腺鳞癌的多层螺旋CT表现(附12例分析)  
..... 王晓岩(1441)
- 呼吸双相对比胸片在儿童实变性支原体肺炎的应用初探  
..... 李志磊,赵长安,全勇,等(1443)
- 螺旋CT动态增强扫描在非小细胞肺癌中的应用价值  
..... 李功杰,乔鹏岗,田宁,等(1446)
- 肺淋巴管肌瘤病的临床及多层螺旋CT特点分析  
..... 曾祥民,巴照贵,赵绍宏(1449)
- 乳腺摄影与超声弹性成像对乳腺疾病诊断的对比性研究  
..... 李云凌,赵斌,冯鑫至(1452)
- 乳腺导管造影对乳腺溢液性疾病诊断的临床价值  
..... 贾鹏起,包洪靖(1456)
- 乳腺病变的彩色多普勒超声、超声弹性成像与X线钼靶的诊断价值  
..... 范晓芳,丁勇俊,王卫理,等(1459)
- 早期胃癌气-钡双对比造影检查与胃镜对照分析  
..... 李春卫,王道才,张安忠,等(1464)

[期刊基本参数]CN37-1426/R\*1990\*m\*A4\*1405\*zh\*P\*10.00\*4000\*59\*2010-10

本刊如有印装质量问题,请将原杂志寄回编辑部,由本刊负责调换。

多层螺旋 CT 肝动脉成像的临床应用 .....	张丽敏,黄崇权,滕陈迪,等(1467)
面积测量法 MR 胰胆管水成像在梗阻性黄疸病因诊断中的应用价值研究 .....	纪志英,韩景娟,秦昕东,等(1471)
胰腺脂肪浸润的 CT 诊断及临床相关性分析 .....	李晓阳,邢国凤,赵 林,等(1475)
兰州地区成人脾脏容积多层螺旋 CT 测量 .....	张 洲,张乐石,宋 峰,等(1478)
多层螺旋 CT 低张小肠造影的临床应用价值 .....	斯 洋,洪瑞镇,黄崇权(1482)
多层螺旋 CT 结肠充气成像诊断结肠癌的影像与病理对照研究 .....	韦 琳,蒙家彦,谭俊扬(1485)
多层螺旋 CT 排便造影技术的初步临床应用 .....	王丽娜,刘宏琪,翁文采,等(1488)
64 层螺旋 CTA 对变异肾动脉与主肾动脉和对应肾脏的研究 .....	龙德云,陈和平,赵新国,等(1492)
直肠内线圈 MR 在前列腺癌诊断中作用;肿瘤位置和分期 .....	朱 斌,张 冰,李 茗,等(1496)
联合应用 MR 动态增强及 T <sub>2</sub> WI 对 I、II 期子宫内肌瘤的诊断价值 .....	田净丽,汤光宇,王 非,等(1500)
胎盘植入保守治疗的彩色多普勒超声表现 .....	王 伟,李克勤(1503)
经阴道彩超诊断流产后宫腔角残留的应用价值 .....	马虹艳(1506)
MSCT 在腕关节外伤中的应用 .....	王向东,柳 曦,刘永华,等(1508)
多层螺旋 CT 膝关节低剂量扫描对影像质量的影响 .....	黄爱琴,贾 彬,刘 娟,等(1511)
MSCT 血管成像对静脉畸形骨肥大综合征的诊断价值 .....	李国岩,王玉林(1514)
应用 FRAX 软件进行骨折风险和骨质密度的相关性研究 .....	巴 蕾,靖立新,陈素明,等(1516)
基于 PLC 控制的蠕动泵式核素药物自动稀释分装仪的研制 .....	李广义,刘 峰,项茂琳(1520)
滑膜软骨瘤病 MRI 与病理对照分析 .....	张 刚,沈比先,谢井文,等(1524)
膝关节内侧副韧带损伤的 MRI 诊断价值 .....	章跃武,朱希松,吴渭贤,等(1527)
软组织恶性纤维组织细胞瘤的临床影像学诊断 .....	郝万江,张 雷,汪敬群,等(1530)
MR 扩散加权成像对脊柱单纯性与病理性骨折的鉴别诊断 .....	翁绳和,林征宇,邓秀芬,等(1534)
四层螺旋 CT 下肢动脉造影常规扫描参数优化研究 .....	马 玉,王建国(1538)
多层螺旋 CT 三维重建技术对下肢深静脉血栓的诊断价值 .....	王树全(1542)
脑动静脉畸形介入治疗并发症的观察与护理 .....	王 琨,薛 艳(1545)

## 研究生园地

多层螺旋 CT 阴性法胰胆管成像与 MRCP 结合 MRI 诊断胆总管结石的对比分析 .....	马跃虎,殷信道,顾建平,等(1548)
宫腔声学造影、宫腔镜与组织病理学对子宫内膜息肉诊断的一致性研究 .....	孟 君,马 琳(1553)

## 影像技术

应用刃边法测试计算机 X 线摄影系统预采样 MTF .....	张梦龙,姜维维,费晓飞(1556)
多层 CT 螺距与 z 轴空间分辨率的关系探讨 .....	刘传亚,张建春,吕守臣(1559)

## 综 述

影像技术在乳腺癌内乳淋巴结转移检测方面的研究进展 .....	安绍宇,刘 健(1562)
卵圆孔未闭的影像学检查及其临床特征的研究进展 .....	姜相森,孙 钢(1565)
椎管内淋巴瘤的影像学研究进展 .....	张谷青,李传福(1568)

## 论著摘要

血管回声跟踪技术在评价糖尿病患者颈动脉弹性功能中的应用价值 .....	孟令洋,何健华,孙许锋(1571)
多层螺旋 CT 重建技术在腰椎间盘射频靶点热凝术中的应用 .....	刘 奎,于明光,马 亮,等(1572)
高频超声对小儿美克尔憩室的诊断价值 .....	刘庆华,李 杰,张文花,等(1574)
冠状动脉瘘与巨大冠状动脉瘤的影像学诊断 .....	李 森,张建军(1575)

## 短篇报告

超声诊断肢体神经鞘瘤 1 例 .....	张艳梅,杨庆刚,谢树庆,等(1437)
左侧颈总动脉走行扭曲 1 例 .....	刘胜华,姚庆林,周 政(1463)
彩超诊断心肌梗死后室间隔穿孔 1 例 .....	王巧玲,牛乐君(1470)
手隆突性皮炎纤维肉瘤 1 例 .....	许孟君(1541)
颅内神经梅毒树胶肿 1 例 .....	姜纪祥,李 军(1519)

消 息 .....	(1421,1433,1445,1505,1537,1547,1552,1570)
-----------	---

责任编辑: 时季成

英文编辑: 李建峰

责任排版: 季维秋

# JOURNAL OF MEDICAL IMAGING

Monthly      *Start publication in Oct 1990*      Volume 20      Number 10      Oct 20, 2010

## Approval

Ministry of Scientific Technology,  
China

## Responsible Institution

Shandong Provincial Health Bureau

## Sponsor

Shandong Provincial Medical Imaging  
Research Society  
Shandong Provincial Medical Imaging  
Research Institute

## Editing and Publishing

Editorial Board of Journal of Medical  
Imaging  
250021 Jingsi-Weijiu Road No 37,  
Jinan  
Tel: 0531-87920996  
0531-87031478  
Fax: 0531-87920996  
E-mail: xyxz@chinajournal.net.cn  
xyyxxzz@126.com  
http://xyxz.chinajournal.net.cn

## Editor-in-Chief

WU Le-bin    ZHAO Bin

## Associate Editor

ZHANG Yun    LI Chuan-fu  
LIU Cheng    SUN Gang

## Managing Director

SHI Ji-cheng

## Chief of Office, Research Society

CUI Guo-ming

## Printing

Shimao Printing Business Co. Ltd.  
Jinan

## Distributor

Jinan Newspaper and Magazine  
Distribute Office

## Order

Post Office in Everywhere, China  
CN24-134

## Mail-Order

Editorial Board of Journal of Medical  
Imaging  
250021 Jingsi-Weijiu Road No 37,  
Jinan

## CNNS

ISSN 1006-9011  
CN 37-1426/R

## CONTENTS

### Articles

- <sup>1</sup>H-MRS study of common metabolites in bilateral language center of normal cerebral hemispheres ..... ZHAO Xia, WANG Ning, GUAN Bao-zhi, et al (1405)
- Cerebral blood perfusion changes in congestive cerebral vascular disease: initial experiences ..... YU Ben-xia, LIU Feng-li, GAO Bo, DONG Jian-jun (1408)
- The MRI diagnosis of brain injury due to neonatal hypoglycemia (report of 7 cases) ... WANG Long-sheng, ZHENG Sui-sheng, YAN Long, et al (1411)
- The morphologic features and value of multidetector row helical CT on carotid body tumor ..... CHEN Gao-hong (1415)
- Posterior reversible encephalopathy syndrome: atypical radiologic findings and radiologic findings with investigation of its pathogenesis ..... ZHANG Hong-ju, GAO Bo (1418)
- Diagnostic value of MR diffusion-weighted imaging in neonatal hypoxic-ischaemic encephalopathy ..... LU Chen-ying, LU Gui-jian, JI Jian-song, et al (1422)
- Diagnostic value of SWI in intracranial multiple cavernous hemangioma ..... XIE Guo-hua, ZHANG Chuan-chen, XU Jin-fa, et al (1425)
- Comparative study of ultrasound and DSA on extracranial carotid stenosis ... YANG Hao, ZOU Wen-ying, YING Jia-bao, et al (1428)
- The value of color Doppler in the diagnosis of thyroid cancer ..... HU Gui-cheng, YAN Jin-hu, MA Guo-yong, et al (1431)
- Evaluation of right ventricular function in children with conotruncal defects after operation with strain rate imaging ..... YI Xiao-lei, ZHANG Yu-qi, ZHANG Zhi-fang, et al (1434)
- Value of the clinical diagnosis and treatment in infants with total anomalous pulmonary venous connection ..... JIN Yan, WANG Hui-san, FANG Min-hua, et al (1438)
- Helical CT manifestations of adenocarcinoma of the lung (report of 12 cases) ..... WANG Xiao-yan (1441)
- Mycoplasma pneumoniae pneumonia with consolidation in children: the role of dual-respiratory-phase chest plain film ..... LI Zhi-lei, ZHAO Chang-an, QUAN Yong, et al (1443)
- The value of dynamic enhanced CT in non-small cell lung cancer ..... LI Gong-jie, QIAO Peng-gang, TIAN Ning, et al (1446)
- Clinical and MSCT feature analysis of pulmonary lymphangioliomyomatosis ..... ZENG Xiang-min, BA Zhao-gui, ZHAO Shao-hong (1449)
- Comparison study of mammography and ultrasonography with sonographic elastography for the diagnosis of breast lesion ..... LI Yun-ling, ZHAO Bin, FENG Xin-zhi (1452)
- The clinic value of breast galactography on diagnosis of disease with galactorrhea ..... JIA Peng-qi, BAO Hong-jing (1456)
- Discuss the value of color Doppler flow imaging, Ultrasonic elastography and mammography in breast disease ..... FAN Xiao-fang, DING Yong-jun, WANG Wei-li, et al (1459)
- Early gastric carcinoma: A correlative study of double-contrast barium examination and endoscopy ..... LI Chun-wei, WANG Dao-cai, ZHANG An-zhong, et al (1464)
- The clinical application of hepatic artery multi-spiral computed tomographic angiography (MSCTA) ..... ZHANG Li-min, HUANG Chong-quan, TENG Chen-di, et al (1467)
- The study of the method of MRCP with area measurement in aetiological diagnosis of obstructive jaundice ..... JI Zhi-ying, HAN Jing-juan, QIN Xin-dong, et al (1471)
- CT imaging features of fatty infiltration in pancreas with clinical findings ... LI Xiao-yang, XING Guo-feng, ZHAO Lin, et al (1475)
- Measurement of normal splenic volume from adults in Lanzhou area by multislice spiral CT ..... ZHANG Zhou, ZHANG LE-shi, SONG Feng (1478)

- Application value of multi-slice spiral CT and hypotonic technique in small intestine diseases ..... SI Yang, HONG Rui-zheng, HUANG Chong-quan (1482)
- MSCT pneumoclon to assess colonic carcinomas; radiologic pathologic correlation ..... WEI Lin, MENG Jia-yan, TAN Jun-yang (1485)
- The preliminary clinical application of multi-slice CT defecography technology ..... WANG Li-na, LIU Hong-qi, WENG Wen-cai, et al (1488)
- Study of variation renal artery and main renal artery and the corresponding kidney by 64-slice CTA ..... LONG De-yun, CENG He-ping, ZHAO Xin-guo, et al (1492)
- The role of MR endorectal coil in the diagnosis of prostate cancer; location and staging of tumor ..... ZHU Bin, ZHANG Bing, LI Ming, et al (1496)
- Value of dynamic contrast-enhanced MR imaging combining with T<sub>2</sub>-weighted imaging in the diagnosis of Endometrial Cancer with stage I and II ..... TIAN Jing-li, TANG Guang-yu, WANG Fei, et al (1500)
- Characteristics of ultrasonic imaging of placenta accreta during therapy of conservation management ..... WANG Wei, LI Ke-qin (1503)
- Application value of transvaginal color Doppler ultrasound on diagnosing scrap residue in the cornu of uterus ..... MA Hong-yan (1506)
- MSCT in diagnosing of traumatic wrist ..... WANG Xiang-dong, LIU Xi, LIU Yong-hua, et al (1508)
- The influence of multi-slice spiral CT low-dose scan on image quality ..... HUANG Ai-ling, JIA Bin, LIU Juan, et al (1511)
- The value MSCT angiography in diagnosis of the klippel-trénaunay syndrome ..... LI Guo-yan, WANG Yu-lin (1514)
- The correlative analysis of bone density and fracture risk by using the software of FRAX ..... BA Lei, XIN Li-xin, CHEN Su-ming, et al (1516)
- Development of an apparatus driven by peristaltic pump and base on PLC controlling for automatic packing and diluting radio-nuclide drugs ..... LI Guang-yi, LIU Feng, XIANG Mao-lin (1520)
- The correlation between MRI and pathologic findings of synovial chondromatosis ..... ZHANG Gang, SHEN Bi-xian, XIE Jing-wen, et al (1524)
- The value of MRI in the diagnosis of medial collateral ligament injury of the knee ..... ZHANG Yue-wu, ZHU Xi-song, WU Wei-xian, et al (1527)
- Clinical imaging diagnosis of malignant fibrohistiosarcoma of soft tissue ..... YU Wan-jiang, ZHANG Lei, WANG Jing-qun, et al (1530)
- MR diffusion-weighted imaging in differentiating simple vertebral compressions with pathologic fractures ..... WENG Sheng-he, LIN Zheng-yu, DENG Xiu-fen, et al (1534)
- Conventional parameter optimization of four spiral CT scan of lower extremity arterial imaging ..... MA Yu, WANG Jian-guo (1538)
- The clinical application value of multi-slice spiral CT three dimensional reconstruction in diagnosing deep venous thrombosis of the lower extremity ..... WANG Shu-quan (1542)
- The nursing care of Onyx embolotherapy for cerebral arteriovenous malformations ..... WANG Kun, XUE Yan (1545)
- Postgraduate Garden Plot**
- Comparison study on negative multislice spiral CT cholangiopancreatography and MR cholangiopancreatography combined with MRI in the diagnosis of choledocholithiasis ..... MA Yue-hu, YIN Xin-dao, GU Jian-ping, et al (1548)
- The study of consistency in diagnosis of endometrial polyp of uterus among sonohysterography, hysteroscopy and histopathology ..... MENG Jun, Ma Lin (1553)
- Imaging Technology**
- Measurement of the presampled MTF of computed radiography using an edge test device ..... ZHANG Meng-long, QI Wei-wei, FEI Xiao-fei (1556)
- Relativity of pitch and z-direction spatial resolution for multi-slice spiral CT system ..... LIU Chuan-ya, ZHANG Jian-chun, LV Shou-chen (1559)
- Reviews**
- The research progress about internal mammary lymph node metastasis in breast cancer by using imaging technologies ..... AN Shao-yu, LIU Jian (1562)
- Advances in imaging and clinical features of patent foramen ovale ..... JIANG Xiang-sen, SUN Gang (1565)
- Advanced applications of imaging in intraspinal lymphoma ..... ZHANG Gu-qing, LI Chuan-fu (1568)
- Summary Articles**
- The clinical value of E-tracking technology in evaluating carotid artery elasticity in patients with diabetes ..... MENG Ling-liang, HE Jian-hua, SUN Xu-feng (1571)
- The application of MPR of CT in lumbar disc radiofrequency thermocoagulation and target ablation ..... LIU Lei, YU Ming-guang, MA Liang, et al (1572)
- Diagnostic value of high-resolution ultrasonography for meckel's diverticulum in children ..... LIU Qing-hua, LI Jie, ZHANG Wen-hua, et al (1574)
- Coronary artery fistulas and giant coronary artery aneurysms ..... LI Miao, ZHANG Jian-jun (1575)
- Reports**
- Nerve sheath tumor of the limbs diagnosed by ultrasound: one case report ..... ZHANG Yan-mei, YANG Qing-gang, XUE Shu-qing, et al (1437)
- Report of a case of the distortion of left common carotid artery ..... LIU Sheng-hua, YAO Qing-lin, ZHOU Zheng (1463)
- Diagnosis of postinfarction ventricular septal perforation by color Doppler echocardiography: one case report ..... WANG Qiao-ling, NIU Le-jun (1470)
- Dermato fibrosarcoma protuberans of hands: one case ..... XU Meng-jun (1541)
- Intracranial syphilitic gumma: one case report ..... LOU Ji-xiang, LI Jun (1519)

Editor-on-Duty: SHI Ji-cheng

English-Editor: LI Jian-feng

Type setting on Duty: JI Wei-qiu