# 中国医学影像技术

CHINESE JOURNAL OF MEDICAL IMAGING TECHNOLOGY

设为首页 | 加入收藏 | 联系我们

2014-05-21 早期三

首页 | 本刊简介 | 编委会 | 收录情况 | 投稿须知 | 期刊订阅 | 稿件查询 | 广告招商 | 会议

张莹莹,徐荣天,刘屹,王欣.BOLD MRI分析肾癌及癌旁肾组织氧合状况[J].中国医学影像技术,2012,28(4):756~759

### BOLD MRI分析肾癌及癌旁肾组织氧合状况

## BOLD MRI in the evaluation of oxygenation level in renal cell carcinoma and adjacent renal tissue

投稿时间: 2011-09-22 最后修改时间: 2011-11-28

DOI.

中文关键词:磁共振成像 肾肿瘤 腺癌,透明细胞

英文关键词:Magnetic resonance imaging Kidney neoplasms Adenocarcinoma, clear cell

基金项目:辽宁省教育厅高等学校科研项目计划(L2010665)。

作者 单位 E-mail

张莹莹 中国医科大学附属第一医院放射科, 辽宁 沈阳 110001; 辽宁省肿瘤医院放射科, 辽宁 沈阳 110042

徐荣天 中国医科大学附属第一医院放射科、辽宁 沈阳 110001 xurongtian@yeah.net

刘屹 中国医科大学附属第一医院放射科, 辽宁 沈阳 110001

王欣 中国医科大学附属第一医院放射科, 辽宁 沈阳 110001

摘要点击次数:382

全文下载次数:117

#### 中文摘要:

#### 英文摘要:

**Objective** To analyze the oxygenation levels of clear cell renal cell carcinoma (CRCC) and adjacent renal tissue with BOLD MRI. **Methods** BOLD MR imaging was performed on 22 patients wit CRCC before surgery. The original images were inputed to the workstation (GE ADW 4.4) for post-process with Functool and measurement of the apparent spin-spin relaxation rate (R2\*) values in different parts, including CRCC lesions, cortex and medulla of adjacent renal tissues, distal renal tissues and contralateral renal tissues. R2\* values of the above locations were analyzed statistically. **R**to The cortical R2\* values of adjacent renal tissues, distal renal tissues, and contralateral renal tissues were lower than those of the medulla (P<0.01). The medullary R2\* values between adjacent renal tissues and distal renal tissues, and between adjacent renal tissues and contralateral renal tissues were statistically different (P<0.01), but the medulla R2\* values between the distal renal tissues and the contralateral renal tissues had no statistical difference (P>0.05). The F values were statistically different tetween CRCC lesions and adjacent renal medulla, as well as between CRCC lesions and the contralateral renal medulla (P<0.05), but no statistical difference among Cl lesions and the cortex of adjacent renal tissues, distal renal tissues, contralateral renal tissues, (P>0.05). **Conclusion** BOLD MRI is of certain value in evaluating the oxygenation levels of CRCC and adjacent renal tissue.

查看全文 查看/发表评论 下载PDF阅读器