## 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

2014-06-12 早期四

|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

王大龙,王欣,梁秀艳,陆佩欧,王文志.胰腺癌<sup>18</sup>F-FDG PET/CT显像及诊断方法[J].中国医学影像技术,2011,27(1):103~107

## 胰腺癌<sup>18</sup>F-FDG PET/CT显像及诊断方法

## <sup>18</sup>F-FDG PET/CT imaging and diagnosis method of pancreatic carcinoma

投稿时间: 2010-05-13 最后修改时间: 2010-07-14

DOI.

中文关键词: 胰腺肿瘤 体层摄影术,X线计算机 正电子发射型体层摄影术 18F 氟脱氧葡萄糖

英文关键词:Pancreatic neoplasms Tomography, X-ray computed Positron-emission tomography Fluorodeoxyglucose F18

基金项目:

 作者
 单位
 E-mail

 王大龙
 哈尔滨医科大学附属肿瘤医院PET/CT中心.黑龙江.哈尔滨 150081
 yulijuan2002@yahoo.com.cn

主欣 哈尔滨医科大学附属肿瘤医院PET/CT中心,黑龙江 哈尔滨 150081
 梁秀艳 哈尔滨医科大学附属肿瘤医院PET/CT中心,黑龙江 哈尔滨 150081
 陆佩欧 哈尔滨医科大学附属肿瘤医院PET/CT中心,黑龙江 哈尔滨 150081

王文志 哈尔滨医科大学附属肿瘤医院PET/CT中心,黑龙江 哈尔滨 150081

摘要点击次数:547

全文下载次数:322

中文摘要:

目的 评价<sup>18</sup>F-FDG PET/CT诊断胰腺癌的价值及分析方法。方法 回顾性分析88例接受<sup>18</sup>F-PET/CT检查的胰腺原发疾病患者资料,其中恶性65例,良性23例,采用目测和半定量方法分析胰腺疾病的PET/CT特点。目测法分别根据病变CT特征、PET摄取程度和PET/CT特点制定CT、PET和PET/CT五级分析方法:定量分析方法主要在PET图像上测量病变的最大标准化摄取值(SUVmax),并与最后诊断结果进行诊断学试验评价。结果 CT、PET及PET/CT目视五分法诊断胰腺癌的灵敏度、特异度和准确率分别为92.31%(60/65)、69.57%(16/23)、86.36%(76/88);90.77%(59/65)、78.26%(18/23)、87.50%(77/88);98.46%(64/65)、91.30%(21/23)、96.59%(85/88)。三种方法的ROC曲线下面积(ROC-AUC)均大于0.90。胰腺癌SUVmax平均值为8.06±2.96,胰腺良性病变SUVmax平均值为3.13±2.09 (t=7.344,P<0.01)。胰腺癌转移组与非转移组SUVmax分别为8.06±3.01和7.23±2.96(t=0.693,P=0.38),以SUVmax=4.65为判断良恶性的阈值,PET诊断胰腺癌的灵敏度和特异度为87.69%和86.96%。结论 <sup>18</sup>F-FDG PET/CT在胰腺癌的诊断上具有较大价值;PET/CT目视五分法是鉴别胰腺良恶性病变较好的方法。

## 英文摘要:

Objective To explore the value of  $^{18}$ F-FDG PET/CT in the diagnosis of pancreatic carcinoma, and to analyze the method of diagnosis. **Methods**  $^{18}$ F-FDG PET/CT was performed in 88 patients with primary pancreatic lesions (65 malignant, 23 benign). The visual assessment and semiquantitative analysis were used to analyze the lesions' PET/CT characteristics. A 5-point rank scale was used for visual assessment according to the CT features, the degree of  $^{18}$ F-FDG uptake and the PET/CT characteristics. The maximum standardized uptake value (SUV $_{max}$ ) was measured for semiquantitative analysis. **Results** The sensitivity, specificity, accuracy with visual assessment was 92.31% (60/65), 69.57% (16/23), 86.36% (76/88) for CT; 90.77% (59/65), 78.26% (18/23), 87.50% (77/88) for PET visual analysis; 98.46% (64/65), 91.30% (21/23), 96.59% (85/88) for PET/CT visual analysis. The areas under the receiver operating characteristics curves (ROC-AUC) were all more than 0.90. The average value of SUV $_{max}$  for malignant lesions (8.06 $\pm$ 2.96) was statistically different from benign lesions (3.13 $\pm$ 2.09, t=7.344, t<0.01), but no statistical difference was found between peripancreatic tissue invasion or metastasis group (8.06 $\pm$ 3.01) and primary pancreatic carcinoma group (7.23 $\pm$ 2.96, t=0.693, t=0.381). With a threshold of 4.65, SUV $_{max}$  showed a sensitivity of 87.69% and a specificity of 86.96% in differentiating malignant lesions from benign lesions. **Conclusion** t=6.75 FPDG PET/CT has important value in the diagnosis of pancreatic malignant tumor, and the 5-point rank scale-visual assessment of PET/CT is an excellent method in differentiating malignant pancreatic lesions from benign lesions.

查看全文 查看/发表评论 下载PDF阅读器

您是第6333018 位访问者

版权所有: 《中国医学影像技术》期刊社

主管单位: 中国科学院 主办单位: 中国科学院声学研究所

地址: 北京市海淀区北四环西路21号大猷楼502室 邮政编码: 100190 电话: 010-82547901/2/3 传真: 010-82547903

京ICP备12000849号-1