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## 多平面重建在癫痫脑PET图像显示与定位诊断中的应用价值

### Multi-planar reconstruction in display and diagnosis of epilepsy focus in brain PET images

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中文摘要:

目的 观察MPR轴-冠位重建对于癫痫患者脑PET图像显示病灶与定位诊断的价值。方法 收集69例癫痫患者的脑<sup>18</sup>F-FDG PET显像数据,分别行MPR轴-冠位和常规轴-冠位图像重建两种重建图像分别行图像质量评分和配对符号秩和检验。根据两种重建图像分别对癫痫灶进行定位分析,分别计算MPR和常规法定位诊断相对于最终诊断的符合率,并进行 $\chi^2$ 检验。结果 R轴-冠位重建图像总评分平均为(9.65±0.63)分,而常规轴-冠位重建图像总评分平均为(8.29±1.34)分,差异有统计学意义( $Z=7.017, P<0.001$ )。69例中,59例MPR定位结果与常规方法一致,10例不一致。MPR法定位和常规法定位的符合率分别为95.65%(66/69)、89.86%(62/69),差异无统计学意义( $\chi^2=0.970, P>0.05$ )。结论 通过矫正图像方位,MPR能够改善癫痫患者颅脑PET图像质量,有助于判定癫痫灶,值得推广。

英文摘要:

**Objective** To observe the value of MRP for display and localization of epilepsy focus in brain PET images. **Methods** Brain <sup>18</sup>F-FDG PET data of 69 epilepsy patients were collected, and MPR conventional axis-coronal image reconstruction were performed. Two kinds of reconstruction images were scored respectively, and Pairs signed rank test was performed. The localization diagnosis was made respectively. The diagnostic coincidence rates of MPR and conventional axis-coronal reconstruction related to final diagnosis were calculated, and Chi-square test between two coincidence rates was made. **Results** The average score of MPR images and conventional axis-coronal reconstruction images was (9.65±0.63) points and (8.29±1.34) points, respectively ( $Z=7.017, P<0.001$ ). Fifty-nine of 69 patients had the same localization diagnosis with both methods, while 10 had different localization diagnosis. The diagnostic coincidence rate of MPR and conventional images was 95.65% (66/69) and 89.86% (62/69), respectively ( $\chi^2=0.970, P>0.05$ ). **Conclusion** MPR can improve the quality of brain PET images of epilepsy patients by correcting the image orientation, and help to determine the epileptic focus, which is worth promoting.

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