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摘要: PET/CT技术迅速发展,很快成为医学影像诊断,特别是肿瘤诊断和研究的热点。通过将PET与CT两种技术整合到同一检查设备上,将不同性质的图像进行同机融合和比较分析,PET/CT实现对病变的解剖形态显示与功能代谢显示的互补结合。PET与CT的结合,提高对肿瘤病灶的定位和定性诊断的准确性,往往因此而改变对患者的诊疗决策。这一技术的进步不仅使得核医学领域充满活力,也引起放射医学界的极大兴趣。本文概述PET和PET/CT在肿瘤学方面的应用现状,分析PET/CT的优势与不足,并对一技术未来的发展趋势进行展望。

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Application of PET/CT in oncology

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Abstract: PET/CT is a new technology that combines positron emission tomography (PET) with x-ray computed tomography (CT), and it has been developing very fast since it was commercially available in 2001. By merging two fundamentally different imaging technologies into a new single device, PET/CT provides simultaneously structural and metabolic (biochemical) information under almost identical conditions. The combination of PET and CT increases diagnostic accuracy and improves clinical management, especially for patients with malignant disease. This review described the application of PET and PET/CT in oncology, and discussed the advantages and disadvantages of PET/CT.

Key words:

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