PET-CT技术的发展现状与展望

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摘 要：PET -CT技术是近年来迅速发展并获得广泛认同的医学影像诊断技术。它将正电子发射断层显像 (PET)技术和计算机断层摄影术(CT)组合到同一设备上 ,将前者功能代谢显像的优势与后者解剖形态显示的优势结合在一起 ,从而使对病变的定位和定性诊断都更加准确。本文在介绍PET与CT结合意义的基础上 ,简单回顾PET -CT的发展过程 ,介绍现有商品化PET -CT的主要设计特点 ,分析其主要设计参数 ,并展望其未来的发展趋势。

关键词：

Positron emission tomography—computed tomography technique:current status and future prospects

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Abstract：Recently,a new technology that combines positron emission tomography(PET)withx-ray computed tomography(CT) is developing very fast It can provide accurately alignedimages of anatomy and function in a single scan,and holds advantages of both In the past 3 years,a number of commercial designs have become available from three major vendors of PET imagingequipment:Siemens(in co-operation with CTI),GE and Philips The paper discussed the advantages of the integration of the two modality,reviewed the historic

Key words：