18F-FDG PET/CT代谢的可重复性研究进展

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Title: Advances in repeatability of 18F-FDG PET/CT metabolism

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摘要: 18F-脱氧葡萄糖(18F-FDG)PET / CT在恶性肿瘤的早期诊断、临床分期、疗效评价、监测复发及肿瘤放疗靶区定位中具有重要价值。为了使PET/CT能够更准确地进行恶性肿瘤的疗效评价，18F-FDG PET / CT代谢的可重复性研究显得尤为重要。本文就传统临床代谢参数值标准化摄取值（SUV）、代谢活性肿瘤体积（MATV）、总病灶糖酵解（TLG）、肿瘤与肝脏比率（TLR）、肿瘤与血液比率(SUR)及近年新兴的PET图像纹理分析等方面的可重复性研究进行概述。

Abstract: 18F-deoxyglucose (18F-FDG) PET/CT is of great value in the early diagnosis,clinical staging,efficacy evaluation,monitoring recurrence and tumor radiotherapy target location of malignant tumors.In order to enable PET/CT to more accurately evaluate the efficacy of malignant tumors,18F-FDG PET/CT metabolic parameter reproducibility studies are particularly important.In this paper,the repeatability of traditional clinical metabolic parameter values such as standardized uptake value (SUV),metabolic active tumor volume (MATV),total lesion glycolysis (TLG),tumor-liver ratio (TLR),tumor-to-blood standard uptake ratio (SUR) and texture analysis of PET images in recent years are summarized.

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