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portant as FDG PET/CT is used to evaluate tumour response as well

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as for diagnosis, prognosis and staging. Therefore both the previous and these new guidelines specifically aim to achieve standardised uptake value harmonisation in multicentre settings. Keywords FDG .PET/CT .Imagingprocedure .Tumour . Oncology .Quantification Preamble

2,500 PET/CT scanners are currently operational in the USA, and the number of clinical PET studies exceeds two million per year. Given the critically important role of PET/CT in oncology, an

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appraisal of the current status and perspectives of PET/CT is warranted. Here we discuss advances in PET/CT instrumentation and describe the information that

**EDUCATION EXHIBIT 523 An Introduction to PET-CT Imaging<sup>1</sup>**  
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Cancer is one of the leading causes of morbidity and mortality in developed countries such as the United States.

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datasets. PET/CT gains more and more importance in oncology imaging. At the same time, there is greater awareness that the quantitative features of PET may have a major impact in oncology trials and clinical practice. Therefore this guideline focuses on the use of FDG PET/ CT in oncology. Definitions & An integrated PET/CT system is a ...

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in oncologic imaging. Wide-spread introduction into clinical practice started approximately 2.5 years ago. Consequently, the available data are largely

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3 [www.rcr.ac.uk](http://www.rcr.ac.uk) Indications for 18F-fluorodeoxyglucose (FDG)  
PET-CT Oncology applications Brain Identifying the grade of

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malignancy where there is uncertainty on anatomical imaging and functional assessment would assist biopsy. Suspected relapse where magnetic resonance (MR) is equivocal to inform decisions regarding surgery or radiotherapy planning – see below for alternative PET imaging ...

Positron emission tomography (PET) and, more recently, integrated positron emission tomography/X ray computed tomography (PET/CT) have appeared as significant diagnostic imaging systems

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in clinical medicine. Accurate recognition of cancers in patients by means of PET scanning with Fluorine-18-fluorodeoxyglucose (18F-FDG) has illustrated a need to

**Common Causes of False Positive F18 FDG PET/CT Scans in Oncology** Kevin R. Carter\* and Eduard Kotlyarov Michigan State University, POH Medical Center, 50 N. Perry, kcarter99@hotmail.com; Pontiac 48342 - Michigan - USA  
ABSTRACT PET/CT is a common imaging modality used in the

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evaluation of oncology patients. While being extremely sensitive

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The license name syngo.PET&CT Oncology corresponds to the clinical workflow of syngo.via MM Oncology, the CT part of which will be presented in this Tutorial. In the following, we will only use the license name. This table provides you with an overview of the latest software upgrade of syngo.PET&CT Oncology with regard to CT.

Positron emission tomography (PET) and, more recently, integrated positron emission tomography/X ray computed tomography

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