

Functional Imaging In Oncology Clinical Applications Volume 2

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This two-volume book is a practical manual on the various imaging techniques capable of delivering functional information on cancer, including diffusion MRI, perfusion CT and MRI, dual-energy CT, spectroscopy, dynamic contrast-enhanced ultrasonography, PET, and hybrid modalities.

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Functional Imaging in Oncology - Clinical Applications ...

Given that functional imaging tends to measure the molecular, biochemical and physiological changes that are fundamental to cancer processes and are highly likely to alter with successful therapy, it should not be surprising that these imaging techniques may provide a faster and more reliable assessment of response.

Functional Imaging in Clinical Oncology: Magnetic ...

Functional imaging, in particular dynamic contrast-enhanced MRI (DCE-MRI), has a role in differentiating benign from malignant cartilaginous tumors.

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"Over the past several years, molecular and functional imaging tools have advanced to the point where it is now widely used in cancer clinical research," says Dr Lalitha Shankar of the US National...

Risk management plan for functional imaging in cancer ...

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Functional Imaging in Oncology: Clinical Applications ...

We will try to provide the reader with a balanced introduction to one well-known and two newer functional imaging modalities in lung cancer (Table 1), namely integrated positron emission tomography and CT with ^{18}F -FDG (FDG-PET/CT) assessing tissue metabolism, dynamic contrast-enhanced CT (DCE-CT) estimating tumour blood flow and blood volume and diffusion-weighted magnetic resonance imaging (DW-MRI) exploring cellular density (cellularity and the integrity of cell membranes).

Functional imaging in lung cancer - Harders - 2014 ...

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Conventional imaging techniques, such as computed tomography (CT), ultrasound, and magnetic resonance imaging (MRI), play an integral role in the detection of disease at a macroscopic level. However, molecular functional imaging (MFI) techniques entail the visualisation and quantification of biochemical and physiological processes occurring during tumorigenesis, and thus has the potential to play a key role in heralding the transition from the concept of 'one size fits all' to 'precision ...

The Continuing Evolution of Molecular Functional Imaging ...

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Functional magnetic resonance imaging is rapidly evolving as a capable noninvasive assessment tool for oncology to improve diagnosis and to monitor therapy. Current clinical techniques are based on microcirculation imaging using extracellular low molecular weight contrast agents such as gadopentetate dimeglumine and analogues.

Functional Magnetic Resonance Imaging in Oncology for ...

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Steady and rapid advances in imaging in the last few decades have changed oncological disease management today to a multidisciplinary team effort with an exciting role played by the radiologist.

Imaging in oncology: Recent advances

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