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Imaging radiation response 319 Am J Nucl
Med Mol Imaging 2015;5(4):317-332
requires the injection of an exogenous
probe, ^{13}C -MRSI uses hyperpolarized

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agents to increase the detection sensitivity of injected ^{13}C labeled molecules by greater than 10,000 fold [28]. ^{13}C -labeled molecules such as [1- ^{13}C]- pyruvate [29], [1, 4- ^{13}C]-fumarate [30], and L-[5-

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tissue Marjan Rafat, Rehan Ali, Edward E

Graves Department of Radiation

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Accepted May 8, 2015; Epub June 15,

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This review article focuses on the currently used imaging modalities for response assessment in radiation oncology

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Imaging for Response Assessment in
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This review article focuses on the currently used imaging modalities for response assessment in radiation oncology and gives an overview of new and promising techniques within this field. AB - Imaging in radiation oncology is essential for the evaluation of treatment response in tumors and organs at risk.

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Abstract. Patients with metastatic disease are routinely serially imaged to assess disease burden and response to systemic and local therapies, which places ever-expanding demands on our

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healthcare resources. Image interpretation following stereotactic body radiotherapy (SBRT) for spine metastases can be challenging; however, appropriate and accurate assessment is critical to ensure patients are managed correctly and resources are optimised.

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Response assessment following
stereotactic body ...

Medical Imaging - Radiation

Oncology - Review Article. ... Here, we take a critical review of the merits and pitfalls of various imaging modalities, current response assessment guidelines, and explore novel imaging approaches and

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the potential for radiomics to add value in
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Response In Tumor And

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in the management of lung cancer. This review article aims to discuss the role of imaging in precision radiotherapy.

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precision RT in lung cancer is to control all sites of gross disease by the delivery of an anatomically targeted radiation dose sufficient to cause the

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modalities of tumour hypoxia and tumour
cell metabolism, proliferation and
perfusion as predictive biomarkers for
radiation treatment response in head and
neck tumours and in lung tumours.

Validation of functional imaging as a

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Biomarker for ... In Tumor And

In this review, we describe the association of systemic lymphopenia with poor tumor outcome, present evidence that radiotherapy is an important contributing cause of lymphodepletion, describe the systemic immune context of tumor and brain injury that contributes to

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The current standard of care to determine radiation response is an anatomical assessment of tumor volume shrinkage.

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This evaluation is typically performed 6-8 weeks after completion of treatment using X-ray Computed Tomography (CT) or Magnetic Resonance Imaging (MRI).

Optical Imaging Approaches to Investigating Radiation ...

The integration of 18 F-FDG PET/CT

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fusion imaging into radiation treatment planning by taking into account the metabolic and biological characteristics of tumours has been demonstrated to have significant impact on the selection and delineation of irradiation treatment volumes in HNSCC and NSCLC.

46,58–64 However, integration of PET

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images into the radiotherapy planning
process in routine ...

Validation of functional imaging as a
biomarker for ...

Acoustic radiation force based elasticity
imaging methods are under investigation
by many groups. These methods differ

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from traditional ultrasonic elasticity
imaging methods in that they do not
require compression of the transducer, and
are thus expected to be less operator
dependent. Methods have been developed
that utilize impulsive (i.e.

Acoustic Radiation Force Impulse (ARFI)

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been known for more than a century.
Despite considerable advances in our
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This systematic review summarizes the
current applications of ^{18}F -FDG PET
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radiation treatment response assessment, and outcome prognostication of head and neck cancers. For head and neck cancers of unknown primary origin, 18 F-FDG PET/CT increases the likelihood of identifying the primary tumor and establishing the diagnosis.

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