

[DUAL ENERGY CT IN ONCOLOGY%0A](#)



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Dual energy CT in oncology Request PDF

Dual-energy CT represents a great leap in CT technology, with a potential for improvement of the diagnostic performance of CT in oncologic imaging.

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Dual energy CT Radiology Reference Article Radiopaedia org

Dual energy CT utilizes two separate energy sets to examine the different attenuation properties of matter, having a significant advantage over traditional single energy CT. Independent attenuation values at two energy sets can create virtual non-contrast images from contrast-enhanced imaging as well as delineate the composition of renal calculi and arterial plaque 13 .

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Dual Energy CT Scan InsideRadiology

What is a dual energy CT scan? Standard computed tomography (CT) scanners use normal X-rays to make cross-sectional slice-like pictures or images of the body (see InsideRadiology: Computed Tomography). A dual energy CT scanner is fairly new technology that uses both the normal X-ray and also a second less powerful X-ray to make the images. This gives dual energy CT additional advantages over standard CT for a wide range of tests and procedures (see benefits of dual energy CT below).

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Dual energy CT in practice Basic principles and applications

Dual energy CT offers exciting applications and possibilities previously unavailable with conventional single energy CT. The potential benefits of DECT include increased lesion detection and characterization, improved oncologic staging and evaluation of treatment response, and reduced artifacts, all at comparable or even reduced radiation doses.

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Dual Energy CT in Oncology SpringerLink

The aim of this book is fourfold: to describe the basic principles of Dual Energy CT (DECT) imaging, to explain how post-processing is utilized, to critically appraise the strengths and weaknesses of the technique in oncologic imaging, and above all, to demonstrate the contribution of DECT in the management of oncologic patients.

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Dual Energy CT General Principles American Journal of

OBJECTIVE. In dual-energy CT (DECT), two CT datasets are acquired with different x-ray spectra. These spectra are generated using different tube potentials, partially also with additional filtration at 140 kVp. Spectral information can also be resolved by layer detectors or quantum-counting

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Dual Energy CT in Clinical Practice Radiology

Dual-energy computed tomography (CT) is one of the most promising and interesting new technologies in CT. Dual Energy CT in Clinical Practice edited by Thorsten R. C. Johnson, Christian Fink, Stefan O. Sch nberg, and Maximilian Reiser is a comprehensive textbook that provides general background

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Dual Energy CT in Thoracic Imaging Radiology Key

Various acquisition parameters for DE-CTPA have been proposed in the literature. Dual-energy CTPA can be performed using both dual-source CT systems and rapid kilovoltage switching . However, the vast majority of published studies on dual-energy CT lung perfusion imaging have been performed with dual-source CT systems.

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Dual and Multi Energy CT Principles Technical

In dual-energy CT, an additional attenuation measurement is obtained at a second energy, allowing the differentiation of the two materials. Assuming the use of monoenergetic x-rays, at approximately 100 keV the same linear attenuation coefficients can be measured for bone and iodine.

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Dual energy CT in radiotherapy Current applications and

Dual energy CT (DECT) scanners are nowadays available in many radiology departments. For radiotherapy purposes, new strategies using DECT imaging are investigated to optimize radiation treatment for multiple steps in the radiotherapy chain.

<http://ebookslibrary.club/download/Dual-energy-CT-in-radiotherapy--Current-applications-and--.pdf>

Dual Energy Multidetector CT How Does It Work What Can

The ability of current dual-energy CT systems to simultaneously (or near-simultaneously) acquire images at two different energies is the focus of this article, which discusses how dual-energy CT works, the kinds of information it provides, and scenarios in which it may be helpful for abdominopelvic imaging, particularly in the liver, kidneys, adrenal glands, and pancreas.

<http://ebookslibrary.club/download/Dual-Energy-Multidetector-CT--How-Does-It-Work--What-Can--.pdf>

Dual energy CT clinical applications Radiology

Dual energy CT (clinical applications) Andrew Murphy et al. Dual-energy CT is becoming increasingly more common in clinical practice due to the rapid rise in computer technology and expanding literature exhibiting vast advantages over conventional single energy CT.

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Dual Energy CT General Principles ajronline org

In dual-energy CT (DECT), two CT datasets are acquired with different x-ray spectra. These spectra are generated using different tube potentials, partially also with additional filtration at 140 kVp. Spectral information can also be resolved by layer detectors or quantum-counting detectors. Several technical approaches that is, sequential acquisition, rapid voltage switching, dual-source CT

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Recent developments of dual energy CT in oncology

Recent developments of dual-energy CT in oncology Key topics for advanced dual-energy computed tomography (DECT) in oncology are its use in primary diagnostics, therapy planning, tumour detection, tumour characterisation, re-reduction of the radiation dose, and the integration of imaging and therapy. The DECT concept can amply contribute to support oncological imaging

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