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Whole body computed tomography has developed at a rapid pace in the past decade, spurred on by the introduction of spiral and multislice scanning. These new technologies have not only improved diagnostic accuracy, but also made new applications possible that were previously accessible only through more complex or invasive techniques.

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Multislice spiral computed tomography MSCT is a newly emerging non-invasive modality for visualisation of the coronary tree. The high negative predictive values reported by most comparative studies with ICA indicate that MSCT may best be suited for the exclusion of CAD. 9, 11 However, studies have not evaluated this specific indication and no official guidelines for its clinical use exist.

Clinical use of multislice spiral computed tomography in ...

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9783131164810: Spiral and Multislice Computed Tomography ...

Multidetector computed tomography: (MDCT) A form of computed tomography (CT) technology for diagnostic imaging. In MDCT, a two-dimensional array of detector elements replaces the linear array of detector elements used in typical conventional and helical CT scanners. The two-dimensional detector array permits CT scanners to acquire multiple slices or sections simultaneously and greatly increase the speed of CT image acquisition.

Definition of Multidetector computed tomography

Contrast enhanced multislice spiral computed tomography (MSCT) is a promising non-invasive technique for the detection, visualisation, and characterisation of stenotic coronary artery disease. 1 – 4 However, MSCT has relatively poor temporal resolution compared with other methods of non-invasive coronary imaging such as electron beam computed tomography (EBCT) and magnetic resonance imaging. 5 – 7 Therefore MSCT remains sensitive to cardiac motion artefacts. 1, 2, 8

Non-invasive coronary angiography with multislice spiral ...

Spiral computed tomography, or helical computed tomography, is a computed tomography (CT) technology in which the source and detector travel along a helical path relative to the object. Typical implementations involve moving the patient couch through the bore of the scanner whilst the gantry rotates.

Operation of computed tomography - Wikipedia

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Multislice spiral CT is mainly characterized by the three parameters: the number of detector arrays, the detector collimation, and the table increment per x ray source rotation. The pitch in multislice spiral CT is defined as the ratio of the table increment over the detector collimation in this study.

The effect of pitch in multislice spiral/helical CT - Wang ...

In multislice computed tomography (MSCT) or multidetector computed tomography (MDCT), a higher number of tomographic slices allow for higher-resolution imaging. Modern CT machines typically generate 64-640 slices per scan. Manufacturers

CT scan - Wikipedia

Multislice spiral computed tomography is a highly useful imaging modality for severely injured patients. Daher ist es für Patienten , die die Klinik erreichen, lebenswichtig, Blutungen aus großen Gefäßen oder Organen schnell [...] zu diagnostizieren und zu therapieren. springer springer

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