

Multidetector Row Ct Of The Thorax

multidetector ct/cta - advanced medical imaging center - what is multidetector ct/cta?

Multidetector computed tomography (MDCT) is 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.

multidetector-row computed tomography in suspected ... - N Engl J Med 352;17 NEJM April 28, 2005 Multidetector-row CT in suspected pulmonary embolism 1761 Computed tomography (CT) is increasingly being used as the main thoracic

the role of multidetector-row CT in the diagnosis ... - and may be confused with other causes of chest pain, including myocardial infarction. Multidetector-row CT (MDCT) is the current modality of choice for imaging aortic atherosclerosis with a sensitivity and specificity approaching 100%. Early diagnosis and accurate radiological classification is associated with improved clinical outcomes in aortic atherosclerosis.

multidetector-row computed tomography - springer - CT scanners in 1998. Multidetector-row technology caused a worldwide revival of CT. The reason for this revival resides in the amazing technical advancements in the hardware and software offered by these new devices. Today, the latest multidetector-row CT (MDCT) scanners offer the possibility to per-

producing a manual for the multidetector-row computerized ... - multidetector-row CT imaging conditions for lung cancer screening: issues to be discussed to determine optimal imaging conditions 2-1 Basic policy to determine MDCT imaging conditions for lung cancer screening as is the case with single-detector row CT (SDCT), the fundamental principle is

staging of laryngeal cancer using 64-channel multidetector ... - multidetector row CT: comparison of standard neck CT with dedicated breath-hold laryngeal CT K. Gilbert R.W. Dalley N. Maronian Y. Anzai Background and purpose: With a 64-channel multidetector row CT, imaging acquisition during speech, swallowing, or phonation has become feasible. However, the actual benefit of these additional

hepatic imaging with multidetector CT - pubSNA - multidetector computed tomography (CT) represents an advance in CT technology that involves use of a multiple-row detector array instead of the traditional single-row detector array used in spiral CT. This innovation allows scanning four to eight times faster than scanning with spiral CT (1). Because of this faster scanning ability, multidetec-

normal variants of the cerebral circulation at ... - multidetector CT angiogram shows fenestration at the origin of the basilar artery, with the two channels converging at the level of the anterior inferior cerebellar artery (arrow). (8) vertebral artery fenestration. Multidetector CT angiogram shows a small slitlike fenestration of the distal

comparison of flat-panel-detector-based CT and ... - multidetector row CT (MDCT) in automated pulmonary nodule volumetry. An anthropomorphic chest phantom with 31 spherical nodules (nodule diameters of 2.94-10.01 mm; volumes of 13.24-524.97 mm³) was scanned both with an amorphous silicon-based FP-CT scanner, using various tube current and kilovoltage settings, and with a conventional MDCT ...

patient dose in multidetector-row CT - "Dual-source spiral CT with pitch up to 3.2 and 75 ms temporal resolution: image reconstruction and assessment of image quality," Medical Physics. 36, 5641-5653 (2009).

evaluation of prosthetic valve obstruction on ... - cause ct attenuation varies significantly between different manufacturers' multidetector-row scanners and among different generations of multidetector-row ct scanning equipment.28 these data, however, suggest the possibility of differentiation between 2 major causes of pvo, pannus and thrombus, by measuring the ct attenuation using mdct.

split-bolus multidetector-row computed tomography ... - split-bolus multidetector-row computed tomography technique for characterization of focal liver lesions in oncologic patients michele scialpi, 1,* luisa pierotti, 1 sabrina gravante, 1 alberto ...

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a pictorial review of coronary artery bypass grafts at ... - multidetector row ct scanners with submillimeter spatial resolution and high temporal resolution are now available and are increasingly used for noninvasive assessment of vascular disease including coronary arteries and grafts. the entire heart and graft course can be scanned within

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