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Multi Detector Ct Imaging Handbook

Developments in CT technology during the last 20 years have impressively improved its diagnostic potentialities. Part of a two-volume set that covers all aspects of CT imaging, Multi-Detector CT Imaging: Abdomen, Pelvis, and CAD Applications contains easily searchable clinical specialty chapters that provide specific information without need of an index.

Multi-Detector CT Imaging: Abdomen, Pelvis, and CAD ...

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"Today it is difficult to find a book on CT imaging that provides an introduction into state of the art

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Multi-Detector CT Imaging: Principles, Head, Neck, and ...

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Part of a two-volume set that covers all aspects of CT imaging, Multi-Detector CT Imaging: Principles, Head, Neck, and Vascular Systems contains easily searchable clinical specialty chapters that provide specific information without need

Multi-Detector CT Imaging | Taylor & Francis Group

CT, Computed tomography. Initial or primary data reconstruction refers to the first set of axial images reconstructed from a given scan acquisition. The parameters of this reconstruction are specified on the scanner console before scan acquisition. Additional data reconstruction may be performed with a different algorithm or kernel to optimize evaluation of soft tissue, lung, or bone (Figs 2-5 ...

Multidetector Computed Tomography | Radiology Key

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.

Definition of Multidetector computed tomography

In comparison, on a multidetector CT (MDCT) scanner the detector has a matrix array, which consists of a ceramic detector divided into small individual pieces separated by thin metallic septae (29,30). With these scanners, the slice thickness is determined not only by the collimator but also by the detector configuration (Fig. 3).

Differences Between Single Detector and Multidetector CT ...

Multi-Detector CT Imaging: Principles, Head, Neck, and Vascular Systems by Luca Saba. Developments in CT technology during the last 20 years have impressively improved its diagnostic potentialities.

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Multi-Detector CT Imaging by Saba, Luca (ebook)

The multi-slice CT scanner refers to a special CT system equipped with a multiple-row detector array to simultaneously collect data at different slice locations. The multi-slice CT scanner has the capability of rapidly scanning large longitudinal (z) volume with high z-axis resolution. It also presents new challenges and new ...

Multi-slice helical CT: Scan and reconstruction - Hu ...

Multidetector computed tomography (MDCT) is a form of CT technology used for diagnostic imaging (Fig. 4.5). In this MDCT approach, a two-dimensional (2D) array of detector elements replaces the linear array of detector elements used in the typical conventional and helical CT scanners. Sign in to download full-size image Figure 4.5.

Multidetector Computed Tomography - an overview ...

However, the use of multi-detector computed tomography (MDCT) using a low radiation dose protocol for optimal paediatric chest imaging is currently considered the most valuable diagnostic tool available to accurately evaluate the central airway, cardiovascular and mediastinal abnormalities [1 - 5], and the lung parenchyma.

Paediatric multi-detector row chest CT: what you really ...

Paraumbilical hernias are a type of midline ventral abdominal hernia.. Pathology. Paraumbilical hernias occur near the umbilicus when abdominal contents protrude through a defect in the linea alba and can be quite large. They are usually related to rectus abdominis muscle divarication.. Differential diagnosis. umbilical hernia; epigastric hernia

Paraumbilical hernia | Radiology Reference Article ...

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9781439893845 - Multi-Detector CT Imaging

Abstract Cardiac imaging with multiple-row detector computed tomography (CT) has become possible due to rapid advances in CT technologies. Images with high temporal and spatial resolution can be obtained with multiple-row detector CT scanners; however, the radiation dose associated with cardiac imaging is high.

Physics of Cardiac Imaging with Multiple-Row Detector CT ...

"The introduction of multi-detector-row Computed Tomography (CT) in the early 1990s resulted in a fundamental and far-reaching improvement of CT Imaging. For the first time volume of data could be acquired without mis-registration of anatomical details, which indicated the development of three-dimensional image processing techniques.

Multi-detector CT imaging (Book, 2014) [WorldCat.org]

A CT scan, or computed tomography scan, (formerly known as a computed axial tomography or CAT scan) is a medical imaging procedure that uses computer-processed combinations of many X-ray measurements taken from different angles to produce cross-sectional (tomographic) images (virtual "slices") of specific areas of a scanned object, allowing the user to see inside the object without cutting.

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