Review Article

Cardiac Multidetector Computed Tomography: Where Do We Stand?

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ignificant advances in medical technology have made noninvasive cardiac imaging more effective and appealing. This review will describe recent technical developments in cardiac computed tomography (CT) and will evaluate current and potential clinical applications.

Multidetector-row CT (MDCT) scanners: for the noninvasive detection of coronary artery disease (CAD) were introduced in 1999, with the 4-slice scanners that allowed small and rapidly moving structures like the coronary arteries to be visualized with sufficient image quality.1 Soon, the technology advanced further, with the introduction of 16-, 40-, and 64-slice scanners (current systems) and prototype 256- and 320-detector-CT. The new generation of 64 MDCT scanners permitted greater patient coverage per gantry rotation and thus a shorter scan time. Breath-hold time with the current 64-slice scanners is 5-10 s, resulting in less patient discomfort and fewer artifacts induced by respiratory motion or heart rate variability. The shorter acquisition time allows the use of smaller volumes of intravenous contrast material (90-100 ml) and reduces radiation exposure. Recently, dual-source MDCT scanners were launched, having two pairs of X-ray sources and multistice detectors mounted at 90" to each other.2 This technology allows faster scanning and achieves a temporal resolution of 83 ms, thereby limiting motion artifacts caused by rapid heart rates, a problem faced by single source scanners, which required beta blockade in patients with heart rates >65 bpm. Table I illustrates the effect of multiple slices, faster rotation time and dual-source technology on spatial and temporal resolution.

His tory

Retrospective ECG gating

Data acquisition

Cardiac CT is achieved by continuous, lowpitch, spiral scanning (table feed/gantry rotation), with the patient moving at a constant speed through the gantry. This results in oversampling of information across different phases of the cardiac cycle and across several consecutive heart beats. The ECG is recorded simultaneously, allowing retrospective reconstruction of images at any desired phase of the cardiac cycle (usually the one with least cardiac motion). The actual phase used for data reconstruction, quoted as a percentage of the RR interval (e.g. 70%) or absolute time (e.g. 350 ms), can vary for each coronary artery or each coronary segment. Another advantage of retrospective gating is that it permits the reconstruction of data sets at multiple time instants during the cardiac cycle, thereby allowing "dynamic imaging" and functional analysis.

Manuscript received: February 5, 2009; Accepted Miley 20, 2009.

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Table of Contents Multidetector Computed Tomography Technology Advances In Imaging Techniques

- 1. Understanding the eBook Multidetector Computed Tomography Technology Advances In Imaging Techniques
 - The Rise of Digital Reading Multidetector Computed Tomography Technology Advances In Imaging Techniques
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Multidetector Computed Tomography Technology Advances In Imaging Techniques
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Multidetector Computed Tomography Technology Advances In Imaging Techniques
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Multidetector Computed Tomography Technology Advances In Imaging Techniques
 - Personalized Recommendations
 - Multidetector Computed Tomography Technology Advances In Imaging Techniques User Reviews and Ratings
 - $\circ \ \ Multidetector \ Computed \ Tomography \ Technology \ Advances \ In \ Imaging \ Techniques \ and \ Bestseller \ Lists$
- 5. Accessing Multidetector Computed Tomography Technology Advances In Imaging Techniques Free and Paid eBooks
 - Multidetector Computed Tomography Technology Advances In Imaging Techniques Public Domain eBooks
 - Multidetector Computed Tomography Technology Advances In Imaging Techniques eBook Subscription Services

- Multidetector Computed Tomography Technology Advances In Imaging Techniques Budget-Friendly Options
- 6. Navigating Multidetector Computed Tomography Technology Advances In Imaging Techniques eBook Formats
 - o ePub, PDF, MOBI, and More
 - Multidetector Computed Tomography Technology Advances In Imaging Techniques Compatibility with Devices
 - Multidetector Computed Tomography Technology Advances In Imaging Techniques Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Multidetector Computed Tomography Technology Advances In Imaging Techniques
 - Highlighting and Note-Taking Multidetector Computed Tomography Technology Advances In Imaging Techniques
 - Interactive Elements Multidetector Computed Tomography Technology Advances In Imaging Techniques
- 8. Staying Engaged with Multidetector Computed Tomography Technology Advances In Imaging Techniques
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Multidetector Computed Tomography Technology Advances In Imaging Techniques
- 9. Balancing eBooks and Physical Books Multidetector Computed Tomography Technology Advances In Imaging Techniques
 - ∘ Benefits of a Digital Library
 - Creating a Diverse Reading Collection Multidetector Computed Tomography Technology Advances In Imaging Techniques
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Multidetector Computed Tomography Technology Advances In Imaging Techniques
 - Setting Reading Goals Multidetector Computed Tomography Technology Advances In Imaging Techniques
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Multidetector Computed Tomography Technology Advances In Imaging Techniques
 - Fact-Checking eBook Content of Multidetector Computed Tomography Technology Advances In Imaging Techniques

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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