

Coronary Computed Tomography Angiography: Overview of Technical Aspects, Current Concepts, and Perspectives

Carl Chartrand-Lefebvre, MD; Alexandre Cadrin-Chênevert, MD; Edith Bordeleau, MD; Patricia Ugolini, MD; Robert Ouellet, MSc; Jean-Louis Sablayrolles, MD; Julie Prenovault, MD

Abstract

Multidetector-row electrocardiogram (ECG)-gated cardiac computed tomography (CT) will probably be a major noninvasive imaging option in the near future. Recent developments indicate that this new technology is improving rapidly.

This article presents an overview of the current concepts, perspectives, and technical capabilities in coronary CT angiography (CTA). We have reviewed the recent literature on the different applications of this technology; of particular note are the many studies that have demonstrated the high negative predictive value (NPV) of coronary CTA, when performed under optimal conditions, for significant stenoses in native coronary arteries. This new technology's level of performance allows it to be used to evaluate the presence of calcified plaques, coronary bypass graft patency, and the origin and course of congenital coronary anomalies.

Despite a high NPV, the robustness of the technology is limited by arrhythmias, the requirement of low heart rates, and calcium-related artifacts. Some improvements are needed in the imaging of coronary stents, especially the smaller stents, and in the detection and characterization of noncalcified plaques. Further studies are needed to more precisely determine the role of CTA in various symptomatic and asymptomatic patient groups.

Clinical testing of 64-slice scanners has recently begun. As the technology improves, so does the spatial and temporal resolution. To date, this is being achieved through the development of systems with an increased number of detectors and shorter gantry rotation time, as well as the development of systems equipped with 2 X-ray tubes and the eventual development of flat-panel technology. Thus further improvement of image quality is expected.

Abrégé

La tomodescritométrie (TDM) cardiaque à multidétecteurs avec synchronisation électrocardiogramme (ECG) sera probablement bientôt une importante option d'imagerie non invasive. Les développements récents indiquent que cette nouvelle technologie s'améliore rapidement.

Cet article présente un aperçu des concepts, perspectives et capacités techniques actuels de la coronarographie (coro-TDM). Nous avons examiné la documentation récente sur les différentes applications de cette technologie, et nous en particulier les nombreuses études qui ont démontré la valeur prédictive négative (VPN) élevée de la coro-TDM, quand elle est exécutée dans les meilleures conditions, pour des sténoses significatives dans les artères coronariennes natives. Le niveau de rendement de cette nouvelle technologie permet de l'utiliser pour évaluer la présence de plaques calcifiées, la perméabilité des greffes de pontage coronarien, et l'origine et l'évolution des anomalies coronariennes congénitales.

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angiography; catheter coronary

Technical Aspects Of Tomography

RJ Shavelson



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on this day the beatles continued working on hey jude which was rehearsed the day before they recorded seventeen takes numbered takes 7 23 at the end of the session two tape reductions were created and a rough stereo mix was made so that george martin could work on the song s orchestral score which would be

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after two days of rehearsals and rough takes spent on hey jude the beatles moved from abbey road to trident studios to benefit from the eight track recording facilities and record the song in a proper way from the beatles monthly book september 1968 n 62 then on the wednesday we moved from emi to trident which

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after two days of rehearsals and rough takes at abbey road and a day of proper recording at trident studios on this day the beatles completed the recording of hey jude still at trident studios to benefit from its eight track recording facilities from 5 pm to 8 pm the beatles added overdubs onto take 1

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mar 15 2008 on 26 july 1968 played the song to lennon for the first time it wasn t until 1987 that mccartney came to discuss hey jude with julian lennon after a chance encounter in a new york hotel the recording notes for hey jude were bought at auction by julian lennon in 1996 for 25 000

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there was no session on friday july 26 as paul mccartney and john lennon finished writing hey jude as reported by the beatles monthly book september 1968 n 62 on friday july 26 john and paul spent most of the day at paul s house putting the final touches to their latest composition hey jude

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