## 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-low electro-cardiogram (E.C.G.)—garted cardiac computed formography (CT) will probably be a major noninvasive imaging option in the near future. Recent developments incluste that this new technology is improving aspidly.

This article presents an overview of the oursent concepts, perspectives, and technical capabilities in occuracy 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 regardice 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 concernital coronary anomalies.

Despite a high-NPV, the sobustness of the technology is limited by anthythmias, the requirement of low heart rates, and calcium-related artifacts. Some improvements are needed in the imaging of coronary stemts, expecially 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 a symptomatic 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 garnty 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 tomodernitomètrie (TDM) cardisque à multidétecteurs avec synchronisation électrocardisgramme (ECG) sets probablement bient àt 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 coconarographie (poin-TDM). Nous avons examiné la documentation récente sur les différentes applications de cette technologie, et noté en particulier les nombreuses études qui ont démontré la valieur prédictive négative (VPN) élevée de la coro-TDM, quand elle est exécutée dans les meilleures conditions, pour des sténoies significatives claris les artères coronariennes natives. Le niveau de rendement de cette nouvelle technologie permet de l'utiliser pour évaluer la présence de plaques calcilées, la permétabilité des greffes de pontage coronarien, et l'origine et l'évolution des anomalies coronariemnes congénitations. Chartsand-Lefebvre, Cactin-Chitrevert, Bordeleau, Prenovault—Radiology, University of Montreal Medical Centre, Montreal, QC

Bordeleau—Höpital Laval, St-Foy, QC Ugolini, Ouellei—Montreal Institute of Cardology, Montreal, QC

Sattlayrolles—Centre Cardiologique du Nord, Pasis, France

Address for correspondence: Carl Chartend-Lefebvre, Radiology Department, University of Montreal Medical Centre (CRUM), Saint-Luc Hospital, 1058 Saint-Denis Street, Montreal, QC HZV 3J4; phone 514-890-8360 ext 35603; chartrandlef@videoton.ca

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