Reviews in Cardiovascular Medicine

Special Issue

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Advanced techniques and future of cardiovascular imaging

Dear Colleagues,

I am very pleased to invite you to be part of this special Issue entitled "Advanced techniques and future of cardiovascular imaging". This topic represents a fundamental area of intersection between advanced research in the field of imaging and the need of early identification of the atherosclerotic disease, the underlying process of two of the most important causes of death worldwide: ischemic stroke and myocardial infarction.

Despite significant advances in treatment, current conventional screening and diagnostic methods are insufficient to identify the victims before the event occurs even if in the last years the recognition of the role of the vulnerable plaque has opened new windows of opportunity in the field of cardiovascular medicine.

A tremendous evolution in imaging domain has occurred and nowadays Computed tomography (CT) and magnetic resonance (MR) are the main non-invasive tools for plaque analysis both in carotid and coronary arteries, whereas other methods such as optical coherence tomography (OCT), and Intravascular Ultrasound (IVUS) are the main invasive intravascular methods for the assessment of coronary atherosclerosis; conventional Doppler-Ultrasound (US) plays also a major role in the assessment carotid artery atherosclerotic disease.

Until some years ago, imaging exams were mainly "morphological exams" whereas recently we are observing a steady and continuous shift toward the "quantitative imaging". Radiologists are experiencing in their activity the need and potentiality to detect and stratify pathologies according to quantitative values.

Lastly, we should consider as "future" (but near future) the ongoing revolution presently taking place in the imaging field, which is, Artificial Intelligence and its application to the detection and interpretation of the cardiovascular imaging exams. A growing evolution from the simple machine learning algorithms to the newer and more complex deep learning algorithms is adding new potentialities and also role to the AI in the daily and routine application of these process in the diagnostic day-to-day practice.

In conclusion I warmly invite you to be part of this project covering such fundamental topic!

Submission Deadline: 01 October 2021

Submission: https://rcm.imrpress.com

Impact Factor: 0.659

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Message from the Editor-in-Chief

Reviews in Cardiovascular Medicine was launched in 2000 by MedReviews, LLC, in New York, NY. *This journal* was conceived to fill a critical gap for clinicians who were struggling with a rapidly expanding knowledge base in cardiovascular medicine with the convergence of basic science, clinical epidemiology, and therapeutic clinical trials. The founding co-editors were David P. Faxon, MD, past president of the American Heart Association, and Norman E. Lepor, MD, who is considered a luminary in interventional cardiology. The contributing editorial board grew over time and Dr. Peter A. McCullough, MD, MPH ascended from contributing, to associate, to co-editor of *the Journal*. In 2018, *the Journal* took its next big step under the leadership of Dr. McCullough as editor-in-chief to become a truly international publication. Its offices moved to IMR Press in Hong Kong, and the editorial board was made more inclusive and representative of the world-wide contributors in academic cardiology. Additionally, *the journal* brought on expertise in translational medicine to help face the future of molecular medicine and its role in cardiovascular disease. Today *Reviews in Cardiovascular Medicine* is considered a top tier journal in cardiology with timely and comprehensive reviews covering all aspects of cardiovascular medicine including atherosclerosis, myocardial disease, arrhythmias, and valvular heart disease. The scope of papers ranges from population science, applied basic investigation, *in-vitro* diagnostics, and evidence-based strategy and therapeutic trials involving both pharmacologic intervention and interventional devices. The highly integrative style of *the Journal* anchored with evidence tables and instructive figures has garnered many citations over the years and many guidelines documents have relied upon works published in *Reviews in Cardiovascular Medicine*. Supplement and focus issues have been very popular among the readership and often are viewed as the most up-to-date compilations of new knowledge in cardiology and related specialities. The future is bright for academic cardiovascular medicine and *Reviews in Cardiovascular Medicine* is well positioned along side the clinician-investigator in the years to come as a trusted source of critical information and analysis.

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