



3D Printing in Heart and Cardiovascular Disease

Three-dimensional (3D) printing has undergone rapid developments over the last decade with increasing reports in medical applications. Use of patient-specific 3D printed models has shown great value and potential in cardiovascular disease with studies documenting the clinical usefulness in assisting preoperative planning and simulation of complex cardiac surgery procedures, improving our understanding of spatial relationship between complex cardiac anatomical structures and pathologies, enhancing doctor-patient communication and medical education. This special issue aims to create a platform for researchers from different disciplines to share their recent research outputs on 3D printing in heart and cardiovascular disease.

Potential topics include, but not limited to:

- Recent development of 3D printing technologies and printing materials in cardiovascular disease
- 3D printing in heart disease, specifically in congenital heart disease
- 3D printing in cardiovascular disease including surgical planning and treatment
- 3D printing in medical education
- 3D printing in investigation of cardiac CT imaging protocols
- 3D printing in tissue engineering and bioprinting

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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 specialties. 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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