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Application of Cardiac Imaging in Heart Disease

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Message from the Guest Editor

Echocardiography, cardiac CT, cardiac MRI, and nuclear medicine are consolidated diagnostic modalities, and the introduction of dual-source and dual energy CT, photon-counting CT, new MRI sequences and hybrid nuclear imaging has substantially improved the detection and evaluation of cardiac disease.

The possibility to perform stress–rest imaging exams have enlarged the application of cardiac imaging in ischemic heart disease.

In addition, invasive imaging methods such as coronary angiography, transcatheter electrophysiological mapping and cardiac allow not only allow the diagnosis but also the therapeutic approach to ischemic and non-ischemic heart disease.

Finally, the introduction of artificial intelligence into clinical practice is modifying the diagnostic possibilities by assisting specialists in the detection and interpretation of images, improving the diagnostic performance.

The purpose of this Special Issue is to present a wide range of scientific papers including actual cardiac imaging modalities, the latest developments, their actual and future applications in the heart disease and interesting clinical cases of integrated use of the cardiac imaging modalities.



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