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Advances in the Diagnosis and Management of Dilated Cardiomyopathy

Guest Editor:

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Message from the Guest Editor

DCM routine diagnostic aims to characterize cardiac function, morphology, and different etiologies of DCM. AI and ML approaches to data from routine diagnostics, showed the potential of new analytical methodologies to detect the phenotype in an earlier stage. The question remains whether an earlier diagnosis will lead to better survival and whether treatment should be started at such an early stage when there is no clear phenotype yet. Transcriptomic, metabolomic and proteomic datasets are emerging from DCM patients besides the genomic analysis. AI and ML approaches to these large–omic datasets will help to uncover the driving pathophysiology behind DCM and have the potential to detect novel treatment targets. An integrated approach of classic and novel diagnostics will be necessary to stratify patients for the right therapy.

This SI aims to illustrate recent advances in early recognition and diagnosis of DCM and the road toward individualized management for DCM patients. There will be a special focus on the diagnosis and management of family members of DCM patients who are at risk of developing the disease.

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