



Recent Advances in the Diagnosis and Treatment of Myocardial Infarction

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Message from the Guest Editor

Acute myocardial infarction is a major global health concern. Innovations in diagnostic techniques, such as high-sensitivity cardiac troponin and other biomarkers, have facilitated earlier and more accurate diagnosis, enabling prompt intervention. Furthermore, advanced imaging modalities such as MRI and CT are playing an increasingly vital role in this pathology. Rapid reperfusion remains crucial for improving outcomes. Novel pharmacological treatments, including potent and rapid-action antiplatelet therapies and cholesterol-lowering drugs, have further enhanced the treatment landscape. Additionally, the widespread adoption of a new generation of drug-eluting stents has also contributed to enhanced outcomes. More recently, the emergence of diverse and promising devices for mechanical circulatory support has offered additional resources for patients with a poorer prognosis, although evidence regarding their use remains limited. However, despite these advancements, acute myocardial infarction remains a leading cause of death, underscoring the need for further research and innovation in this exciting field.





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