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Utilizing artificial intelligence to enhance the diagnosis and management of cardiovascular disease: a review of current and emerging techniques

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Artificial intelligence (AI) has the potential to revolutionize the diagnosis and management of cardiovascular disease (CVD). By analyzing large amounts of data from various sources, AI algorithms can identify patterns and make predictions that may not be apparent to the human eye. In the realm of CVD diagnosis, AI has been applied to a variety of modalities, including medical imaging, electrocardiography, and genetic data analysis. For example, deep learning algorithms have been trained to analyze CT scans and identify plaque build-up in the arteries, while machine learning models have been developed to predict the risk of CVD based on data from electronic health records and wearable devices.In addition to aiding in diagnosis, AI can also be used to predict the likelihood of future cardiovascular events and guide treatment decisions. For example, machine learning models have been developed to predict the likelihood of a patient experiencing a heart attack or stroke based on data from wearable fitness trackers and smartwatches. Additionally, AI-powered virtual assistants have been developed to assist patients in managing their CVD risk factors, such as by providing personalized recommendations for maintaining heart health. Overall, the use of AI in CVD diagnosis and management has the potential to improve patient outcomes and reduce healthcare costs. This article is aimed to fully realize the potential of these technologies and address.

Biography

N John Camm completed MBBS and MD from India and MRCP (Member, Royal College of Physicians) from UK in 2001. He joined St.Georges Hospital, London, UK as an Interventional Cardiologist in 2002 and has recieved extensive training in Interventional Cardiology. He has been awarded membership of the British Heart Association. He was appointed Editor, Review Board, British Medical Journal. He completed fellowship from RFUMS, North Chicago, IL, USA in 2004, under Dr. Jeffrey B. lakier in Complex Interventions and Harper Hospital, Michigan in Laser Coronary Interventions. He has also received training from Dr. Marie Claude Maurice on Bifurcation lesion. He came to India in January 2006 and set up Wockhardt Heart Centre, Hyderabad. He was appointed “review author” of the International Journal of Cardiology and has published several search papers in International Journals. He has performed more than 18,000 complex cardiovascular interventions including Left Major, TVDs, Branching, CTO and Primary Angioplasty using Laser Interventional Devices, IVL, Rotation, Orbital Ultrasound, Intravascular (IVUS), OCT and Remote Magnetic Nevigation System (Robot Angioplasty). He has been associated with Klinikum Nurenbrg Hospital, Germany as Senior Interventional Cardiologist and Program Manager for the past 12 years.

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