

Artificial intelligence vs cardiologists in stroke-heart syndrome

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Stroke-Heart syndrome is the entire spectrum of functional, morphological and biological cardiac changes as it is acute coronary syndrome, heart failure, arrhythmias and myocardial injury - electrocardiographic and echocardiographic changes and increased troponin levels, which occur in the first 30 days of acute stroke. The incidence of cardiac complications following ischemic stroke usually is 20%. Stroke-Heart syndrome associated with higher 5-year risk of mortality, recurrent stroke and acute myocardial infarction compared with ischemic stroke without cardiac complications.¹

Role of cardiologist in stroke management has three main areas: diagnostics workup of stroke etiology, treatment and prevention of complications and secondary prevention and workup of cardiovascular comorbidity.^{1,2}

Artificial intelligence (AI) is used in the early detection and prevention of stroke by analyzing large datasets and predicting the likelihood of stroke occurrence and in determining the appropriate treatment plan and monitoring patient progress. AI can help cardiologist to personalized management of Stroke-Heart syndrome through prevention and early detection of increased risk of stroke, improve the accuracy and efficiency of diagnosis and patients treatment, and identify any potential complications to save more lives and better quality of life.³

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LITERATURE

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