A team of researchers from Nanyang Technological University, Singapore (NTU Singapore), Ngee Ann Polytechnic, Singapore (NP), and the National Heart Centre Singapore (NHCS) have invented a tool that could speed up the diagnosis of cardiovascular diseases.

Powered by artificial intelligence (AI), their innovation uses electrocardiograms (ECGs) to detect coronary artery disease, myocardial infarction and congestive heart failure to an accuracy of more than 98.5 per cent.

The joint development of the diagnostic tool is timely, as the number of deaths caused by cardiovascular disease in Singapore has increased over the past three years. According to the Singapore Heart Foundation, 29.3 per cent of all deaths in Singapore in 2019, or almost 1 in 4 deaths in Singapore, was due to heart diseases or stroke.

The scientists hope that their innovation could support the diagnosis of cardiovascular diseases in clinical settings, specifically while physicians carry out preliminary ECGs, ultimately leading to speedier courses of treatment.

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Tags: artificial intelligence, cardiovascular, coronary artery disease, diagnosis, disease, heart disease, heart failure, heart foundation, innovation, intelligence, Nanyang Technological Scientists, Singapore, treatment, university

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