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Thailand develops AI-based assessment tool for ischemic stroke

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To assess the chance of stroke caused by heart disease



A research team from the Faculty of Medicine and Faculty of Engineering, Chulalongkorn University, Thailand has jointly developed AICute, an innovative programme to assess the chance of stroke caused by heart disease (Ischemic Stroke), aimed at helping hospitals that lack cardiologists to enhance the effectiveness of stroke treatment, reduce congestion in hospitals and medical schools.

Thailand has approximately 250,000 patients suffering from strokes each year, or one stroke for every 2 minutes. Of these, 30 percent may die, and 30 percent are severely disabled.

"Determining the cause of the disease is important to provide accurate and effective treatment while preventing reoccurrence" said Dr Wasan Akarathanawat, at Chulalongkorn Stroke Center of Excellence.

AICute is a web application with artificial intelligence (AI) to analyse and evaluate patients for the risk of stroke from heart disease. It enables doctors in the community and small hospitals to make decisions and send patients to heart examinations more rapidly, making the treatment of stroke more effective.

AICute's accuracy is at 92-94 percent according to the database of 40,000 high-resolution X-ray images.