

Transforming cardiology with artificial intelligence



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Research

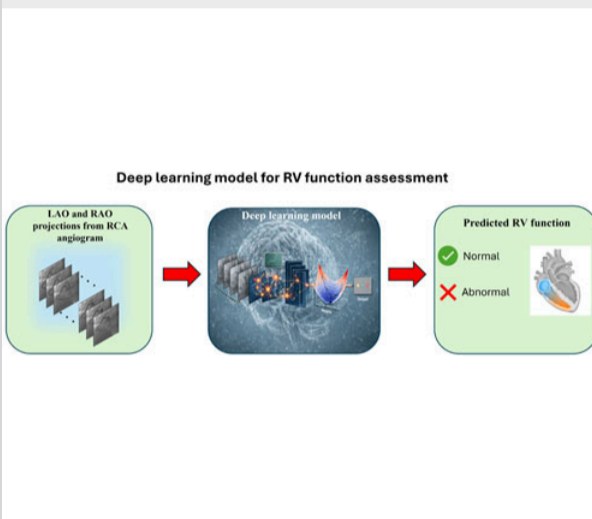
Pericardial adipose tissue segmentation results

Ground truth segmentation	Model prediction Dice score: 0.94	Difference

Applying automated DL-derived PAT measurement helps independently predict cardiovascular events beyond coronary calcium

Mayo Clinic specialists found that a deep learning-based measurement of PAT volume from previous imaging is a predictor of CVD events. The study was published in the American Journal of Preventive Cardiology.

[See the research](#)



Mayo Clinic Cardiovascular Medicine researchers build innovative AI model to detect RV dysfunction from already captured angiography

This first study using AI to extract RV functional information from angiography was published in European Heart Journal — Digital Health.

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Patient Care

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Legacy of Innovation



Heart-lung bypass

A few years before this 1955 Mayo Clinic Proceedings article was published, experts were working on extracorporeal circulation and blood oxygenation. Explore the early beginnings of the mechanical bypass of the heart and lungs apparatus at Mayo Clinic.

[Read the article](#)

Education

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Current Applications and Future of Artificial Intelligence in Cardiology

Oct. 11-14, 2026
Napa, Calif., and Livestream

Designed for clinicians, researchers and technologists, this course examines innovative applications of AI in cardiology. Topics include imaging, data science, ethics and emerging technologies such as digital twins and ambient AI. Now accepting abstract submissions and scholarship applications

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