

BROADCAST- OSF team develops AI-powered tool to improve detection and monitoring of aortic aneurysms

ANCHOR INTRO

A team at OSF HealthCare is using artificial intelligence to help doctors spot dangerous aortic aneurysms sooner—and determine the right time for life-saving surgery. The new technology could make a process much faster and more accurate.

VO or Radio Package

Aortic aneurysms can develop slowly over time, often without symptoms, and can cause death.

Doctors say even the smallest change in size can make a big difference.

That's why researchers at OSF HealthCare are developing an AI-powered tool that creates a detailed 3D model of a patient's aorta from MRI or CT scans.

The software can generate hundreds of precise measurements in about 30 seconds — a process that can take specialists roughly half an hour to do manually.

Pediatric cardiologist Dr. Mathew Bramlet of OSF HealthCare Children's Hospital of Illinois says the goal is to make those measurements faster, more consistent and available to more physicians.

SOT – Dr. Mathew Bramlet (:26)

"If we can capture this aorta and generate those same measurements with fancy new math and machine learning programs we can distribute the expertise that I have accumulated over years and years and years, essentially into a program that would allow this type of analysis to be distributed at a larger scale."

The technology could help doctors spot dangerous aneurysms sooner, track changes over time and make more informed decisions about when surgery is necessary.

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The OSF team is continuing to validate the technology through research as it works toward bringing the tool into clinical use.