

Mayo Clinic Minute

How AI can signal future heart problems

	AUDIO
	This souped-up stethoscope shows artificial intelligence in action.
Title: Paul Friedman, M.D. Cardiovascular Disease Mayo Clinic	"This is where it records sound, and I have it connected to a smartphone."
Graphic: Records: Heart sounds Electrocardiogram	The stethoscope not only digitally records the sounds heard by Dr. Paul Friedman, it also records an electrocardiogram of the heart's electrical activity.
Graphic: Neural network: Computer system Examines readings Becomes expert	The data is run through a neural network — a computer system trained by crunching hundreds of thousands of sets of similar readings, so that it becomes expert in looking at a focused problem.
Paul Friedman, M.D.	"It gets to a point where it gets very good at seeing very subtle patterns."
	The result is a simple test that can read current heart conditions and, using those subtle patterns, predict possible future problems.
Paul Friedman, M.D.	"Within 15 seconds, you have some of the skill of an expert cardiologist in your pocket."
	Dr. Friedman says this type of artificial intelligence in diagnosis is the way of the future.
Paul Friedman, M.D.	"We have plans to expand it, to hopefully prevent people from walking through our hallways, having a weak heart pump and having it undetected, when there are things we could do about it."
	For the Mayo Clinic News Network, I'm Jeff Olsen.