

Artificial intelligence predicts when heart will fail

人工智能程序可预测心脏衰竭

- 請注意：中文文字内容只提供簡體版

科学家们说，人工智能可以预测心脏疾病患者的死亡时间。这种软件能够通过分析验血结果和心跳扫描看出心脏这一器官开始衰竭的征兆。英国医学研究理事会（*Medical Research Council*）的研究小组称，人们可以利用这项科技找出急需积极治疗的患者，从而救助更多人的生命。请听 James Gallagher 的报道。

An **artificial intelligence** can spot patterns that are beyond human **perception**. The software took MRI scans from hundreds of patients with **pulmonary hypertension**. The high pressure in the **blood vessels** and the lungs damages the structure of the heart. The AI used the scans to track the movements of 30,000 separate positions on a beating heart.

This information was combined with blood test data and eight years of medical records. As the **computer programming** learned what to **look out for**, it was able to predict when patients would die. It achieved 80% accuracy for the 12 months after the scan, which is more than doctors can **manage**.

One of the researchers, Dr Declan O'Regan, said that technology could help spot **high-risk** patients who needed to be treated more **aggressively**. Ultimately, the team want to use the technology in a wide range of heart disorders. The British Heart Foundation said the development was exciting, but the next step was to **verify** the findings before AI could be used routinely.

词汇表

artificial intelligence	人工智能，简称 AI
perception	认知
pulmonary hypertension	肺动脉高压
blood vessels	血管
computer programming	计算机程序
look out for	留意，注意
manage	做到，完成（困难的事）
high-risk	高风险的
aggressively	积极主动地，激进地
verify	证实，核实

测验

请听报道并回答下列问题。

1. What was the software able to do based on the knowledge of the patients' condition?
2. What information did the artificial intelligence analyse apart from the patients' MRI scans?
3. True or false? *The software predicted when patients would die with a higher accuracy than doctors.*
4. Which word in the text means 'as a regular part of a procedure or process'?

答案

1. What was the software able to do based on the knowledge of the patients' condition?
Based on the knowledge of the patients' condition, the computer programming was able to predict when they would die.
2. What information did the artificial intelligence analyse apart from the patients' MRI scans?
Apart from the patients' MRI scans, the artificial intelligence analysed blood test data and eight years of medical records.
3. True or false? *The software predicted when patients would die with a higher accuracy than doctors.*
True. The software achieved 80% accuracy for the 12 months after the scan, which is more than doctors can manage.
4. Which word in the text means 'as a regular part of a procedure or process'?
Routinely.