

China tests its first 'AI hospital' with a team of virtual doctors.

Scientists at Tsinghua University have developed Agent Hospital – an AI hospital model with virtual doctors and nurses that can diagnose and process thousands of patient records daily.

A research project in **Beijing** is attracting attention from the technology and medical communities as it introduces an 'AI hospital' model with a team of doctors operating entirely on artificial intelligence. This project is being developed by scientists from **Tsinghua University** , through **the Tsinghua University AI Industry Research Institute** .

The system, called **Agent Hospital** , is designed as a fully digitized healthcare environment where 'AI agents' take on many tasks typically performed by humans in hospitals. According to the research team, the project's goal is to test how artificial intelligence can support and optimize future healthcare systems.

The team of doctors and nurses are entirely AI.

In this experimental model, the 'hospital' is operated by **14 AI doctors and 4 AI nurses** . These systems are not only used to answer basic medical questions but can also participate in many steps of the medical examination and treatment process.

They are capable of receiving patient information, analyzing symptoms, making preliminary diagnoses, and suggesting appropriate treatment options for each case. According to simulation tests, the system achieved **an accuracy rate of approximately 93%** in medical examinations, a result considered quite high for an artificial intelligence platform.

A major advantage of AI-powered hospital models is their ability to process data quickly. The system can analyze **thousands of medical records in a short time** , significantly reducing the burden on often overloaded healthcare facilities.

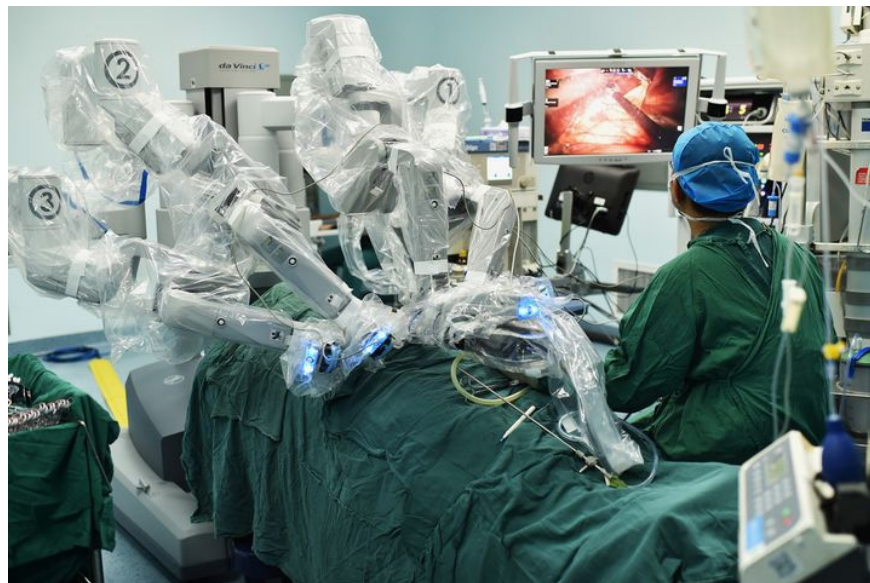
The development team believes this technology could be particularly useful in areas with a shortage of healthcare personnel, such as rural areas or places with limited access to high-quality healthcare.



Towards a hospital model that combines human and AI capabilities.

Currently, the project primarily operates in a digital simulation environment. However, researchers are planning to expand it into a real-world model within the framework of a medical complex currently under construction.

The future model will be a **combination of human doctors and AI systems**, allowing both sides to participate in the medical examination and treatment process. Beyond healthcare services, this facility is also expected to become a research and training center, where medical professionals can learn how to apply AI to treatment procedures.



Ethical and legal questions

Despite its immense potential, the integration of AI into healthcare also raises numerous issues that need addressing. Experts have warned of risks such as **algorithmic bias**, **patient data security**, and **legal liability** if AI systems provide incorrect diagnoses.

Faced with these challenges, the **Chinese** government is considering developing new regulations to ensure that the deployment of AI in healthcare is tightly controlled, transparent, and always subject to human oversight.

With many countries facing aging populations **and** increasing healthcare needs, systems like Agent Hospitals are seen as a crucial experiment for the future of medicine.

If this model proves effective in practice, it could open up a new way of operating hospitals – where technology and people work together to deliver faster, more efficient, and more accessible healthcare services.

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