

AI-based software can diagnose prostate cancer

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Scientists in China have developed an artificial intelligence system that can diagnose and identify prostate cancer samples exactly like any medical researcher. This simplifies and eliminates variation in the diagnosis of cancer.

In the long run, this system can diagnose prostate cancer automatically or partially. Prostate cancer is the most common type of male cancer, with about 1.1 million people diagnosed with the disease each year. Diagnostic confirmation usually requires a biopsy sample, which is then checked by a pathologist.



Now, an artificial intelligence system, presented at the European Urological System Association in Copenhagen, has shown the same level of accurate identification as a recognized medical researcher. In addition, this software can accurately classify malignant levels of cancer blocks.

Hongqian Guo from Nanjing University in China said: "This AI was created not to replace doctors who diagnose the disease. We still need an experienced pathologist to take responsibility. on the final diagnosis that combines previous data from AI, what this system does, will help cancer researchers work better, diagnose faster, as well as eliminate block changes. u by date to be able to give the most accurate, comprehensive assessment.

The researchers obtained 918 full prostate tumor samples from 283 patients and when analyzed, the software gradually learned and improved its diagnostic capabilities.

These pathological images are divided into 40,000 smaller samples; 30,000 of these samples were used to 'train' the software, the remaining 10,000 were used to check the accuracy. The results showed that AI can correctly diagnose 99.38% of cases, effectively as the researchers diagnose diseases.

"This system has been programmed to learn and gradually improved the interpretation of experimental samples. Moreover, it can accurately classify malignant levels of prostate cancer," Guo added. .

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