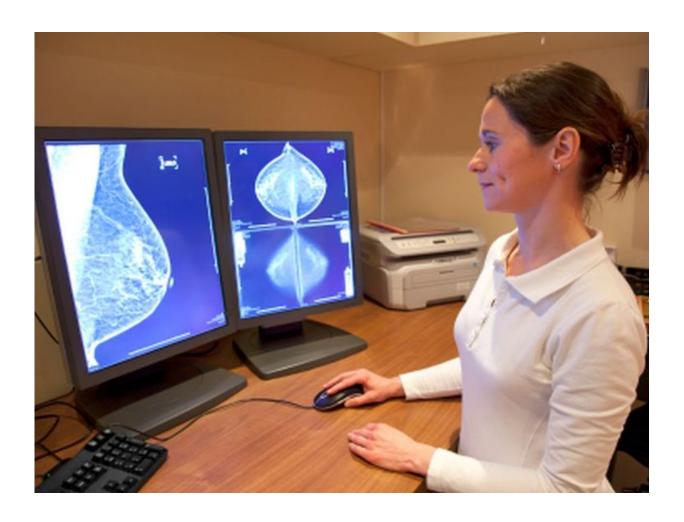


Software speeds up analysis of breast cancer risk: study

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(HealthDay)—Software that quickly analyzes mammograms and patient



history to determine breast cancer risk could save time and reduce unnecessary biopsies, according to the developers of the technology.

The software was used to evaluate mammograms and pathology reports of 500 <u>breast cancer</u> patients. It did so 30 times faster than doctors and with 99 percent accuracy, the Houston Methodist Cancer Center researchers said.

Manual review of 50 patient charts took two doctors 50 to 70 hours, while the software reviewed 500 charts in a few hours, saving more than 500 physician hours, according to the study.

"Accurate review of this many charts would be practically impossible without [artificial intelligence]," said team co-leader Stephen Wong Wong. He's chair of the department of systems medicine and bioengineering.

"This software intelligently reviews millions of records in a short amount of time, enabling us to determine breast cancer risk more efficiently using a patient's mammogram. This has the potential to decrease unnecessary biopsies," Wong said in a cancer center news release.

The study results were published recently in the journal *Cancer*.

About 12 million mammograms are performed each year in the United States, according to the federal Centers for Disease Control and Prevention. Fifty percent yield false-positive results, according to the American Cancer Society, which means one in every two healthy patients is told she has breast cancer.

When mammograms yield suspicious findings, breast biopsies are recommended. More than 1.6 million <u>breast biopsies</u> are performed annually nationwide, but about 20 percent are unnecessarily performed



due to false-positive mammogram results of cancer free breasts, the cancer society says.

This new software may help doctors better evaluate a patient's <u>breast</u> <u>cancer risk</u>, the Houston Methodist researchers said.

More information: The U.S. Office on Women's Health has more about <u>mammograms</u>.

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