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New Multi Cancer Blood Screening Test

By Ray Schilling | breast cancer, Cancer, cervical cancer, leukemia, lung cancer, prostate cancer

A recent publication describes how a new multi cancer blood screening test can diagnose various cancers early. Many years back the same research group at the Johns Hopkins Medical School did lung cancer screening studies. The researchers then were analyzing saliva samples between 1974 and 1982. They identified 15 patients who later developed adenocarcinoma of the lung. The researchers were able to diagnose the lung cancer 1 year prior to what ordinary screening tests could do. This ensured an early diagnosis and early treatment with a better long-term prognosis.

Liquid biopsy promises early cancer detection

The new publication from the Johns Hopkins University in Baltimore, Maryland, is based on the following fact: Cancer cells consist of mutated cells. They shed DNA with mutations typical for this cancer into the bloodstream. By taking blood samples and analyzing the circulating mutated DNA researchers can first establish that the DNA belongs to a certain cancer mutation. But at the same time, they can locate the cancer, if they find mutated DNA. The pathologist can say that the patient has a cancer in a breast, the colon, lungs or ovaries, wherever it is located.

Oncoblot test was a precursor to the multi cancer blood screening test

Around 2014 a cancer screening test came out of the human genome project. It was called the Oncoblot test (scroll down to "background"). It screened for 25 of the most common cancers. And it was screening for ENOX2 proteins from cancer cells. Apparently, this is a fetal protein normally expressed only during fetal life, but in adults only expressed when a cell turns cancerous. It was a 1000 USD test in the US that health plans did not cover. But it screened for more than 25 different common cancers 6 to 8 years before they become clinically manifest: Suddenly around 2017 the Oncoblot test was no longer available. I could not find out the reason for this. Was the test producing too many false positives or false negatives? This would have made this cancer screening test unreliable. Apparently researchers of the Oncoblot test company are attempting to refine the test further.

My own case of prostate cancer

Strangely enough in 2016 I had an Oncoblot test done and it accurately diagnosed that I had prostate cancer. My cancer specialist from Ft. Lauderdale used Doppler ultrasound to visualize it and performed a 3-dimensional prostate biopsy to verify the histology. Subsequently he removed it with ablation cryotherapy, because a study of his involving 70 prostate cancer patients and spanning over 10 years had shown the best survival data. My 3-monthly PSA values since have been negative for recurrent prostate cancer.

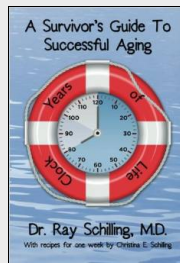
New multi cancer blood screening test from Johns Hopkins Medical School

A review in Science magazine explains the details of the new multi cancer blood screening test. It is called CancerSEEK and is based on 16 common genetic markers that show changes in cancer cells. In addition, the researchers also test for cancer-related proteins, which change when cancer cells are present. The test also indicates the location of the early

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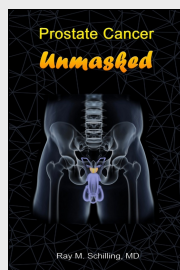
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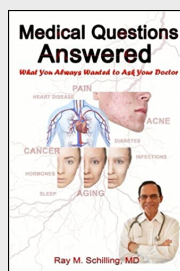
Prostate Cancer Unmasked analyzes 9 different treatment varieties of prostate cancer and their 10-year survival data.

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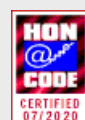
Treating symptoms does not cure the patient, but treating the cause of the illness will. In Healing Gone Wrong - Healing Done Right Dr. Ray Explains it all.

Medical Question Answered



In Dr. Schilling's new book titled Medical Questions Answered. Every question you always wanted to ask your doctor are answered.

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cancer. CancerSEEK can detect about 60% of liver cancers and 100% of ovarian cancer. The researchers tested 812 healthy controls. Only 7 (1%) tested positive for cancer. CancerSEEK also tested 1005 patients who had early cancer.

More details of the CancerSEEK test

The **test detected** between 33% and 98% of cases, which depended on the tumor type. The sensitivity was 69% or higher for stomach, pancreatic, and esophageal cancers; ovarian and liver cancer had a sensitivity of 98%. In 80% of the cases physicians could narrow the positive cancer test to two possible sites. The researchers think that the cost of one CancerSEEK test will be less than 500.00 USD. There is **another study** described where 9,911 participants were enrolled. 25 cancers were found. The diagnosis involved 2 lymphomas, 2 colorectal cancers, one appendix cancer, 2 uterine cancers, one thyroid cancer, one kidney cancer, 9 lung cancers, one breast cancer and 6 ovarian cancers. This study will continue to go on for another 5 years.

Possible problems with the new multi cancer blood screening test

Researchers dubbed the cancer screening test as “liquid biopsies” with the purpose to detect hidden cancers. The smaller the cancer is, the less the cancer cells excrete DNA and cancer proteins into the bloodstream. This means that in some of the early cancer cases the sensitivity of the test could be very small. Because many cancers will be detected much earlier there could be definite cures, if the cancer is in an early stage. On the other hand, Dr. Nickolas Papadopoulos from the Johns Hopkins University in Baltimore, Maryland, said: “The issue is not overdiagnosis, but overtreatment.” Some of the small tumors may never turn into larger tumors and it is justified to observe for a period of time.

A large 5-year clinical study involving up to 50,000 women is the next project to test the CancerSEEK test further. A private philanthropic group, The Marcus Foundation, is funding this project.



New Multi Cancer Blood Screening Test

Conclusion

A new multi cancer blood screening test, the CancerSEEK test, is in development. It is based on a combination of various cancer markers. Researchers measure cancer DNA mutations and also cancer proteins. They also determine the tissue location of the cancer. Researchers did much work already in terms of sensitivity and specificity of the test. Physicians integrate the test further with conventional medical tests to confirm the location of the cancer. With breast cancer mammograms are the additional tests, with colorectal cancer colonoscopies. A large 5-year clinical study involving up to 50,000 women is the next project to test the CancerSEEK test further. In future the CancerSEEK test will become a routine screening test for cancer. The cost for one CancerSEEK test will be less than 500.00 USD. The hope is that cancer cures will improve due to earlier detection.


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About Ray Schilling

Dr. Ray Schilling born in Tübingen, Germany and Graduated from Eberhard-Karls-University Medical School, Tuebingen in 1971. Once Post-doctoral cancer research position holder at the Ontario Cancer Institute in Toronto, is now a member of the American Academy of Anti-Aging Medicine (A4M).

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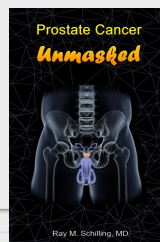


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A new blood test in development has shown ability to screen for numerous types of cancer with a high degree of accuracy, a trial of the test shows. Share: FULL STORY. A new blood test in development has shown ability to screen for numerous types of cancer with a high degree of accuracy, a trial of the test shows. Dana-Farber Cancer Institute investigators will present the results of the multi-center trial during a session today at the European Society for Medical Oncology (ESMO) 2019 Congress. advertisement. The test, developed by GRAIL, Inc., uses next-generation sequencing technology to prob New blood tests for cancer must have very high specificity; otherwise, too many healthy individuals will receive positive test results, leading to unnecessary follow-up procedures and anxiety. Blood tests that detect somatic mutations (“liquid biopsies”) offer the promise of exquisite specificity because they are based on driver gene mutations that are expected to be found only in abnormal clonal proliferations of cells, such as cancers (11–18). One of the most important attributes of a screening test is the ability to detect cancers at relatively early stages. The median sensitivity of CancerSEEK was 73% for the most common stage evaluated (stage II), similar (78%) for stage III cancers, and lower (43%) for stage I cancers (Fig. 2B). “Together with existing screening tests, the new test could play an important role in screening people who are at risk for developing HCC. It could help doctors find and treat HCC early. The method is relatively simple and inexpensive, and it only requires a small blood sample,” said the study’s leader, Xin Wei Wang, Ph.D., co-leader of the NCI Center for Cancer Research (CCR) Liver Cancer Program. Using blood samples taken when the cancer was diagnosed, the signature correctly identified those who developed HCC (area under the curve, AUC=0.98). Importantly, the signature also worked when the researchers used blood samples taken at the beginning of the

study, up to 10 years before diagnosis (AUC=0.91). Experts hope the new test can be used to detect early-stage tumors when treatment is likely to be less morbid, more effective and a cure more achievable. "Hopeful that blood-based cancer detection will be a reality". Many researchers across the globe are trying to develop blood tests – often called "liquid biopsies" –that can detect cancer. Study author Professor Geoff Oxnard (Dana Farber Cancer Institute, Boston), told the BBC News. "This blood test seems to have all the features needed to be used on a population scale, as a multi-cancer screening test... Certainly, the field is movin A new blood test that can detect more than 50 types of cancer has been revealed by researchers in the latest study to offer hope for early detection. The test is based on DNA that is shed by tumours and found circulating in the blood. More specifically, it focuses on chemical changes to this DNA, known as methylation patterns. Researchers say the test can not only tell whether someone has cancer, but can also shed light on the type of cancer they have. The team say the results are exciting as they offer the possibility of a new way to screen for cancers that are otherwise difficult to detect. For example, the system correctly identified 63% of those with stage I pancreatic cancer, rising to 100% in stage IV. The team further found that the system could shed light on the type of cancer.