

Accurately Diagnosing Genetic Disease Prevents Cancer, Saves Lives

Study finds gene test both identifies Lynch syndrome and advises cancer treatment

The Ohio State University Comprehensive Cancer Center

Arthur G. James Cancer Hospital & Richard J. Solove Research Institute

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NEWS PACKAGE

SUGGESTED TEASE	KNOWING YOU HAVE THIS INHERITED DISEASE COULD PREVENT CANCER AND SAVE YOUR LIFE. COMING UP, HOW A NEW TEST CAN HELP ENSURE THOSE WHO HAVE IT ARE CORRECTLY DIAGNOSED.
ANCHOR LEAD	<hr/> <p>YOU MAY HAVE HEARD OF BRCA, THE BREAST CANCER GENE THAT THOSE WITH A FAMILY HISTORY ARE ROUTINELY SCREENED FOR.¹ BUT YOU MAY NOT KNOW THERE IS A SIMILAR INHERITED CONDITION ASSOCIATED WITH COLON CANCER CALLED LYNCH SYNDROME.</p> <p>KNOWING WHETHER OR NOT YOU HAVE THE GENETIC MUTATION IS CRUCIAL TO CANCER PREVENTION, AND RESEARCHERS HAVE FOUND A NEW WAY TO SCREEN FOR THE DISEASE FASTER AND MORE ACCURATELY THAN EVER BEFORE.</p> <p>BARB CONSIGLIO HAS THE DETAILS.</p> <hr/>
(PACKAGE START) CG: Courtesy: Ohio State Comprehensive Cancer Center – Arthur G. James Cancer Hospital and Richard J. Solove Research Institute Shots of Jay looking at family photos	(Nats - Sound) :02 BEFORE JAY MCDANIEL LEARNED HE HAD COLON CANCER, HE ALREADY KNEW THE DISEASE RAN IN HIS FAMILY. :05 <i>“I had already lost my father, his brother, three of his sisters and his father. I never knew my grandfather. This disease will catch you at an early age.” :09</i>
CG: Jay McDaniel Has Lynch syndrome Shots of Jay looking at photos	BUT JAY HAS MORE THAN JUST A FAMILY HISTORY. HE HAS LYNCH SYNDROME, AN INHERITED GENE MUTATION THAT

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<p>Photo of Erika</p>	<p>PREDISPOSES HIM TO SEVERAL TYPES OF CANCER. IT'S A DISORDER THAT HE PASSED TO ONE OF HIS DAUGHTERS.:10</p>
<p>CG: Heather Hampel, MS, LGC Ohio State Comprehensive Cancer Center – Arthur G. James Cancer Hospital and Richard J. Solove Research Institute</p>	<p><i>“This is a syndrome where the cancers are extremely preventable and so it's critical that we find people who have this condition because we can save their lives.” :09</i></p>
<p>Shots of lab work with blood samples</p>	<p>TO DO THAT, LYNCH SYNDROME MUST BE CORRECTLY DIAGNOSED SO THOSE WHO HAVE IT CAN BEGIN MORE FREQUENT CANCER SCREENINGS. SO GENETIC COUNSELOR HEATHER HAMPEL AND HER TEAM AT THE OHIO STATE UNIVERSITY COMPREHENSIVE CANCER CENTER – JAMES CANCER HOSPITAL AND SOLOVE RESEARCH INSTITUTE USED A ONE-STEP TEST TO SCREEN FOR MULTIPLE TUMOR MUTATIONS SIMULTANEOUSLY.</p>
<p>Shots of Hampel working in office</p>	<p>THEY FOUND THAT THIS SIMPLER METHOD OF GENE TESTING WAS MORE EFFECTIVE IN IDENTIFYING LYNCH SYNDROME THAN PREVIOUS METHODS. :24</p>
<p>Shots of lab work</p>	<p>“I think that this test is really the future for treating, not just colon and uterine cancer, but probably all cancers.” :09</p>
<p>CG: Heather Hampel (cg'd earlier)</p>	<p>THE NEW TESTING METHOD² RESULTED IN A TEN PERCENT IMPROVEMENT IN LYNCH SYNDROME DETECTION RATES COMPARED WITH THE EXISTING SCREENING METHOD INVOLVING MULTIPLE SINGLE TESTS. :07</p>
<p>Wide shot of lab work Blur for graphic: <u>Gene Testing for Lynch Syndrome</u> - Resulted in 10% detection improvement</p>	<p><i>“This information is important, not just for their future cancer risks, their family members’ cancer risk, but as we’re starting to learn, it actually can change the treatment for their current cancer.” :12</i></p>
<p>CG: Heather Hampel (cg'd earlier)</p>	<p>HAVING DATA ON EVERY GENE CAN HELP DOCTORS BETTER TARGET CANCER TREATMENT IN PATIENTS LIKE LIKE JAY. HE RECENTLY COMPLETED THREE MONTHS OF IMMUNOTHERAPY AND HIS CANCER IS IN REMISSION.</p>
<p>Shots of immunotherapy treatment</p>	<p>AT OHIO STATE’S COMPREHENSIVE CANCER CENTER, THIS IS BARB CONSIGLIO REPORTING. :17</p>
<p>Shots of Jay looking at photos</p>	
<p>Shot of family photos</p>	
<p>(PACKAGE END)</p>	

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ANCHOR TAG

IF THIS TEST BECOMES STANDARD, THE BENEFITS WOULD REACH WELL BEYOND JUST COLON CANCER. IT COULD ALSO IDENTIFY OTHER HEREDITARY SYNDROMES LIKE THOSE THAT CAUSE BREAST AND OVARIAN CANCERS. TUMOR SEQUENCING ISN'T USUALLY PERFORMED UNTIL SOMEONE HAS STAGE FOUR CANCER, BUT EXPERTS HOPE THIS STUDY PROVES THAT PERFORMING THIS TEST AT THE TIME OF DIAGNOSIS CAN SAVE LIVES.

SOCIAL MEDIA

 **Share it! Suggested tweet:**

Knowing you have an inherited gene mutation that predisposes you to certain types of cancer can save your life. Researchers [@OSUCCC_James](#) found that a one-step screening test can diagnose the condition faster and with more accuracy than existing screenings. <http://bit.ly/2GCVfKb>

 **Suggested post:**

Knowing you have Lynch syndrome, an inherited disease that dramatically increases your risk of colon and other types of cancer, can save your life. But testing for the disease is complicated and sometimes even inaccurate. A new study by researchers at [The Ohio State Comprehensive Cancer Center – James Cancer Hospital & Solove Research Institute](#) found that a one-step gene sequencing test can diagnose Lynch syndrome quickly and accurately. <http://bit.ly/2GCVfKb>

EXTRA BITES

CG: Heather Hampel, MS, LGC
Ohio State Comprehensive Cancer Center –
Arthur G. James Cancer Hospital and Richard J.
Solove Research Institute

Hampel says the best cancer is the one you never get:
“I always say the best cancer is the one you never get, and that’s our goal with Lynch syndrome: Finding out who has this; keeping them from getting cancer in the first place.”

Hampel says gene testing should be done at diagnosis:
“Why not do it at the time of diagnosis and utilize it to get us all sorts of additional information in terms of who’s maybe got a hereditary cancer syndrome, who’s maybe not going to respond well to certain types of chemotherapy, who, how, and which therapies look like they’ll work best?”

Hampel says testing family members can prevent cancer:
“There may be many, many other people in their family that also have Lynch syndrome where we can intervene and keep them from getting cancer.”

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CG: Jay McDaniel
Has Lynch Syndrome

Jay describes his family history of cancer:
“My father passed of cancer when I was 21, and before that three of his sisters, his brother and his father had all passed, so I grew up watching family members die. So I kind of knew it was coming.”

Jay says correct diagnosis saved his daughter’s life:
“Only one of my daughters, my oldest, is positive, but knowing that, she gets a yearly screening, and they can pretty much say with certainty they’re going to save her life.”

Jay says diagnosing Lynch syndrome saves lives:
“Knowing that you have it and preventing it can stop it in your whole family, and it’s saving lives today.”

References

¹*BRCA Mutations: Cancer Risk and Genetic Testing. National Cancer Institute. January, 2018.*
Online: <https://www.cancer.gov/about-cancer/causes-prevention/genetics/brca-fact-sheet>

²*Assessment of Tumor Sequencing as a Replacement for Lynch Syndrome Screening and Current Molecular Tests for Patients With Colorectal Cancer. JAMA Oncology, March 29, 2018.* Online: <https://jamanetwork.com/journals/jamaoncology/article-abstract/2676226?redirect=true>

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