

# TAMING, THEN AIMING, VIRUSES AT BRAIN TUMORS

Scientists: “Engineered” viruses may hold promise for cancer treatment

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The James Cancer Hospital & Solove Research Institute at Ohio State University  
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<b>SUGGESTED TEASE</b>	STILL TO COME, BATTLING ONE DISEASE BY USING ANOTHER - HOW SCIENTISTS PLAN TO USE A VIRUS TO ATTACK BRAIN TUMORS, NEXT IN HEALTH NEWS.
<b>ANCHOR LEAD</b>	IT MAY SOUND LIKE THE PLOT OF A MEDICAL DRAMA, BUT THIS APPROACH TO FIGHTING CANCER IS REAL. SCIENTISTS SAY THEY MAY SOMEDAY BE ABLE TO BATTLE BRAIN CANCER - WHILE USING A VIRUS TO DO IT. AND EARLY RESULTS FROM THE LAB ARE PROMISING. CLARK POWELL HAS DETAILS.
	(Nats – working in laboratory) :02
<b>CG: Courtesy: James Cancer Hospital &amp; Solove Research Institute</b>  Shots of Dr. Kaur and her team in the laboratory	THE SCIENCE ITSELF MAY BE COMPLEX, BUT THE IDEA IS RELATIVELY SIMPLE: MODIFY A COMMON VIRUS THAT WILL BYPASS HEALTHY CELLS AND ATTACK TUMORS. AND IN SOME LAB TESTS INVOLVING ANIMALS WITH BRAIN CANCER, IT’S WORKED. :12
<b>CG: Balveen Kaur, PhD Ohio State Comprehensive Cancer Center</b> :14 - :25	“Even at that late stage of their tumor burden has lead to significant enhancement and survival – and sometimes even cures of some animals.” :11
Shots of Dr. Kaur working in the laboratory with assistants  <b>Graphic</b> Shot of brain with tumor Close up of healthy cells Close up of cancer cell dying	BUT DOCTOR BALVEEN KAUR ( <i>pronounced: BAL-veen “CORE”</i> ) OF OHIO STATE UNIVERSITY’S COMPREHENSIVE CANCER CENTER SAYS THERE’S STILL WORK TO DO. ONE PROBLEM IS THAT THE IMMUNE SYSTEM OF SOME ANIMALS ATTACKS THE VIRUS AND KILLS IT BEFORE IT CAN KILL THE CANCER. SO SHE’S WORKING ON WAYS TO SLOW THE IMMUNE SYSTEM SO THE VIRUS CAN BETTER PASS THROUGH HEALTHY CELLS AND COLLECT INSIDE CANCER CELLS. ONCE IT DOES, THE VIRUS CAN MULTIPLY AND DESTROY IT. :23
<b>Dr. Kaur (CG’d earlier)</b> :48 - :59	“So, if one virus particle goes inside the cell, it can replicate to become about 500 to 1,000 particles and then the infected cell literally bursts.” :11
	(Nats - walking dog) :02

<p>Shots of Brad walking his dog</p> <p>Shots of Brad walking</p> <p>Shots of scientists working in the laboratory</p>	<p>IT'S AN IDEA THAT APPEALS TO BRAD CURRAN, WHO DOESN'T TAKE WALKS WITH HIS DOG FOR GRANTED.</p> <p>IT WAS HIS DOG THAT SAVED HIS LIFE - AFTER FINDING HIM UNCONSCIOUS HE WENT FOR HELP.</p> <p>IT TURNS OUT BRAD HAD A BRAIN TUMOR - AND SPENT WEEKS IN THE HOSPITAL UNDERGOING SURGERY, CHEMOTHERAPY - AND EVEN LEARNING TO WALK AGAIN.</p> <p>SO THE IDEA THAT A VIRUS COULD HELP BATTLE TUMORS LIKE HIS IN THE FUTURE IS PROMISING. :22</p>
<p><b>CG: Brad Curran</b> <b>Had brain cancer</b> <b>1:22 - 1:30</b></p>	<p>"I'm sure the recovery would be quicker and people could return to their normal activities and life and work and continue where they were." :08</p>
<p>Shots of scientists in lab</p> <p>Low angle of Brad and dog walking by</p>	<p>HUMAN TRIALS MAY STILL BE A WAYS OFF, BUT RESEARCHERS SAY THE'RE TAKING IMPORTANT STEPS TOWARD TURNING THAT IDEA INTO A REALITY.</p> <p>AT OHIO STATE UNIVERSITY'S COMPREHENSIVE CANCER CENTER THIS IS CLARK POWELL REPORTING. :11</p>
<p><b>ANCHOR TAG</b></p>	<p>SCIENTISTS SAY THEY HAVE TESTED THE VIRUS ON HEALTHY BRAIN TISSUE IN HUMANS AND IT HAS PROVEN TO BE SAFE.</p> <p>ONE RECENT STUDY AT OHIO STATE FOUND THAT COMBINING THE VIRUS WITH DRUGS THAT STOP BLOOD VESSELS FROM REACHING THE TUMOR, MIGHT BE ONE WAY TO ATTACK AND STARVE CANCERS IN THE BRAIN.**</p>
<p><b>VIEWER INFORMATION</b></p>	<p>IF YOU'D LIKE MORE INFORMATION LOG ONTO THE JAMES WEB SITE AT <a href="http://www.jamesline.com">www.jamesline.com</a> AND CLICK ON "MEDIA ROOM" OR CALL THE JAMES LINE AT 1-800-293-5066.</p>
<p><b>References -</b></p>	<p><b>* <i>Systemic Vesicular Stomatitis Virus Selectively Destroys Multifocal Glioma and Metastatic Carcinoma in Brain</i></b>, The Journal of Neuroscience, Volume 28, Number 6, February 2008. <a href="http://www.jneurosci.org">http://www.jneurosci.org</a></p> <p><b>**<i>Oncolytic HSV-1 Infection of Tumors Induces Angiogenesis and Upregulates CYR61</i></b>, Molecular Therapy, The American Society of Gene Therapy, <a href="http://www.moleculartherapy.org">www.moleculartherapy.org</a></p>
	<p style="text-align: center;"><b>EXTRA BITES</b></p>
<p><b>CG: Balveen Kaur, PhD</b> <b>Ohio State Comprehensive Cancer Center</b></p>	<p>"It's essentially like a bomb going inside the tumor, it's a very powerful biological treatment."</p> <p>"The viruses can essentially lead to 80% of the animals who are cured."</p>

<b>CG: Brad Curran Had brain cancer</b>	“I was found having a seizure in the bathroom. Thank God my dog woke my wife up (laughs). So my wife found me having a seizure and they called the squad. And the only thing I recall is being in the back of the squad and them telling me that they found me having a seizure.”
<b>Producers:</b>	<b>Extra b-roll is included on this tape. To download scripts, video and support material visit us at:</b> <a href="http://www.mediasourcetv.com/rp/">http://www.mediasourcetv.com/rp/</a>
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