

The cancer "vaccine" removes tumors in mice

The cancer "vaccine" eliminates mouse tumors, even distant metastases

Stanford researchers found that activating T cells in tumors removes even distant metastases in mice. Patients with lymphoma are already being recruited to try out the new technique in clinical trials.

Ronald Levy (left) and Iditas Sagiv-Barfi led a possible treatment for the cancer, which involves injecting two immune-boosting substances directly into the tumors.

By injecting two immune-stimulating substances directly into solid tumors in mice, animals can remove all traces of cancer, including distant, untreated metastases, according to a study by researchers at Stanford University School of Medicine.

Research has shown that this method is suitable for many different types of cancer, including those that occur spontaneously. Researchers believe that topical use of very small amounts of the substance could be a quick and relatively inexpensive method of treating cancer that is unlikely to cause the negative side effects often seen with the body's immune stimulation.

"When we use these two substances together, we see the removal of tumors throughout the body," said Ronald Levy, a doctor of medicine in oncology. "This method circumvents the need to identify tumor-specific immune targets and does not require activation of the wholesale immune system or adaptation of the patient's immune cells."

One substance has already been approved for human use; the other was tested in humans in several unrelated clinical trials. A clinical trial was launched in January to investigate the effects of treatment in patients with lymphoma. (Test information is available online.)

Ronald Levy, a professor at the School of Medicine, is the senior author of a study published January 31 in *Science Translational Medicine*. Medical instructor Iditas Sagiv-Barfi, a doctor, is the lead author of this article.

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<https://med.stanford.edu/news/all-news/2018/01/cancer-vaccine-eliminates-tumors-in-mice.html>

cancer, # stomach water, #wash water, #throat water