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West Nile threats continue

College Station, Houston areas affected by the virus

By Adam Reed THE BATTALION

Although the West Nile virus gained ational focus upon its entry into the eastern United States in late 1999 and Texas in 002, the threat is still a concern to Texans, specially those in rural areas near Houston pened — to be aware of and College Station.

Many people are under the impression nat mosquitos remain dormant or move to warmer climate during the colder winter onths. However, the insects are always esent, said Dr. Jim Olson, entomologist ith the Texas Agricultural Experiment

'We never run out of mosquitos — at

West Nile Virus Map - 2002

least in this part of Texas — we just change species with the season," Olson said.

The Center for Disease Control is aware of at least one mosquito species that is able to survive the low winter temperatures.

'One of the species of mosquitos found to carry West Nile virus is the Culex species, which survives through the winter, or 'overwinter,' in the adult stage," the CDC Web site explained.

Like the CDC, Olson is concerned about the Culex quinquefasciatus species, also known as the southern house mosquito.

'If it warms up — with all this standing water around — we could see an early rise of the southern house mosquito," he said. The earlier those things start to show up, the earlier we see cycling of viruses like St. Louis encephalitis and West Nile.'

This year's milder southern climates have provided a comfortable home for other species as well. Many are just now reaching their population peak in Central Texas and Southeast Texas because of the abnormally wet conditions in these regions. The black and white-striped Asian tiger mosquito, or Aedes albopicuts, may also be on the rise because of these conditions, Olson said.

As soon as average temperatures surpass 60 degrees during the day and overnight, more spring-time mosquito species will arrive in the Houston and College Station areas. Entomologists anticipate the arrival of the summer species as temperatures climb into the 80s. Experts have observed a correlation between outbreaks of West Nile and other mosquito-borne viruses with the arrival of the bird-nesting season, and expect the same relationship this year.

Nesting birds are a nursery for viruses like West Nile and St. Louis encephalitis in terms of ready access to mosquitos that feed on birds, and transmission of the disease agents from birds to mosquitos and site at http://www.cdc.gov. back to birds," Olson said.

While the Culex species is predominantly a bird feeder, it may occasionally feed on humans, Olson said.

"But, it is more apt to feed on humans when they get inside a house where they don't have the option," he said. "So it's very important to keep mosquitos outside where

To prevent mosquito threats, yellow-colored outside lighting is recommended instead of white or mercury-type bulbs, and residents should ensure that screens covering windows and doors are secure and without holes. Mosquitos tend to congregate and breed near areas of standing water, so it is important to remove anything that may collect water.

Olson says regional precautions are already being taken, and experts are preparing for the worst to make sure they

'We've got the virus now, so we're going to have to see how it builds up in the bird population and how it spreads from there," he said. "We really don't have a feel on just how much immunity we've got in the resident populations of birds, horses and humans from last year."

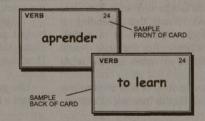
CDC director Dr. Julie Gerberding said national precautions are being taken in the form of pesticides, according to The Associated Press. The pesticides being used to limit the mosquito population pose no health threat to humans, she said.

"There are very, very few, if any, health consequences," she said. "Basically they're safe, and the risks they present are outweighed by the benefits of reducing the mosquito population."

The CDC offers additional helpful suggestions for protecting yourself and your property from the West Nile threat. For information on these precautions to protect humans and animals, visit the CDC Web



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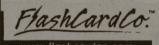


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Using smallpox vaccine to fight cancer

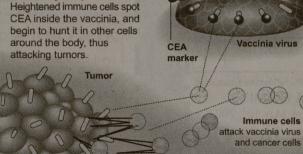
The body's immune system doesn't always spot cancer because tumors are made of the body's own cells, not foreign germs. Now scientists are using the smallpox vaccine in a treatment that causes the immune system to better recognize and attack cancer. Smallpox vaccine is made from the vaccinia virus, which is big enough to carry extra genes.

Gene that makes

boosting

molecules

Vaccine injected A gene that makes a marker called CEA is inserted into a weakened vaccinia virus. CEA is found on many cancer cells. boosting molecules are added. The body responds



SOURCE: National Cancer Institute

Emily Brannan/AP germs. The hope with therapeu-NCI's Dr. Steven Rosenberg. So scientists are trying to tic cancer vaccines is to train develop more elaborate, hopefulpowerful immune-system T

ly better, vaccines. cells to more easily spot and attack malignant cells. Enter smallpox vaccine. More than a dozen Phase 3 Schlom thought it could prove a studies — the most advanced good cancer-fighting platform testing - of first-generation vacbecause it's made with live vaccines are under way. Most involve cinia virus, a smallpox relative making patients custom shots that's so large that adding differusing their own tumor cells ent genes into it is fairly easy. mixed with immunity-boosting Also, it's highly reactive, quickly chemicals. Researchers frequentcausing a distinctive, infectious ly see a handful of people whose pustule that clearly signals a stimcancer dramatically shrinks, even ulated immune system.

disappears, for at least a while. Schlom took a vaccinia ver-But those amazing responssion engineered to be milder es are rare, because cancer than today's smallpox vaccine, adapts to treatments, says which can occasionally cause

deadly side effects. He added to it a gene that makes an antigen, or marker, called CEA that's found on many colon, pancreatic, lung and breast cancer cells. Because people become immune to vaccinia quickly, he created booster shots made with a less reactive vaccinia relative called fowlpox. And he added three immune-boosting molecules to the mix, calling it Tricom.

vaccine plus boosters every few months significantly increased survival of half the patients in the first, small experiment at Georgetown University.

One patient saw her lung cancer disappear, and others who were expected to die within the year instead lived two years and counting.

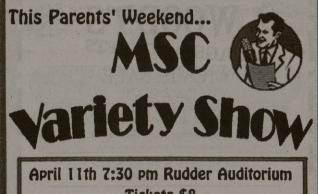
Jeannette DuBose Williams of Alexandra, Va., is one of them. After three surgeries, radiation and chemotherapy, she had run out of options to battle advanced colon cancer that had spread into her pelvis. Today, after 2 1/2 years of Tricom shots, her cancer is still there - but it hasn't grown, and she feels healthy, spending her days golfing and visiting grandchildren.

"Cancer may be one thing you're not going to cure, but maybe you can keep it in check," says Williams, 72. "I don't know what this live virus is doing inside of me but ... I'm very grateful."

Small experiments at the Dana-Farber Cancer Institute and Columbia University also proved promising. Now Schlom hopes to begin Phase 3 studies in another year.

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