



A Bicentennial Community
1798 - 1998

Town of Farmington
Department of Planning & Community Development
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NOTICE

Re: Eastern Equine Encephalitis (EEE)

Please be advised that the New Hampshire Division of Public Health Services has notified us about a positive case of **Eastern equine encephalitis (EEE)**. The case was discovered in a wild turkey, found in the Town of Farmington.

Eastern equine encephalitis (EEE) is an uncommon but serious disease caused by the EEE virus. EEE is an arbovirus (short for arthropodborne virus, meaning spread by insects). This virus can be transmitted to horses, other animals, and, in rare cases, people.

Prevention, centers around controlling mosquitoes and to avoid mosquito bites.

Please see the Fact Sheet as distributed by the Division of Public Health Services.

Sincerely;

Ronald R. LeMere
Bldg. Inspector/Code Enforcement Officer/Health Officer
Farmington, N.H.

Eastern Equine Encephalitis

What is eastern equine encephalitis?

Eastern equine encephalitis (EEE) is an uncommon but serious disease caused by the EEE virus. EEE is an arbovirus (short for *arthropod-borne virus*, meaning spread by insects). This virus can be transmitted to horses, other animals, and, in rare cases, people.

How do people get eastern equine encephalitis?

The EEE virus grows in birds that live in freshwater swamps. The virus has a complex life cycle involving birds and a specific type of mosquito, called *Culiseta melanura*. This particular mosquito does not bite people. Sometimes though, the virus can escape from its marsh habitat by means of other mosquitoes that feed on both birds and mammals. These mosquitoes can then transmit the virus to animals and people.

What are the symptoms of EEE?

Infection can cause a range of illnesses. Most people have no symptoms; others get only a mild flu-like illness with fever, headache, and sore throat. For people with infection of the central nervous system, a sudden fever (103° to 106°), severe headache, and stiff neck can be followed quickly by seizures and coma. About one third of these patients die from the disease. Of those that survive, many suffer permanent brain damage and require lifetime institutional care.

How soon after exposure do symptoms appear?

Symptoms of EEE usually appear 4 to 10 days after the bite of an infected mosquito.

How is eastern equine encephalitis diagnosed?

Diagnosis is based on tests of blood or spinal fluid.

Who is at risk for eastern equine encephalitis?

Anyone can get EEE, but some people are at increased risk, such as people living in or visiting areas where the disease is common, people who work outside or participate in outdoor recreational activities in areas where the disease is common, and children and those over age 55 are more susceptible to serious illness. The risk of getting EEE is highest from late July through September.

What is the treatment for eastern equine encephalitis?

There is no specific treatment for eastern equine encephalitis. Antibiotics are not effective against viruses, and no effective anti-viral drugs have yet been discovered for this disease. Care of patients centers around treatment of symptoms and complications.

How common is eastern equine encephalitis?

EEE is a rare disease. Fewer than 5 cases are reported in the United States in most years. There is concern, however, that EEE is spreading. In 2004, there were 3 positive horses, 3 positive emus, and 19 positive mosquito pools found in

New Hampshire. In 2005, there were 54 positive birds, which included 2 emus, 9 positive horses, 4 positive alpacas, 1 positive llama, 15 positive mosquito pools, and 7 positive human cases, which resulted in 2 deaths.

How can eastern equine encephalitis be prevented?

A vaccine is available for horses, but not for humans. Prevention centers around controlling mosquitoes and on individual action to avoid mosquito bites. To avoid being bitten by the mosquitoes that transmit EEE:

- If possible, stay inside between dusk and dark, when mosquitoes are most active.
- When outside between dusk and dark, wear long pants and long-sleeved shirts.
- Use an insect repellent with DEET according to manufacturer's directions when outside.
- Put screens on windows and make sure they do not have holes.
- Eliminate standing water from your property.

For more information about eastern equine encephalitis, call the New Hampshire Department of Health and Human Services, Bureau of Infectious Disease Control at 603-271-4496 or 800-852-3345 x4496 or visit our website at www.dhhs.nh.gov or the Centers for Disease Control and Prevention website at www.cdc.gov .