



FACT SHEET:

FELINE LEUKEMIA VIRUS (FeLV)

What is Feline Leukemia Virus?

Feline leukemia virus, also known as “FeLV,” is the cause of a variety of diseases. As a retrovirus, it replicates itself inside living cells, making it impossible to cure. Specifically, FeLV invades and replicates in cells of the cat’s immune system and tissues that create blood cells. FeLV is specific to cats and does not pose a risk to other animals or people.

What diseases does the virus cause?

In many cats, FeLV infection results in suppression of the immune system. This means that the cat is less able to defend him/her-self against a wide range of infections that would not normally cause a problem in healthy cats. A variety of symptoms could develop, and there is a progressive deterioration in their health over time. However, *a FeLV cat can live for many years without illness.*

FeLV can cause diseases such as enteritis (chronic diarrhea), eye disease or stomatitis (painful inflammation of the mouth). Occasionally the virus can cause cancer, but this is uncommon. Cancers can occur in a variety of tissues, organs and body sites, depending on the type and location of cells that have been infected with FeLV. The most common tumor associated with FeLV is that of lymphoid (immune) cells known as lymphoma. These tumors may occur at single or multiple sites in the body.

How common is FeLV?

FeLV infection is found worldwide in approximately 1-2% of the cat population. The proportion of cats infected differs according to the geographical location, environment and the lifestyle of the cat. Infection is more common in colonies of cats where there is close contact between individuals.

How is FeLV transmitted or spread?

A cat with FeLV sheds virus in bodily fluids such as saliva, urine and feces. *FeLV is not a highly contagious virus,* as the virus cannot survive longer than a few hours in the environment outside of the cat. This means that if you pet a cat with FeLV and then pet another cat, the risk of transmission is essentially zero.

Transmission requires a prolonged period of close contact between infected and susceptible cats. Susceptible cats are kittens and adult cats with weakened immune systems. Healthy adult cats are essentially immune to the disease. Cat bites by an infected cat can readily transmit infection. Close contact activities include mating, mutual grooming, and sharing of litter trays and food bowls. Because of this possibility, ***Tree House does NOT recommend co-mingling FeLV positive cats with FeLV negative cats.***

It is also transmitted by a pregnant cat to her kittens. All the kittens will likely be born with FeLV virus. However, a queen infected with FeLV can be infertile or there is death of the kittens before birth.



felvpositive

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How can infection of FeLV be prevented?

- ❖ Keep cats indoors.
- ❖ Don't allow your cats to interact with cats that are unknown to you, and could carry disease.
- ❖ Have your cats spayed and neutered.
- ❖ If your cat goes outside, consider vaccination. Speak with your veterinarian. (Although vaccination is helpful in preventing infection with FeLV, no vaccine is 100% protective.)

How long will my FeLV cat live?

Although many FeLV cats live shorter lives, they will have several great years in their new home.

Sadly, 3 out of every 4 cats will need to be euthanized 3 years after diagnosis, but each cat is different. Tree House has even had adult cats with FeLV who lived several years. Eventually, when your cat becomes ill and there is no effective treatment, you will discuss with your veterinarian when it is time to say goodbye.

How do I keep my FeLV cat healthy?

- ❖ Keep cats indoors.
- ❖ Don't allow your cats to interact with cats that are unknown to you, and could carry disease.
- ❖ Have your cats spayed and neutered.
- ❖ Get regular examinations every 6 months by a veterinarian.
- ❖ Keep your cat up-to-date on routine vaccinations and preventives (such as parasite medications).
- ❖ Bring your cat to the veterinarian as soon as you notice he/she is not feeling well.
- ❖ Feed a high quality diet.

How do I know if my cat is showing signs of FeLV?

There are many potential issues that FeLV cats can develop, so owners should be aware of their cat's normal behaviors and bring them to the vet right away if anything changes. If your cat becomes ill, it does not mean that your cat cannot be treated – most secondary infections due to the virus are treatable. Some common symptoms of illness include:

- ❖ Lethargy, or a decrease in normal activity
- ❖ Decreased appetite or anorexia
- ❖ Frequent sneezing or coughing
- ❖ Green discharge from the eyes or nose
- ❖ Chronic diarrhea
- ❖ Lumps on or under the skin

How can FeLV infection be diagnosed?

A quick test can be performed which is able to detect the virus in the blood of an infected cat, also known as a "SNAP" test. This test is accurate and reliable; false results rarely occur.

If a cat is diagnosed positive on the SNAP test, a second test is sent to the lab called an "IFA". This tests for cells infected by the virus in the bloodstream, not just the virus itself. If a cat is positive on both tests, there is no need to retest – the cat has FeLV and it is infecting their cells.

Written by Dr. Emily Swiniarski. Edited August 2016.



If a cat is positive on the one test but not the other, your veterinarian (and Tree House) will recommend retesting in approximately 60 days. This is to ensure diagnosis. In rare cases a cat will test positive the first test, then negative the second test. This means they may have been exposed to FeLV but “cleared” the infection.

Is there any treatment for FeLV infection or disease?

There is currently no specific treatment for FeLV-infected cats and no cure. If FeLV is causing immunosuppression and the patient develops secondary infections, the secondary infections may be treatable, leading to improvement.