Attachment Styles

Secure attachment is when the cat shows signs of distress when the owner is out of the room but recovers quickly when the owner returns. This cat likes her owner and is confident with her owner around, doesn't like to be left alone in a strange place, but regains her confidence quickly when the owner returns.

Ambivalent insecure attachment is

when the cat shows signs of distress when the owner leaves the room but remains stressed and does not recover when the owner returns, becoming clingy. This cat may not want to explore in a new environment, shows separation anxiety behaviors when the owner leaves, and overcompensates when the owner returns.

Avoidant insecure attachment is when the cat doesn't react much when the owner leaves or returns. This cat may or may not explore a new room even when the owner is present and won't show a change in behavior when the owner leaves or greet the owner when she returns.

Disorganized insecure attachment

is when the cat shows a mix of ambivalent and avoidant attachment behaviors.

goods such as bottle tops, toss one of these items for her once in a while.

You can also gain your cat's trust by respecting her preferences and personal space. "Do not force your kitty to interact with you; rather, let her be the one to take the initiative," says Dr. Perry. "Some cats have a limited tolerance for time together with us, so do not overstep the boundaries—keep the interaction time short and sweet. Most of all, be patient so that she learns to trust you."

Training can be a rewarding activity for both of you. If your cat is food motivated, clicker training is a fun way to exercise your cat's mind and teach her tricks. You can use toys if your cat would rather have a feathered mouse than a crunchy snack.

Cats may not be as effusive as dogs in showing affection, but they do form bonds. So, hug your kitty and tell her how much you love her. Then watch for ways she tells you she loves you back.■

Living With an FIV-Positive Cat

A proactive lifestyle is key to your success

eline immunodeficiency virus (FIV) is a retrovirus that infects cats worldwide. Like the human immunodeficiency virus (HIV), FIV suppresses the immune system. For this reason, cats infected with FIV can succumb to other infections their immune systems can't fight off. It's important to realize, though, that most cats with FIV infections live normal lifespans with a high quality of life.

"The most important aspects of managing an FIV+ (positive) cat is avoiding other infections, minimizing stress, and being proactive about health care by doing things like keeping infected cats indoors, avoiding crowded housing conditions, making regular trips to the veterinarian, acting quickly if any signs of illness are observed, and perhaps, by vaccinating against other infectious diseases, although this is a controversial topic that should be evaluated on a case-by case basis," says Bruce Kornreich, DVM, PhD, Dipl ACVIM, director of the Cornell Feline Health Center.



Well, of course you want to help this pretty, sad stray cat. But start with a trip to the veterinarian for FIV testing and checking for a microchip in case he has caring owners who want him back.

How Do They Get It?

FIV is spread primarily through the saliva of an infected cat, almost always during aggressive encounters that result in deep bite wounds. Casual contact with infected saliva, as happens with grooming each other or sharing water and food

What You Should Know About FIV Testing

Testing all cats for FIV is important. You want to be able to give an infected cat the care it needs and help minimize spread of the virus. If you're adopting a cat from a shelter, get a copy of its FIV test report. If you've adopted a stray, ask your veterinarian to do an FIV test (he or she will likely recommend this test anyway).

- Positive is forever: Once a cat tests positive for FIV, that cat is considered positive forever. Luckily, available tests, which screen for the presence of antibodies against the virus, are fairly accurate. There are, however, a couple of situations that can result in false negative and false positive results.
- False negatives: These can arise if a cat is tested before an infected cat has had time to mount an immune response against the virus. Any newly rescued cat that tests negative should be retested 60 to 90 days later to be sure.
- False positives: Kittens getting antibodies from an infected mother through her milk will often test positive even if they are not infected. If your kitten tests positive for FIV, have her retested after 6 months of age, when maternal antibodies will have dissipated.
- Vaccinated cats will test positive: Any cat that has been vaccinated for FIV will test positive, even if not infected. The most common in-clinic tests cannot distinguish between antibodies from natural infection and vaccine-induced antibodies. Because the FIV vaccine was discontinued in the United States several years ago, this is not a big concern, but because FIV cats live a long time, there may still be some FIV-vaccinated cats out there. When in doubt, polymerase chain reaction (PCR) testing, which detects actual viral RNA or DNA, can be done to confirm infection status.

Human Health Concerns

A note from the Cornell Feline Health Center: Although FIV is similar to human immunodeficiency virus (HIV) and causes a feline disease similar to acquired immune deficiency syndrome (AIDS) in humans, it is a highly species-specific virus that infects only felines. There is currently no evidence that FIV can infect or cause disease in humans.

bowls, is typically not enough to infect a cat. This is good news for indoor cats. If your cat has tested negative for FIV and never goes outdoors or sees another cat, there is very little risk of infection.

Not suprisingly, FIV is frequently found in stray and feral cat populations. Unneutered males, because of their tendency to suffer deep bite wounds from fighting, are especially at risk. As more of these FIV+ cats are being rescued and offered for adoption, here's what you need to know if you are considering adopting an FIV infected cat.

First, keep all FIV infected cats indoors so they cannot spread the virus. If you have a cat that isn't infected with FIV, it is OK to adopt an FIV infected cat and bring him into your home as long as there are no aggressive interactions between the two cats.

Second, remember that FIV is not a death sentence. There are three stages of infection, the middle one being the dormant, asymptomatic phase that can last for many years. Some cats never progress beyond this dormant middle phase, so don't let fear of a shortened lifespan keep you from opening your heart and your home to an FIV+ cat.

During the initial phase of infection, which can last between eight and 12

weeks, cats may show fever, loss of appetite, and lymph-node enlargement. As mentioned above, the next (dormant) phase can last for years, although some cats may experience a painful inflammatory condition in the mouth called gingivostomatitis.

The final phase, the clinical or terminal phase, is when infected cats start to suffer from secondary infections, including neurological disease and cancers, which are frequent causes.

Management of FIV Infected Cats

Keep FIV+ cats indoors to limit exposure to infectious agents and parasites that they may not be able to fend off. See your veterinarian at least twice a year and discuss obtaining bloodwork to screen for health problems proactively.

Feed a commercial (or veterinary nutritionist-designed) balanced and complete diet and avoid raw diets, as these can be contaminated with bacteria or parasites.

Keep core vaccinations (rabies, feline calicivirus, feline herpesvirus-1, feline panleukopenia, and, in some cases, feline leukemia) up to date. It's important to realize that FIV-infected cats may not mount as strong an immune response to vaccines as cats that are not infected.

Sadly, specific anti-viral therapies have not shown much promise. "While there are some antiviral drugs that have, in some cases, been shown to improve clinical signs in FIV-infected cats, none of these therapies have been shown to increase lifespan, and the development of resistant viral strains is of concern when using these drugs. It is important to note, though, that many cats infected with FIV will live normal lifespans provided they are managed appropriately," says Dr. Kornreich.

A few other therapies have potential



An indoor cat who tested negative and is content to just have a canine buddy in her home is extremely low risk for FIV.

for managing the FIV+ cat. Type 1 interferons are proteins produced by white blood cells to help fight off invading pathogens.

While studies of human alpha interferon have shown no decrease in FIV viral load, clinical improvement has been shown in some FIV infected cats. Feline recombinant omega interferon has shown similar results, but this medication has not yet achieved FDA approval, making it difficult to obtain.

If your FIV+ cat suffers from anemia, recombinant human erythropoietin can help him produce red blood cells. Unfortunately, the effect may not be long lasting, as the body can form antibodies against recombinant erythropoietin. Darbopoetin, a newer, longer acting form of erythropoietin, may be a better choice, as it has been shown to be less likely to induce an immune response than other forms of this hormone.

Zidovudine is an anti-retroviral compound used in humans with HIV infection. It has shown some promise in FIV+ cats, particularly those with gingivostomatitis and/or neurologic disease. The downsides are that it can cause life-threatening bone marrow suppression and has the potential to give rise to resistant viral strains. For both these reasons, its use has been limited.

As our understanding of FIV improves and research continues to grow, our FIV+ cats can live better, longer lives. The trick is to follow strict management protocols, including being proactive about any health issues that may arise and to partner with your veterinarian to assure optimal care.

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