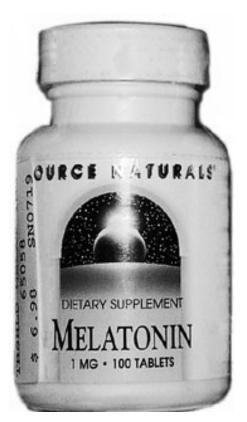
Epileptic Dogs Can Live Normally

Informed care and holistic methods help epileptic dogs live normally

By Maureen Finn - Published: April 12, 2004 Updated: July 29, 2019



EPILEPSY IN DOGS: OVERVIEW

- 1. If your dog displays any behavior that resemble seizures described below, immediately make an a with a veterinarian who has clinical experience w epilepsy for an examination and testing.
- 2. If your dog's seizures are severe or frequent, he medicated as soon as possible. This does not prec exploration of complementary care. Keep your ve with all your treatments, as they may affect medi dosage.

Pleasantly slumbering in the early morning hours of ϵ November day with my dogs cozy and warm next to r began shaking, and I was jiggled half awake. Assumin dogs must be scratching an ear in bed, I mumbled a k conscious "Stop scratching!" But the jiggling continued

must be chasing bunnies in a doggie dream. I sat up to wake the dreamer.

It turned out to be my male, Cutter, paddling at the end of the bed. He didn't wake up when on him and gave him a little shake, raising my voice to rouse him. I realized something was when his neck arched and he began choking, or so I thought. About the time my sleep-fogge figured out that what I was observing was not a dream, but a seizure, it was over. He lay qui side for a few moments, then got up and leaped off the bed as if nothing had happened. Th literal rude awakening into the world of canine epilepsy.



Types of Epileptic Seizures in Dogs

Seizures can occur for a variety of reasons across the whole range of ages, and are the mosneurological disorder found in dogs. Making the diagnosis of canine epilepsy is a process of the seizures are caused by a structural abnormality, such as a lesion or brain tumor, they ar "secondary." Those caused by injury are called "reactive." Seizures whose cause cannot be diagled "primary" or "idiopathic" (which means without cause), and this type, unfortunately, is common.

Idiopathic epilepsy in dogs usually occurs between one and five years of age. It affects virtual and is found regularly in mixed breeds as well. Genetic inheritance is a known contributor to incidence of this disease. Epileptic dogs should never be bred, and responsible breeders will progenitors of epileptic puppies from the breeding plan.

Epileptic seizures range from mild, even barely noticeable "focal" or "partial" seizures to gen clonic" or "grand mal" seizures. Behaviors commonly seen with focal seizures include facial t blinking (often affecting only one side of the face), "fly biting," muscle tremors, and partial lo control with one or more limbs buckling and an inability to coordinate movement. Focal seiz a few seconds to several minutes duration.

Classic generalized tonic clonic seizures can occur at any time, though they frequently happ is relaxed and quiet. (As I learned, waking up to a seizure in the middle of the night is not ur owners of epileptic dogs.) If the dog is awake and moving about, the tonic phase will begin v falling to his side, his legs stiffened, body rigid, and neck stretched out with the head back. I the dog is not conscious, though in general the eyes will be open. There may be facial twitch involuntary vocalization, excessive drooling, and the dog will frequently void its bladder, boy glands.

From here the seizure usually moves into the clonic stage, with rhythmic movements such a jaws and paddling or jerking of the limbs. The dog may also grimace and appear to be choki does not breathe for a short time. While the dog's tongue and mouth may become blue fror oxygen, it is imperative that you do not insert your hand into the dog's mouth, as the anima conscious and you risk being badly bitten as the seizure progresses.

The typical tonic clonic seizure lasts from one to three minutes. (If your dog experiences a solasts longer than four minutes, contact your vet or emergency clinic immediately.)

Experts say that dogs don't experience what are known as "absence" or "petite mal" seizure: These seizures occur as a temporary loss of contact without losing full consciousness. A per experiencing an absence seizure may stare blankly and blink for a short period of time, but believed that, in dogs, what resemble "petite mal" seizures are actually focal seizures.

Needless to say, witnessing a generalized seizure in your pet can be somewhat traumatic fo most seasoned dog owner. It is important to remain calm and not to exacerbate the seizure emotions.

A dog experiencing a tonic clonic does not experience pain, though he may be anxious and upon regaining consciousness. The post-seizure period, known as "post ictal," can also inclu marked ataxia (weakness and uncoordinated gait), pacing, restlessness, and even temporar The dog may also be ravenous at this point; often, a small snack to raise his blood sugar wil resolve the post ictal period.

Some dogs do not experience any noticeable post ictal period at all, others for only a few m some for several hours. The variations in seizure activity are basically as varied as the dogs them; no two are alike, even in the same dog.

Is Your Dog Predisposed to Epilepsy?

Epilepsy can occur in any breed, and in mixed breeds as well, but isn't it mostly a purebred to breeds affected include many of the most popular breeds, and in a 1997 survey of American national breed "Parent Clubs," 22 breeds reported that epilepsy was one of their top five he In a collective ranking of 80 diseases, epilepsy came in third.

In a white paper from a symposium on canine epilepsy conducted at the 1997 AKC's Canine Foundation Canine Health Conference, it was noted that "approximately one to six percent dogs has a seizure problem and most of this epilepsy seems to be genetic. The incidence of varies tremendously by breed, with a very large number of breeds, at least 20, having a high hereditary epilepsy."

Breeds with an established genetic basis for epilepsy include the Beagle, Belgian Tervuren, (Shepherd, Keeshond, Labrador Retriever, Golden Retreiver, Collie, and Welsh Springer Span breeds with high numbers of epilepsy that is undoubtedly genetic in nature, but have not be depth, include the Poodle (all three types), Boxer, Cocker Spaniel, Dachshund, Irish Setter, No Schnauzer, Saint Bernard, Siberian Husky, and Wire Fox Terrier. The white paper from the 1 Symposium on Canine Epilepsy states that "Whenever enough data have been collected for inheritance pattern has to be most compatible with recessive inheritance."

Other breeds known to have a higher than average incidence of epilepsy include the Austra English Springer Spaniel, Boston Terrier, Shetland Sheepdog, and Border Collie.

But while we could find no studies that tracked incidence of canine epilepsy in mixed breed veterinarians in an equally mixed practice (ratio of purebreds to mixed breed patients) repo

mixed breeds being nearly as prevalent as their purebred epileptics. One clinic reported that percent of their epileptic patients are mixed breeds, while another said the majority of their were mixed breed dogs. Obviously these figures are anecdotal and subjective in nature. How hold true that mixed-breed dogs who have one or more parents of breeds known to have in incidences of epilepsy will themselves suffer increased risk of epilepsy (i.e., German Shephe mix, etc.).

The Canine Epilepsy Project is a collaborative study into the causes of epilepsy in dogs. It is grants from the AKC Canine Health Foundation, National Institutes of Health, individual bree private donations. Researchers are from the University of Missouri, University of Minnesota University, and the Animal Health Trust in Great Britain, who are working together to discov mutations (or markers) responsible for hereditary epilepsy in many breeds of dogs.

Participation by the owners of affected dogs and their relatives is essential to the success of Researchers need DNA samples from dogs who have experienced seizures, and immediate normal and affected. Specifically, samples from all available siblings, parents, and grandparneeded. If the affected dog has been bred, all offspring and mates should be sampled as we Participation in this research project is confidential; the names of individual owners or dogs revealed.

Diagnosing Epilepsy in Dogs

The first step in determining a cause for a dog's seizures involves a physical examination an Serum chemistry and complete blood count tests are run to rule out medical issues like dial hypoglycemia, and electrolyte disorders.

A thorough physical exam is necessary to rule out contributors to seizure activity or potenticomplications for treatment, including heart disease, liver disease, lung disease, etc. Tick-bo and viral or bacterial infections are also of concern and should be addressed with this exam veterinarian can perform the initial exam and discuss the general protocol for seizure contributions.

Generally, if a dog experiences fewer than one seizure every four to six weeks, it's considere and watch" without putting the dog on medication to control the seizures. Complementary 1 of great benefit in these cases. If, though, a dog experiences seizures more frequently than experiences cluster seizures (more than one seizure in 24 hours) or "status epilepticus," a lif generalized seizure that doesn't stop, anti- seizure drugs are prescribed.

An examination by a veterinary neurologist is prudent at this time as well. A neurologist in a assist in determining the presence or likelihood of brain tumors or lesions, with an MRI and being two of the most useful procedures for definitive diagnosis.

Epileptic Triggers for Dogs

Toxins and environmental triggers can be a factor, but don't expect your veterinarian to ask this avenue of inquiry is largely up to the pet owner. Many owners of epileptic dogs report t heartworm preventatives, vaccine boosters, and flea control products lower the seizure thresensitive dogs.

Household cleaners and insecticides, paints and solvents, lawn and garden chemicals, and ϵ fresheners and aromatic herbs can also trigger seizures in susceptible animals. Keeping a dof each seizure episode witnessed, with recent activities and environmental exposures note important tool to help determine patterns and begin to gain control.

Conventional Epilepsy Medication for Dogs

For dogs who experience seizures more often than once a month, conventional veterinary r generally recommend starting the animal on one of two drugs. Phenobarbital is the most coused, though potassium bromide is becoming more prevalent.

Phenobarbital and potassium bromide are not FDA-approved for use in dogs and cats, but I accepted treatments for seizure control. Unfortunately, each comes with its own set of signi effects. It is important, though, to reduce the occurrence of seizures, so it's wise to at least it medicate with these drugs as you continue to research and look into other improvements it help gain control.

Phenobarbital is a long-acting barbiturate that depresses the central nervous system and bl activity. The drug must be administered at 12-hour intervals, and since physical drug depen common, it must never be discontinued abruptly.

Initial side effects of phenobarbital include sedation, ataxia, lethargy, and increased thirst are These generally diminish over time, though the increased appetite tends to remain. More see effects can include liver damage and liver failure, anemia, and profound depression.

It is critical to perform regular blood tests on medicated dogs to monitor their liver function anemia. Bile acid testing is recommended along with blood serum chemistry and CBC to defoliver disease. A blood test to monitor phenobarbital levels in the blood is also recommendusually done two weeks after starting or changing dosage of the medication, and then routi month intervals to be sure the concentrations remain in the intended range.

Many holistic veterinarians will recommend that dogs taking phenobarbital also take natura protective herbs like milk thistle or dandelion to assist in protecting the liver from damage.

Potassium bromide (KBr) is frequently used alone or in conjunction with phenobarbital for c seizures aren't controlled with phenobarbital alone. It is the bromide that inhibits seizure ac reducing excitability of nerve cells in the brain where seizures begin. Because it has no effect is often chosen for dogs with liver damage. It must be obtained through a chemical supply c compounding pharmacy.

It may take as long as four to five months for the blood levels of potassium bromide to stab months for the full effect of a dose change to occur, though antiseizure activity occurs befor are completely stable. Side effects can include temporary sedation and ataxia for several we dog adjusts to the medication (especially with dogs who are also given phenobarbital or any sedative medication), loss of appetite, and vomiting.

Potassium bromide should be used with caution in dogs with renal insufficiency. Though raincreased incidence of pancreatitis has been noted in dogs medicated with potassium brom change must be made very slowly, and even an occasional treat must be considered careful any changes in the amount of salt in the diet can drastically alter the effects of the medication increase in dietary salt may decrease the drug's effects, and a decrease in salt can increase the effects.

There are several other antiseizure drugs being used in dogs, usually in severe, hard-to-con-These include zonisamide, gabapentin, felbamate, clorazepate, valproic acid, and Keppra. Al considered add-on medications to conventional canine anti-epilepsy drugs. These crossover from the treatment of human epileptic seizures are generally not as effective due to their sh canines. For example, the elimination half-life of Keppra in dogs is 3.5 hours, compared to 7 people.

Hypothyroid a Possible Factor

One often-ignored aspect of seizure activity is the presence of hypothyroidism, or underacti function. The "classic" hypothyroid dog is typically presented to his veterinarian with skin an behavior concerns, or reproductive problems, but there are many other indicators of hypotlall of them immediately noticeable.

One of the many symptoms of an underactive thyroid gland is seizures. In a report at the 19 Holistic Veterinary Association's annual conference, W. Jean Dodds, DVM, and Linda P. Arons reported that an independent study of 634 dogs with abnormal behaviors (including 189 selfound that 77 percent of the dogs experiencing seizures were hypothyroid.

When testing thyroid function in an epileptic dog, it's important to perform a full panel thyro opposed to testing only the T4 and/or TSH, as is common. Evaluation of all six aspects of thy

is essential to the whole picture of the dog's thyroid health.

Where a T4 alone may not indicate any abnormalities, the additional information provided k Free T4, T3, Free T3, as well as the T3 and T4 autoantibodies, can help a knowledgeable vete determine whether or not the thyroid gland is functioning normally.

Dogs with low thyroid function should be supplemented with thyroid replacement hormone in six to eight weeks.

Note: Antiseizure medications like phenobarbital are known to cause low thyroid values, the should be taken into account by the veterinarian when evaluating test results. Thyroid replatherapy is not recommended in these cases. Once optimum levels are achieved, rechecking a year is adequate.

According to Dr. Dodds, 80 percent of epileptic dogs found to be low thyroid and subsequer with thyroid supplement see a decline in seizures, with three quarters of these seeing a maj and even elimination of seizure behavior.

The other one-quarter of this 80 percent experience lengthened intervals between seizures reduction in the severity of the seizures. No significant changes to seizure activity was seen of thyroid-supplemented epileptic dogs.

Holistic Epilepsy Treatment for Dogs

What about natural treatments? Holistic care of epileptic dogs is very effective for those dog seizures occur infrequently, or to augment conventional medical treatment. With compleme many dogs are able to maintain a lower incidence of seizures on a reduced (or, in some case eliminated) dosage of conventional drugs. Complementary treatments, however, should neconsidered a substitute for conventional medical care, and seizures must be kept to an absorbinimum.

That said, an examination and consultation with a holistic veterinarian can open up new ave improved seizure control and bring about improved health in an epileptic dog. Acupuncture remedies, chiropractic, Chinese herbs (especially for liver "wind"), and Western herbs have a by owners of epileptic dogs to improve health and achieve a successful balance in care.

Of particular note is the use of "gold bead therapy," in which magnetized gold beads are per inserted at acupressure points by an experienced practitioner. This bizarre-sounding treatm known to reduce and even eliminate regular seizures in some epileptic dogs. Donna Kellehe holistic practitioner in Seattle, has had success with this procedure and chronicles one case

epileptic patient in her book, Last Chance Dog.

Diet and Epilepsy Link

Environmental control is a significant element in gaining better management of your dog's s with what goes into him. Feeding a home-prepared diet, cooked or raw, can make all the dif some dogs. Though there are virtually no studies to determine whether there is a relationsh diet and seizure activity, many holistic veterinarians report anecdotal evidence that a top-qu prepared diet can play a large part in management of seizures.

Allergy testing for grain and protein sensitivities is another tool you can use to identify and in potential seizure triggers.

Dr. Kelleher also advocates the use of taurine supplementation for epileptic dogs at a dose milligrams per 40 pounds body weight daily. Taurine supplementation is especially importation who eat commercial and grain-based diets. This amino acid is found in the central nervous skeletal muscle and is concentrated in the brain and heart. It's unknown whether that has a with the fact that taurine supplementation can reduce seizure activity, especially in those do experiencing tremors or noise triggered seizures. Discuss this or any other supplement with veterinarian.

If feeding a home-prepared diet isn't possible, find the highest-quality commercial dog food diet, including treats, should be kept to a minimum.

Keep in mind that many commercial dog foods include rosemary extract and sage, both of a known to be seizure triggers in some sensitive dogs. Processed treats like rawhide chews ar should also be avoided with epileptics. Sharing human food containing MSG or cured produ dogs and luncheon meats is also not recommended. Many human takeout foods, instant, reand convenience foods also contain chemical ingredients that can be adverse to the health prone dog. Cleaning up your dog's diet is good incentive to do the same with your own.

Frequent, small meals are helpful in managing epilepsy, as keeping the blood sugar stabilize help. Hypoglycemia can contribute to seizure activity, especially in smaller breeds where the digestive tract and his meals are proportionately smaller. Grain products are especially sust who have seizures regularly. Feeding frequent, small meals is also helpful for coping with th hunger experienced by dogs who are given phenobarbital. Snacks such as fresh or steamed fruit pieces are great low calorie treats that can keep your dog satisfied and increase his sei: threshold.

Other Canine Epilepsy Triggers

Despite the changes in recommended vaccine protocols recommended by most of the major based veterinary medical schools, many veterinarians continue to recommend annual vaccination their patients. In a seizure-prone dog, a vaccine booster can trigger seizure activity for at lear this is one reason that Dr. Dodds recommends avoiding routine vaccination for canine epile

Many owners of epileptic dogs ask their veterinarians to test their dogs' vaccine titer levels i ensure the animals have adequate antibodies to protect them from disease. If the results in does not have adequate immune protection for a particular disease, the appropriate vaccin administered individually, rather than in a "5 in 1" vaccine combination.

Regular rabies vaccines are required in each state by law. These vaccines can be especially r epileptics; owners of epileptic dogs have lots of anecdotal evidence of this. Check with your municipality to see if proof of adequate vaccine titer test results are acceptable in place of v epileptic dog annually. Many towns and cities will accept documented titer tests as proof of

Since exposure to many chemicals can trigger seizures in sensitive dogs, it should not come that many heartworm and flea preventative treatments that are systemically administered of disastrous for many epileptic dogs. While elimination of these treatments is not always possemust be taken with a seizure-prone dog when preventing heartworm infestation. Several of popular heartworm preventatives actually list tremors or convulsions as rare side effects, are contraindicated with a dog that is given daily phenobarbital.

Flea products containing insect growth regulator can cause twitching and muscle weakness animal is overexposed. Keep in mind these cautions are given for normal canine population is commonly more sensitive to these products and great care must be taken when protectir heartworm and flea infestation.

Epilepsy Management Techniques

The most important thing to remember about dealing with a seizing dog is to keep calm. Se are known to be triggered by stress and loud noises. Household or family tensions can wrea an epileptic dog. Worrying about and coddling an epileptic can make them more anxious ar prone. Sudden stimulation or excitement can also trigger seizures.

This is where herbs and natural treatments can be very helpful. "Nervines" like skullcap and reduce anxiety and excitability. Skullcap, or Scutellaria, has been shown to affect the area of where seizures are triggered, and regular dosing can help reduce the frequency and severit

Valerian, or Valeriana officinalus, is indicated more for general anxiety and can be used with experience prolonged post ictal periods of pacing and restlessness. A little goes a long way

valerian;don't give too much, as it can actually have the opposite of the desired effect, causi excitability in some dogs.

Tinctures are considered the easiest way to administer these herbs, with a dose of 10-20 dr 20 pounds of body weight given up to three times a day. If your dog is currently receiving comedications to combat epilepsy, discuss these herbal remedies with your holistic veterinaria using them.

Another excellent aid in calming your pet, and especially for post ictal recovery, is melatonir occurring hormone that is associated with the sleep cycle of mammals. It can be a wonderful dogs who are noise-sensitive, fireworks- or thunder-phobic (see "Bring in 'Da Noise," WDJ Mahas also been found to aid epileptic dogs.

Many dogs who typically have seizures at night or in the early morning can benefit from a si some melatonin before bedtime. The food helps to keep blood sugar stabilized and the mel in maintaining a regular sleep pattern. A dose of 1.5 mg of melatonin for dogs under 40 pour for dogs 40-100 pounds is adequate. Dogs over 100 pounds can take up to 6 mg.

Another area where epileptic dog owners have found melatonin to be beneficial is during the phase of a seizure. For dogs who have prolonged or profound post ictal symptoms, a dose of seems to aid in shorter and less intense symptoms. A very few dogs experience increased a melatonin is given, and it may not work for every animal.

Rescue Remedy, a combination of five different flower essence remedies, is indicated for str fear, and emergency situations. (Rescue Remedy is the name of the remedy made by Nelson the original maker of these remedies; competing companies sell the same combination of rounder different names, such as Ellon USA's "Calming Essence" and Healing Herbs' "Five Flow

Some dog owners report that it works miracles; others say it just doesn't affect their dogs. T it helps their dogs use a few drops in the mouth, applied inside the ear leather, or directly o an actively seizing dog.

Rescue Remedy does not interact with any other medication and can be given as often as not many owners routinely putting it in their dogs' water. Some dog owners find it helpful to pur of Rescue Remedy on a teaspoon or two of an all-natural vanilla ice cream for a speedier porecovery. The ice cream helps to bring the blood sugar back to normal after the tremendous from epileptic convulsions.

Rescue Remedy is also a great stress-reliever for caretakers of epileptic dogs, and especially the all-natural vanilla ice cream!

Hope for Epileptic Dogs

There is no cure for epilepsy, but it can be managed in cases. The only constant that seems managing this disease is that no two dogs will respond the same way to the same treatmen researching care for your epileptic dog you may learn about many supplements, aids, and to have helped some dogs. These may or may not help your dog, however, and you should dis them with your veterinarian before administering.

Finding a vet who has had clinical experience with epileptics is also important. Developing a nurturing that relationship will be essential in the care and well-being of your dog. Epilepsy managed, but only with a committed, cohesive team of doctor (or doctors, if you add a holis practitioner to your healthcare team), owner, and patient.

Finally, while even the best care and management cannot always stop regular seizures, with conventional and holistic treatments, the frequency and severity of seizures can be reduced there is hope, and the great likelihood that my dog Cutter and epileptic dogs like him will leactive, happy lives.

Maureen Finn is a f	reelance writer from Sai	mmamish, WA. This	is her first article fo	r Whole Dog J
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