

HOW CBD WORKS IN ANIMALS IN REVIEW

CBD pretty much work the same way in animals as it does in us humans. CBD is one of many compounds found in cannabis whose molecules structure mimics chemicals produced by our bodies' endocannabinoid system (ECS). When we take CBD, it activates the ECS, triggered signals throughout the central and peripheral nervous system and relaying messages from the brain to the body. The messages happens via two types of receptor CBI receptors are generally found in the center nervous system (the brain and spinal cord) and also in the liver, gut, adrenals cardiovascular system, or and the region of the brain responsible for managing fear and anxiety.



CB2 receptors are primarily located in the immune system and are thought to promote relaxation and pain relief by reducing inflammation. According to a 2019 article in the journal Animals, the ECS developed concurrently with the development of the nervous system as multicellular animals developed

increasing in complexity. Bird has an ECS, reptiles have one, and so does cats, and dogs, horses, snakes, fish, Lobsters, even leeches.

In us humans, the ECS is like an underappreciated. It operates in the background, but keeps that train running on time. Its most important function is to promote systemic balance and coordinate other bodily functions. As such, it is known to play a role in regulating balance, sleep, appetite, digestion, cognition, mood, reproduction, and our immune response. Anecdotal and scientific evidence is mounting that your pet's ECS does the exact same thing and that CBD may provide relief for the following conditions.

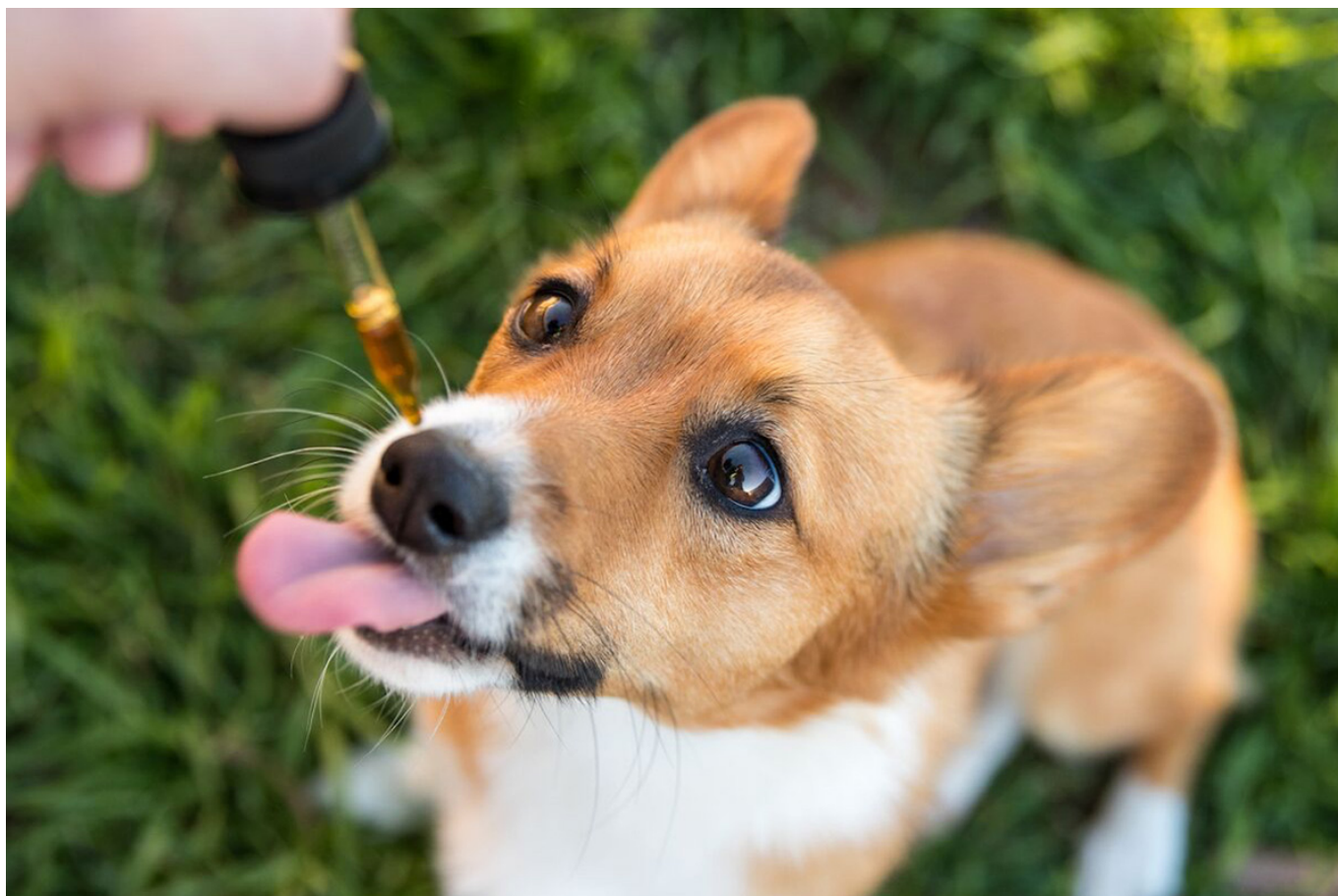
PAIN



Because CBD is a proven anti-inflammatory, it can be extremely helpful in relieving pain and swelling from extra-long hikes,

injuries, arthritis, and inflammatory diseases. A study conducted in 2018 at Cornell's College of Veterinary Medicine found that CBD oil helped a majority of dogs with osteoarthritis. Typically, vets treat osteoarthritis with nonsteroidal anti-inflammatory drugs (NSAIDs), which may not actually kill all of the pain and can have some side effects like kidney and stomach damage. Researchers discovered that in 64 previous studies and clinical trials with dogs, NSAIDs caused unwanted side effects 55% of the time. Using 2mg/ kg of CBD oil twice a day on dogs with osteoarthritis, the Cornell scientists found that 80% of a dog, all showed improvement in pain as well as mobility.

EPILEPSY



The majority of vets, typically prescribed super heavy-duty meds like diazepam, potassium bromide, and phenobarbital to stop seizures. However, those drugs don't work for 30% of pet

and they can cause serious side effects, including permanent liver and kidney damage. This is why my friends, CBD is such an alternative. The only CBD product currently approved for humans by the FDA is Epidiolex, which is used to treat seizures in patients with Dravetsydrome and Lennox-Gastaut syndrome (LGS).



Veterinarian researchers now see a glimmer of real hope for our beloved pets. A Colorado State University study published in the June 2019 issue of the Journal of the American Veterinary Medical Association assessed the short term effect of CBD on the frequency of seizures. Researchers studied 16 dogs over the full course of 12 weeks. Nine dogs were treated with CBD, and the other seven dogs in the control group were treated with a placebo.

The CBD group received CBD infusion oil (2.5 mg/ kg [1.1 mg lb]) twice a day for the entire 12 weeks. At the end of this study, 89% of dog treated with CBD had fewer seizures. On average, seizures dropping by 33% and blood levels of CBD

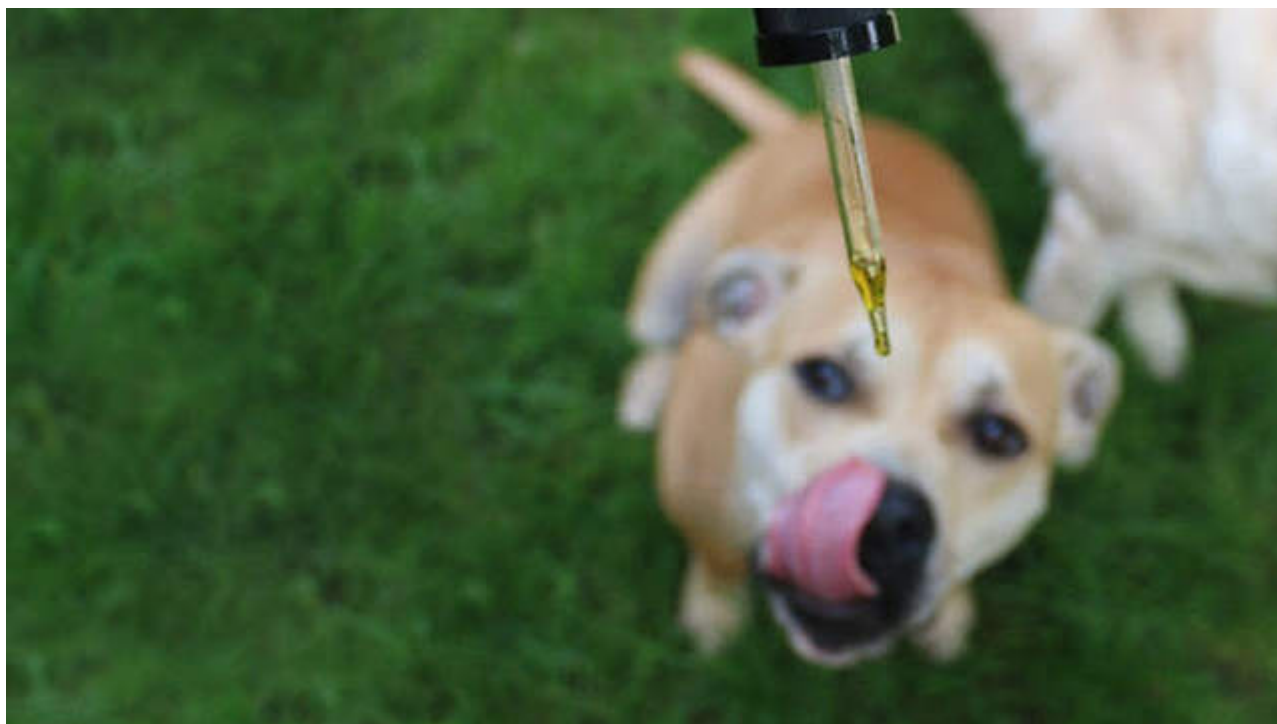
directly correlated to a reduced number of seizures. Our dog owners reported no adverse effects in health or behaviors from their dogs taking CBD.

STRESS



Dogs are particularly prone to separation anxiety; they are naturally social creatures, they love company, and can develop attachments to people and routines. Separation and generalized anxiety in dogs, and cats, results in undesirable behaviors, like barking or yowling, aggression, destruction, obsessive grooming, depression, and loss of appetite.

CBD has the potential to reduce anxiety and the unwanted behavioral patterns associated with it. Traditional treatment like sedatives or antidepressants can produce undesirable changes in companion animals; CBD may carry fewer side effects, if any at all and provides similar benefits.



If your furry friend tends to freak out at thunderstorms, fireworks, and strangers on the street. Or guests that come to your home, CBD just may help. The 4th of July and Halloween brings on high anxiety levels for dogs of all ages. CBD can take the edge off and prevent unwanted behaviors such as scratching at doors, barking at windows, whining, panting, shaking, pacing, and uncontrollable urination.

MOOD & INSOMNIA

CDD has also been shown to help with psychosis, hallucinations, behavioral disorders, as well as Sleep disorders. A study in 2016, that was done by researchers in Brazil, found that CBD helped the brain's synapses become much more flexible, allowing for better memory, and learning. CBD also helps the brain create new neurons and new cells in the rest of the nervous system. These scientists said those processes helped reverse brain damage, and they eased psychotic symptoms, anxiety and depressed behaviors.

BRAIN FUNCTIONS



CBD salvages and defends the nerve cells, and it can be particularly helpful for conditions like intervertebral disc disease, dementia, and degenerative myelopathy (WHICH IS, A PROGRESSIVE, DEGENERATIVE DISEASE OF THE SPINAL CORD). In 2017, the Salk Institute produced tantalizing research suggesting that cannabis can help reverse the buildup of proteins in the brain that contribute to dementia in humans.

Also in 2008, researchers in Bilbao, Spain, tested the neuroprotective effects of CBD on some piglets with hypoxia-ischemia (insufficient blood flow to the major organs). Scientists studied the number of seizures as well as the brain damage done by the lack of oxygen. The animals that were treated with CBD, saw a 50% reduction in seizures and brain

damage, with absolutely no side effects at all.



The CBD also provided beneficial effects to blood flow, heart function, and respiration. Concluded by the scientists, CBD demonstrated neuroprotective benefits beyond what the brain could actually do on its own after suffering injury from a lack of oxygen, including reducing seizures and aiding, the healing.

All in all my dear friend, the early research without a doubt, shows CBD could help reverse brain damage as well as ease anxiety, psychotic symptoms, and behavior of depressed. However, my friends because, the FDA doesn't currently regulate CBD there is a lot of variability in products on the market. So please be wise, and do your research. As I am an animal lover, I sincerely hope that this review will help you and all of your furry friends.

May good health be always with you, and your furry friend.

Humbly yours Paul Earl.

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