



Hemp CBD Oil For Dogs

Learn the Science Behind
this Natural Product



by LolaHemp

THE ULTIMATE GUIDE TO HEMP CBD OIL FOR DOGS

LEARN THE SCIENCE BEHIND THIS
NATURAL PRODUCT

INTRODUCTION	4
UNDERSTANDING CBD: WHAT IS IT?	5
IS CBD OIL SAFE FOR DOGS?	6
HOW DOES CBD OIL WORK FOR DOGS?	6
THE ENDOCANNABINOID SYSTEM	6
THE BENEFIT OF FULL SPECTRUM CBD OIL FOR DOGS	7
HOW DOES CBD AFFECT DOGS? 10 POTENTIAL BENEFITS	8
1. Pain Relief	9
2. Reduces Inflammation	10
3. General Anxiety	11
4. Aggression	12
5. Phobias: Fear of Cars, Thunderstorms, and Separation	13
6. Sleep	14
7. Cancer	15
Tumor Shrinking Effects	15
Alleviate Side Effects	15
Boosted Immune System	15
Enhance the Action of Chemotherapy	15
8. Skin Problems	16
9. Intestinal Health	17
Gastrointestinal Motility	17
Intestinal Barrier	18
The Brain Gut Axis	18
10. Reducing Other Medications	19
HOW MUCH CBD SHOULD I GIVE MY DOG?	20
LolaHemp: QUALITY CBD OIL FOR DOGS	21
Organic Hemp	21
Batch Lab Testing	21
Real Full Spectrum Hemp Oil	21
Just for Dogs	21
Commitment to Animal Welfare	21
OUR STORY - HOW WE STARTED LolaHemp	22
CONCLUSION: IS CBD OIL GOOD FOR DOGS?	23
WORKS CITED	24

INTRODUCTION

Have you heard the buzz about CBD oil for dogs but aren't sure if it's just a hype driven trend or a natural product with research to back up its health benefits? If so, this comprehensive guide is just for you.

We have designed this guidebook to give you all of the information you need to make an informed decision about whether or not this CBD oil is right for your dog.

Here at [LolaHemp](#), we are committed to helping to educate people about cannabidiol, a natural product found in the extract of hemp, a non-psychoactive species in the cannabis family of plants.

Throughout this guide, you will notice **citations to nearly 60 peer reviewed scientific journal articles** covering the researched properties of CBD which we will explain in this comprehensive guide.

If you think that this resource would be helpful to another dog lover in your life, please feel free to share this guide. We want to be sure anyone that needs this information has it!

In this guide, we will answer these common questions:

- What is CBD and where does it come from?
- Is CBD oil safe for dogs?
- How does it work?
- What does full spectrum mean, and why is it better for my dog?
- What are the science based potential health benefits?
- How can I make sure I buy a quality CBD oil for my dog?

Additionally, we will share the research behind CBD and how it can help with:

- PAIN
- INFLAMMATION
- GENERAL ANXIETY
- AGGRESSION
- PHOBIA (fear of cars, thunderstorms, or separation)
- SLEEP
- CANCER
- INTESTINAL HEALTH
- REDUCE OTHER MEDICATIONS

IMPORTANT: *We have designed this guidebook to give you all of the information you need to make an informed decision about whether or not CBD oil is right for your dog in consultation with your veterinarian. This guide is not intended to replace diagnosis or treatment from a veterinarian. Since symptoms can be a sign of a serious medical condition that requires immediate medical attention, and because CBD can interact with other medications, always have your dog checked out by a veterinarian before using natural products or even making major dietary changes. Better safe than sorry!*

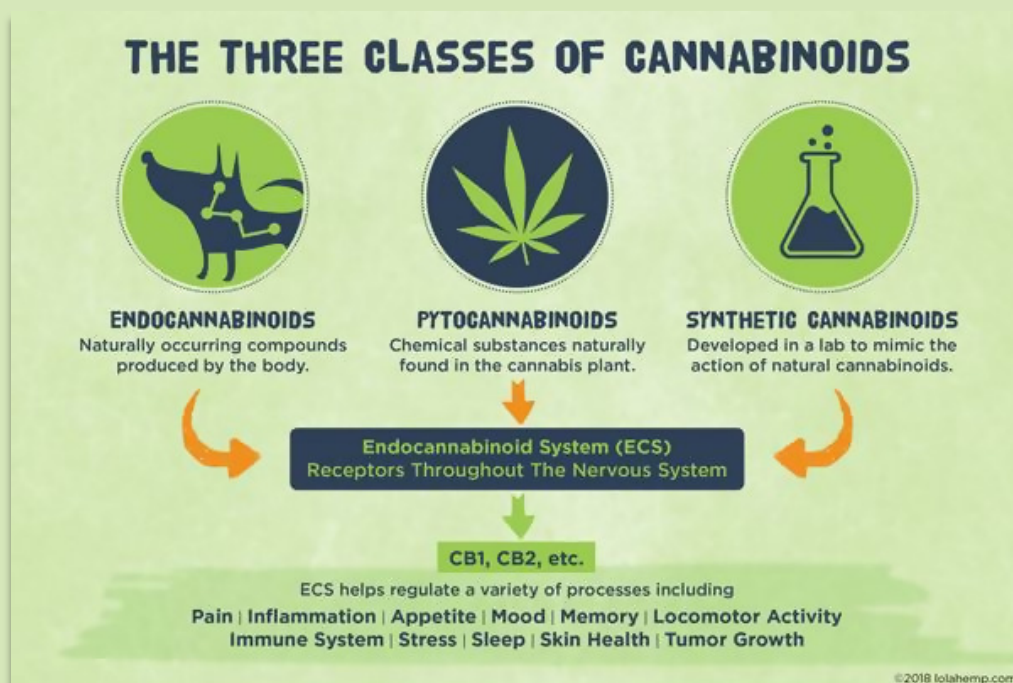
UNDERSTANDING CBD: WHAT IS IT?

CBD, also known as cannabidiol, is a non-psychoactive compound found in hemp. It is among over 80 naturally occurring substances known as cannabinoids that are found in this special strain of cannabis. There are three main classes of cannabinoids: endocannabinoids, phytocannabinoids, and synthetic cannabinoids.¹

Endocannabinoids: These are compounds that are naturally produced by the body as part of the Endocannabinoid System (ECS). They are considered “neuroregulatory” molecules which means they interact with the nervous system to promote homeostasis, or balance, to a variety of natural processes. A prominent example is Anandamide, which among other things, is associated with euphoric feelings, including the so-called “runners high.”

Pytocannabinoids: These are chemical substances that are naturally found in the cannabis plant and include hundreds of compounds, only a fraction of which have yet to be carefully studied for their potential benefits. The two primary and most well researched examples include CBD and THC. However, other lesser known cannabinoids have also become of interest to medical researchers, including **CBG (cannabigerol)**, **CBC (cannabichromene)**, and **CBL (cannabicyclol)**.

Synthetic Cannabinoids: These are a class of cannabinoids that have been developed in laboratory settings. Their purpose is to mimic the action of natural cannabinoids on the ECS. They are often patented by the pharmaceutical companies that design them. Unfortunately, included in this class are also illegal drugs that can be dangerous and addictive, such as synthetic marijuana made for illicit recreational use. On the other hand, pharmaceutical companies are also interested in developing synthetic cannabinoids for novel treatments, for example the FDA approved drug Marinol®.



IS CBD OIL SAFE FOR DOGS?

You may be concerned about giving your canine companion a product made from cannabis. After all, you may have seen news reports about pets overdosing from eating their owner's marijuana infused edibles or a stash of recreational cannabis. Who can blame you for being skeptical?

However, and this is important, CBD oil is made from hemp. This plant is a very special variety of cannabis that contains only trace amounts of THC, the compound that causes the "high" as well as toxicity to dogs in very large doses. This is the opposite of cannabis made for medicinal or recreational use where selective plant breeding has created strains that have extremely high concentrations of THC.

CBD oil is safe for your dog because it does not contain anywhere near enough THC to be a problem for canines, even in relatively large doses. In fact, a small amount of THC is thought to boost the benefits of CBD (read on to learn more). Furthermore, the safety of cannabidiol has been verified by several scientific studies.² This has also been verified at high doses on canines.³ In fact, as we will explore below, it has a better safety profile than drugs that are currently widely prescribed for pain in dogs, such as opioids and NSAIDs.

HOW DOES CBD OIL WORK FOR DOGS?

THE ENDOCANNABINOID SYSTEM

In the process of trying to understand how cannabinoids work, scientists discovered the Endocannabinoid System (ECS) in 1988. The ECS is now considered a distinct biological system that includes specific neurotransmitters and receptors that are found throughout the body.⁴ Although the ECS is most concentrated in the central and peripheral nervous system, it is also active in the skin, immune system, and digestive system.^{5,6,7,8}

Over and over, subsequent scientific research has shown a wide variety of ways in which the ECS works as part of a signaling system that promotes homeostasis, in other words balance, across many bodily functions and processes.

Yes, your dog has an endocannabinoid system too! In fact, all animals do (with the possible exception of some very primitive invertebrates).⁹ It seems that the medicinal qualities that have been associated with cannabis for thousands of years might not be so ridiculous after all.

THE BENEFIT OF FULL SPECTRUM CBD OIL FOR DOGS

Holistic healers throughout history have often touted the virtues of whole-plant medicine, suggesting that the plant itself has a perfect balance and its healing properties are best taken in the natural context. That may not be true in all cases, since clearly the refinement of certain plant compounds can have its own benefits. However, when it comes to hemp, science has started to verify the whole-plant philosophy.

The so called “**Entourage Effect**” is a term that was coined from cannabis research done in the 1990’s by Israeli researchers led by Raphael Mechoulam, the scientist who first isolated THC and subsequently CBD.¹⁰ This theory, which has since been verified and expanded to include natural compounds known as terpenes also found in hemp, suggests that even trace amounts of one cannabinoid can enhance the effect of another by amplifying it through the ECS.¹¹

It turns out that the endocannabinoid system (ECS) is complicated, sensitive and still holds plenty of mystery that scientists are racing to understand!

You will find that a true full spectrum oil, such as LolaHemp CBD oil for dogs, usually contains trace amounts of THC when you look at the lab reports. This small amount, along with the other cannabinoids naturally found in hemp, can boost the health benefits of a full bodied hemp oil over one based on a CBD isolate, without causing any side effects such as confusion or a “high” in your dog.

LET’S TURN NEXT TO A CLOSER LOOK AT HOW CBD OIL FOR DOGS WORKS BY INVESTIGATING SOME SPECIFIC BENEFITS AND THE RESEARCH BEHIND EACH.

HOW DOES CBD AFFECT DOGS? 10 POTENTIAL BENEFITS

The clinical research on CBD for dogs specifically is less well developed than that on humans, as is always the case with advances in medical research. However, it is widely thought that, in terms of the ECS, the same processes apply in both cases. Where possible, our review includes canine specific research, supplemented with studies that document the action of cannabidiol in humans, animals, and in *vitro*.



1. Pain Relief

America is in the midst of an opioid epidemic, thanks in large part to the gross over prescription of pharmaceutical opiates for pain management. The crisis has prompted a burst of new research searching for safer and non-addictive drugs to treat both chronic and acute types of pain.

The most promising has been research into the role that cannabinoids such as THC and CBD play in terms of interacting with the nervous system to mitigate the perception of pain. In fact, a few pharmaceutical drugs have been refined from cannabis for this purpose, and in other cases, these cannabinoids have been synthesized in laboratories for their ability to treat pain.

Luckily for dogs, identifying safer ways to treat pain are likely to translate to veterinary medicine, albeit with a slight delay. It probably won't be long before pharmaceutical companies are making synthetic cannabinoids for use in dogs. Luckily, [natural CBD oil formulated with dogs in mind](#) is already available without a prescription.

Pain is generally classified into two groups: neuropathic and nociceptive. **Neuropathic pain**, or nerve pain, is associated with a break down in the nervous system, such as with some neurodegenerative diseases or spinal injuries. Many forms of chronic pain have at least an element of neuropathic pain. **Nociceptive pain** is that associated with injury or tissue damage. For example, if your dog has recently had an injury or a surgery, the pain they are experiencing is likely this type of pain.

CBD oil has been shown to be effective for both neuropathic and nociceptive pain in multiple research studies.¹²⁻¹⁴



2. Reduces Inflammation

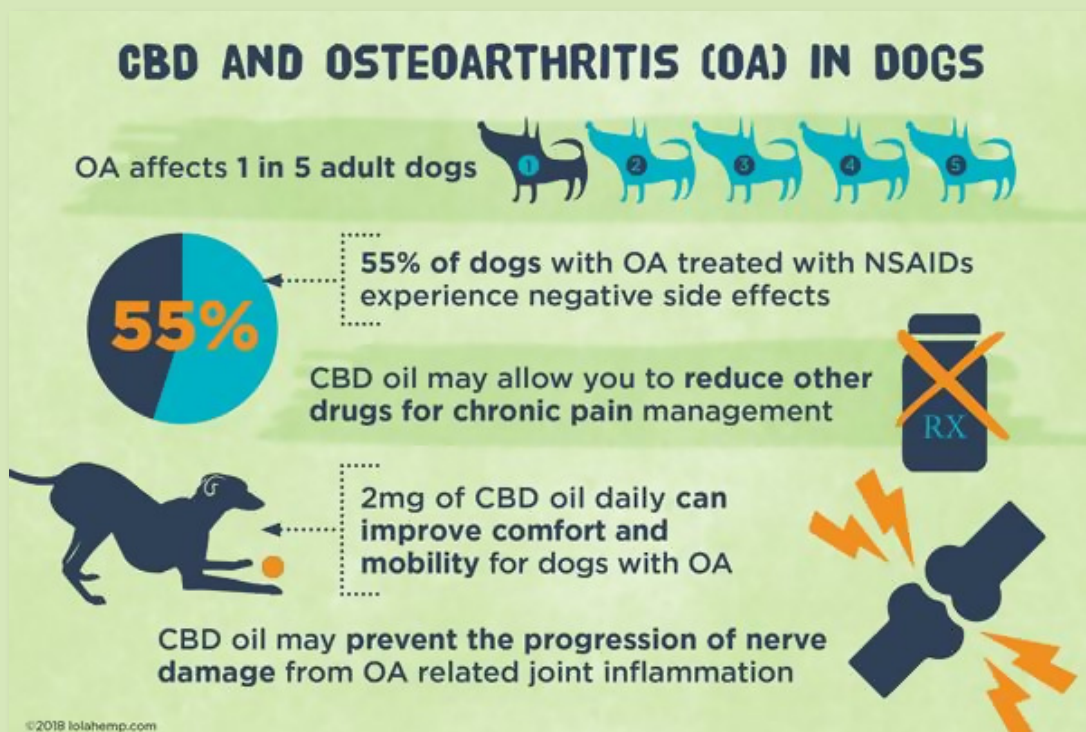
CBD oil has potent anti-inflammatory effects that have been well researched in repeated scientific studies.¹⁵

Inflammation can be caused by a variety of problems, including injuries, allergies, and chronic conditions. When it comes to dogs, a variety of conditions can include inflammation, many of which may benefit from CBD oil. For example, inflammatory bowel disease, tick borne illness such as Lyme disease, hip dysplasia, and dermatitis are all associated with inflammation (among many others).

The traditional “go to” for the treatment of inflammation are NSAIDs, a class of drugs known to have serious, and in some cases, fatal side effects. (Read on to learn more.) This is particularly a problem for conditions associated with chronic inflammation, such as Osteoarthritis (OA).

As our graphic below shows, OA is a serious problem that affects many of our canine companions, and senior pets in particular. In addition to being a source of pain, the progression of OA often leads to a significant decrease in mobility and quality of life for our furry friends. Cannabinoids been identified as having potential therapeutic benefit for both dogs and people with OA.^{16,17}

Even more exciting? Early research has shown that CBD oil may do such a good job at reducing inflammation due to OA that it can actually prevent nerve damage that occurs with the progression of this disease!¹⁸



3. General Anxiety

Because of the ECS and its role in regulating mood, cannabinoids have been the subject of a fair bit of research in psychological disorders. Among the most well researched is that of CBD oil and its anti-anxiety properties.¹⁹

In fact, cannabidiol has been shown to have therapeutic potential for the following types of anxiety in humans:

- Generalized anxiety disorder
- Obsessive compulsive disorder
- PTSD
- Panic disorder
- Social anxiety disorder

We can't talk to dogs, so it probably comes as no surprise that these categories of mood disorders don't really map on to our dogs per se. However, the underlying triggers and/or neurological imbalances that cause anxiety problems likely do have more in common than not.

And, some dogs do seem to be more naturally "neurotic" than others. In some cases your vet may even prescribe prescription pharmaceuticals to help calm your nervous dog. However, you may want to give all natural CBD oil a try first. It is available without a prescription and you may find that your canine companion is more relaxed but still alert with a small daily addition of this organic product.

Many holistic vets as well as pet owners have already discovered the calming effect of natural and safe [CBD oil for dogs](#). Its use in the treatment of anxiety related problems such as aggression and phobias is where we will turn to next.



4. Aggression

Dog aggression is a common behavioral problem that can be difficult to resolve. Unfortunately, thousands of dogs are surrendered every year to animal shelters because of aggression problems. The ASPCA has identified 11 distinct types of dog aggression²⁰ which include:

One thing you may notice about the ASPCA list above is that many of these types include some aspect of anxiety – anxiousness about possessions, rank in the hierarchy, or safety. As we discussed in the previous section, one of the most well-known health benefits of cannabidiol is its anti-anxiety properties.²¹⁻²⁴ In such cases, CBD oil may be an effective part of an overall behavior modification program to help your dog stay calm in situations that are stressful for him.

Dog aggression is a very complex behavioral problem that includes a wide range of behaviors, severity, and different levels of danger to people or other pets. In many cases, aggression in dogs can require the help of a professional animal behaviorist or experienced trainer to get under control.

If your dog suffers from aggression against people, other dogs, or other pets, talk to a professional trainer about how [natural CBD oil made from organic hemp](#), combined with training, can help make your dog feel calmer and more confident in the face of triggers.



5. Phobias: Fear of Cars, Thunderstorms, and Separation

As the graphic below shows, phobias are a common problem for our canine companions. Phobias such as fear of cars, thunderstorms, or being left alone all have one thing in common: acute anxiety. Like aggression, phobias in dogs are complicated behavioral problems that, in severe cases, require the help of a professional trainer. CBD oil is not a cure-all for dog phobias, but it can help dramatically.

As we covered in the sections above, cannabidiol has powerful anti-anxiety effects. Not unlike similar problems in people, such as Social Anxiety Disorder (SAD) or Post Traumatic Stress Disorder (PTSD), dog phobias are about the tight association between a trigger (or specific stimulus) and an emotional reaction, in this case, panic.

We already talked about how CBD oil has anti-anxiety effects because of its role in mood regulation via the Endocannabinoid System. However, when it comes to phobias, there is something even more exciting to know about CBD. Recent research has shown that cannabidiol acts to disrupt the memory of trauma, essentially decoupling the stimulus and conditioned emotional response.²⁵

In simple terms, CBD oil can help the brain and nervous system “forget” the root trauma that is often at the core of dog phobias. Many trainers have found it can hasten results over behavioral reconditioning training alone.

CBD OIL AND NOISE PHOBIA IN DOGS
As many as 50% of dogs experience some form of noise phobia.

COMMON TRIGGERS INCLUDE:

- Thunderstorms
- Fireworks
- Gunshots

POSSIBLE NOISE PHOBIA FEAR RESPONSES INCLUDE:
Escape attempts | Whining | Drooling | Panting | Pacing | Trembling | Barking

NOISE PHOBIAS IN DOGS CAN APPEAR AT ANY AGE.
Risk factors include:

- Trauma
- Being separated from mother too early
- Lack of exposure to the sound as a puppy
- Certain breeds may be predisposed to anxiety

CBD OIL FOR DOGS CAN:

- Reduce acute anxiety
- Compliment a desensitization program
- Help your dog overcome phobias!

©2018 lolahemp.com

6. Sleep

If your dog is experiencing problems sleeping through the night, it is important to rule out a few common causes first. For example, puppies often need to use the potty more often than a full night allows for. Other conditions such as kennel cough, irritation from allergies, pain from an injury, and even congestive heart failure can be the cause of sleepless nights.

It is important that you speak with your vet if your dog is having trouble sleeping in order to rule out any of these serious problems. However, like people, some dogs seem to suffer from plain old poor sleep. In such cases your vet may recommend cannabidiol as part of a treatment plan.

You are probably not surprised at this point in this book to learn that the Endocannabinoid System (ECS) plays a role in modulating sleep.²⁶ And, turns out that cannabidiol activates this regulatory action of the ECS.

It is thought that CBD may act as a wake agent, actually inducing alertness.²⁷ At first it might sound like this is the opposite effect you would want to have if you wanted better sleep. However, the way it seems to work is to provide a more alert wake state, which in turn promotes a deeper and more restorative sleep state.

CBD oil is known to play an important role in modulating sleep. Many dog owners have found that their dog sleeps longer and more soundly with daily use of this natural supplement.



7. Cancer

Turns out, the Endocannabinoid System may also play a role in the development (and potential treatments) of cancer.²⁸ And, CBD specifically has been shown to potentially benefit cancer treatment in several different ways:

Tumor Shrinking Effects

Although still in the early stages of research, cannabidiol has shown some promise for its antitumorogenic properties (the fancy word for anti-tumor effect).²⁹ This has been shown by scientific studies looking at a variety of types of cancer, including (so far): lung cancer, breast cancer, leukemia, glioma (tumors in the brain or spine) and colon cancer.³⁰⁻³⁴

Alleviate Side Effects

In addition, for dogs undergoing traditional cancer treatments, cannabidiol may help alleviate some of the unfortunate side effects including pain, nausea, changes in appetite, restlessness, and general discomfort.

Boosted Immune System

Another indirect, but important property of cannabidiol has to do with the way that it interacts with the immune system.³⁵ By reducing oxidative stress, which can lead to tissue damage, CBD can support the body's natural healing power for those recovering from cancer treatment. In fact, the ECS plays such a vital role in maintaining immune health, some researchers have coined the term "Immunocannabinoid System" to describe the relationship.⁷

Enhance the Action of Chemotherapy

Finally, recent research has shown that CBD oil may, in fact, enhance the anti-tumor action of some chemotherapy treatments. As one study showed, in addition to having its own tumor shrinking properties, CBD may so effectively enhance the tumor shrinking mechanisms of radiotherapy that it may be possible to decrease the dosing of this treatment without decreased efficacy, thereby reducing the harmful and sometimes severe side effects of this treatment.³⁶

Another recent study demonstrated that mice with pancreatic cancer who were treated with CBD in addition to gemcitabine (a type of chemotherapy) had a threefold increase in survival rate over treatment with gemcitabine alone!³⁷

Organic CBD oil may be part of a veterinarian supervised plan of cancer treatment, whether by acting directly on the cancer itself, improving action of chemotherapy, boosting the immune system, or offering relief from symptoms that result from traditional cancer treatments.

8. Skin Problems

One of the most interesting aspects of the ECS is that it plays a vital role in skin health. It is implicated in critical aspects of the skin such as lipid production, skin cell growth, and the functioning of the sebaceous glands as well as hair follicles.³⁸ In fact, the ECS been identified by dermatologists as a promising potential therapeutic target for conditions such as psoriasis, eczema, acne, skin cancer and dermatitis.³⁹

When it comes to dogs, there are several skin conditions that can affect quality of life, and CBD oil may be a helpful and natural alternative to pharmaceutical treatment.

For example, allergic dermatitis is a condition that often develops into dry and patchy areas of itch skin. Common causes of dermatitis in dogs include flea bites, pollen, food allergies, or reactions to certain chemicals in shampoos or other products. If left untreated, your dog may scratch affected areas to the point that they become open wounds and potential sites of infection.

CBD oil has anti-inflammatory, anti-bacterial, and natural pain relieving properties in addition to promoting healthy skin functions.^{40,41} It can be taken orally by adding drops to food, directly to the tongue, or applied on the surface of the skin at the site of the problem.

As many dog owners are already aware, skin problems can also be caused from problems with digestion including food sensitivities and allergies. Read on to our next section to learn more about CBD and intestinal health if this applies to your canine companion.

It is worth noting that persistent skin problems can be a sign of a more serious underlying problem that may need medical attention. Always check with your vet if your pet's skin issues are acute or do not resolve within a few days.

Cannabidiol can provide welcome soothing relief to the dog with a variety of skin problems. In addition to addressing symptoms such as itchiness and inflammation, CBD oil actually promotes healthy skin via the ECS and its regulatory role in skin development.

9. Intestinal Health

Did you know that the intestines are jam-packed with endocannabinoid transmitters and receptors?⁸

That's right, the ECS actually plays a critical role in terms of maintaining gut function and overall health in several ways:

Gastrointestinal Motility

Gastrointestinal Motility is the medical way of saying how well the intestines are moving waste along the intestinal tract. Problems with GI motility can be wide ranging since the functions of the digestive system are complex and work together. And, it turns out that the ECS plays a vital role in regulating GI motility.⁴²

It does this both by radically reducing inflammation while also playing a role in triggering the muscles and enzymes critical for proper functioning of the digestive tract.^{43,44}

In fact, some researchers have gone so far as to suggest that IBS (among other disorders) may even be related to Clinical Endocannabinoid Deficiency (CECD).⁴⁵

CBD has been researched relative to these specific conditions related to GI motility:

- Irritable Bowel Syndrome ⁴⁶
- Constipation ⁴⁷
- Nausea ⁴⁸
- Appetite ⁴⁹

Read on to learn 2 more ways CBD has been shown to improve digestive health.



Intestinal Barrier

The intestinal barrier is a thin layer of tissue that lines the entire intestinal tract. It performs the work of the intestine by preventing unwanted waste from entering the blood stream while processing the much-needed nutrients from the food we eat. CBD has been shown to help regulate and even heal damaged tissue of the intestinal barrier.⁵⁰

The dysfunction of the intestinal barrier has been implicated in a variety of conditions, including:

- Irritable Bowel Syndrome (IBS)
- Gastrointestinal Reflux Disease (GERD)
- Food allergies
- Celiac Disease
- Gluten sensitivity

In fact, the role that CBD oil may play in helping to restore the intestinal barrier function is of particular note for owners with dogs that have food sensitivities and allergies.⁵¹ For those of us with dogs that require grain free dog food, or limited ingredient diets, this is really good news. In fact, many holistic vets will recommend CBD oil to help canines who seem to have sensitive stomachs to certain foods or ingredients.

The Brain Gut Axis

One of the big breakthroughs in research on the gut over the last few decades is the realization that gut health is deeply related with other systems, including the central nervous system, immune system and even mental health.⁵² The relationship between the gut and nervous system is known as the brain-gut axis.⁵³

Known as the enteric nervous system, it is designed to be able to communicate with the central nervous system, but also to act independently. In fact, there are about five times as many neurons in the enteric nervous system than in the entire spine! This has led some researchers to coin this system “The Second Brain.”⁵⁴

At this point in our article, you are probably not surprised to find out that the ECS plays a pivotal role in the gut-brain axis by taking an active role in regulating and facilitating the brain-gut axis. In fact, many of the neurons in the enteric nervous system are responsive to cannabinoids including CB1, vanilloid, and 5-HT3 receptors.⁵⁵

It turns out that using CBD oil to aid your dog's stomach problems may have further health benefits than you might have imagined. Perhaps that is why so many holistic vets recommend CBD oil as a natural preventative care product for their canine patients overall digestive health.

10. Reducing Other Medications

The table below shows just some of the rather worrying side effects that can come from extended use of many commonly prescribed veterinary medications. Many informed owners are wary about these negative impacts, and rightly so. In fact, many holistic veterinarians, indeed more and more traditional vets as well, are looking for ways to reduce the use of such medications when safe and natural alternatives are available.

A 2015 study reports that the number of adverse side effects from NSAIDs reported to the FDA's Center for Veterinary Medicine is higher than for any other drug currently prescribed for our pets. Of particular concern, as this study explains, is the possibility of renal damage and/or failure as a result of using NSAIDs for chronic conditions.⁵⁶ In fact, a 2013 study reviewed the results of 35 studies and 29 clinical trials that investigated the use of NSAIDs in dogs. They found that as many as 55% of the studies reported significant negative side effects of this class of drugs.⁵⁷

CBD oil, in some cases, can offer a solution to this problem. Recent research shows that cannabinoids work in cooperation with these pain relievers, potentially enhancing their effect.⁵⁸ This could mean lowering the amount of other medications, a major win for our furry friends.

Reducing the use of pharmaceutical medications with harmful side effects can improve quality of life as well as health outcomes in many cases. Talk to your vet about how [cannabidiol](#) may be a part of your dog's overall treatment and wellness plan.

SIDE EFFECTS OF COMMONLY PRESCRIBED MEDICATIONS FOR DOGS							
NSAIDS:							
Vomiting and Diarrhea	Ulcers	Intestinal Bleeding	Lethargy	Liver Failure	Kidney Failure	In Rare Cases, Death	
STERIODS:							
Increased Thirst, Hunger, Urination	Panting	Vomiting	Worsening of Infection	Decreased Skin Health	Urinary Tract Infections	Decreased Overall Immunity	Muscle Weakness
OPIOIDS:							
Constipation	Respiratory Problems	Confusion and Unease	Abnormal Pain Sensitivity	Overdose and Death			
ANTI-HISTAMINES:							
Vomiting	Diarrhea	Loss of appetite	Lethargy	Confusion	Irregular or Rapid Heartbeat	Hyperactivity	

©2018 lolahemp.com

HOW MUCH CBD SHOULD I GIVE MY DOG?

Here at [LolaHemp](#), we want our readers to be informed advocates for their dog's health. We asked our partner Dr. Maureen Kanana, D.V.M. for some dosing guidelines and she provided the data in the table below that we thought our readers would find useful.

It is important to note that the dosing information provided is calibrated to LolaHemp CBD oil for dogs. It may not apply to other brands since they can vary widely in terms of concentration. Here are a few more tips to keep in mind:

- **Start low and increase slowly.** This is the general rule of thumb with natural supplements and the same is true for CBD oil.
- **CBD oil is safe, even at larger doses.** Your vet may prescribe a much larger dose of CBD oil for specific conditions, depending on the situation with your individual dog and their health issues.
- **Always consult with your vet.** Sometimes CBD oil is so effective at providing relief that it might be masking a more serious problem that needs medical intervention. Better safe than sorry.
- **CBD oil can affect different dogs differently.** Just like many supplements, medications, and indeed even food, variations in individual dogs can create differences in metabolism.
- **CBD can react with other medications.** Again, check with your vet before administering CBD to your dog if they are taking prescription medicines for a medical condition.

LOLAHEMP DOSING GUIDELINES

Drop directly onto pet's tongue or add to meal.

CONDITION	FREQUENCY	DOSAGE
Arthritis & Joint Pain	2 X PER DAY	2 DROPS PER 10 LBS
General Anxiety, Stress & Depression	2 X PER DAY	2 DROPS PER 10 LBS
Phobias (fear of travel, noise & separation)	USE AS NEEDED	2 DROPS PER 10 LBS
Cancer Pain	2 X PER DAY	2 DROPS PER 10 LBS
Seizure	2 X PER DAY	2 DROPS PER 10 LBS
Inflammation (chronic)	2 X PER DAY	2 DROPS PER 10 LBS
Inflammation (acute)	USE AS NEEDED	2 DROPS PER 10 LBS
Aggressive Behavior	USE AS NEEDED	2 DROPS PER 10 LBS
Skin Problems (chronic)	2 X PER DAY	2 DROPS PER 10 LBS
Skin Problems (acute)	USE AS NEEDED	2 DROPS PER 10 LBS
Loss of Appetite	USE AS NEEDED	2 DROPS PER 10 LBS

15ML BOTTLE Monthly supply for pet **15 LBS & UNDER** if used daily.

30ML BOTTLE Monthly supply for pet **15 - 40 LBS** if used daily.

60ML BOTTLE Monthly supply for pet **40+ LBS** if used daily.

LolaHemp: QUALITY CBD OIL FOR DOGS

The market for CBD products is currently through the roof as more and more research is coming out demonstrating a myriad of health benefits without the high of medical marijuana or unwanted side effects of pharmaceutical medications. High demand can translate into conditions that are ripe for scams.

In fact, one recent study showed that many such products are often improperly labeled.⁵⁹ They may contain high amounts of THC (a big problem for dogs) or even no CBD at all. Worse, some manufacturers may use cheaper hemp that has been treated with pesticides. These contaminants can build up when the product is refined into hemp oil – definitely not something you want to give your beloved pet.

Here is the [LolaHemp](#) commitment to quality:

Organic Hemp

We use only organic, GMO free hemp in our CBD oil for dogs. We believe that only by starting with the best can we ensure the best finished product.

Batch Lab Testing

We provide third party testing on every single batch which you can view on our website. That is the LolaHemp commitment to giving your pet the best.

Real Full Spectrum Hemp Oil

Are you interested in a full spectrum oil so your pet can enjoy the additional health benefits of the “Entourage Effect?” So are we! Our CBD isn’t based on a chemical isolate - it is a whole plant extract for maximum relief.

Just for Dogs

It is important to give your furry friend hemp oil that has been formulated with dogs in mind, like LolaHemp. CBD oil made for people is very hard to accurately dose in the smaller amounts needed for our small companion animals. In addition, common flavorings used in CBD oil made for people can cause problems for dogs, such as peppermint oil.

Commitment to Animal Welfare

Here at LolaHemp, we donate one bottle of our organic hemp oil for dogs for every four sold to a rescue dog in need. Inspired by our own rescue dog and the huge impact on her quality of life that full spectrum CBD oil made for her, we wanted to be sure other dogs in our crowded animal shelters and foster care systems had the help they need. We know our product helps these lovable animals feel more comfortable, relaxed, and healthy while they await their fur-ever homes.

OUR STORY - HOW WE STARTED LolaHemp

At [LolaHemp](#), we are committed to providing a quality product because we were inspired to get into this business because of our own little girl – Lola the Chihuahua.

My mother and I adopted Lola, a 6 year old chihuahua, from a local organization in 2012. We didn't know it then, but she would change our lives in more ways than one. Not long after bringing her home, we learned that she was suffering from debilitating anxiety related to both car and thunderstorm phobias.

Desperate to find a solution for her that wasn't a pharmaceutical grade tranquilizer, we did our research. We finally found the solution that worked for her – CBD oil. Disappointed with the quality in terms of the full spectrum CBD oil available just for dogs, we founded LolaHemp to fill the niche.

We firmly believe in our product and want to get it into the hands of every pet owner that has a dog that can benefit! Lola also inspired us to get more involved in the animal rescue community. We founded Lolawawa's Pet Boutique and raised funds to support various shelter, foster, and rescue groups who work tirelessly to find forever homes for loving animals in need.

LolaHemp continues this effort by donating 1 bottle of our organic CBD hemp oil to one of our participating rescue organizations for every 4 bottles sold. Helping these abandoned animals with the calming and healing benefits of CBD oil during this stressful time of transition in their lives is our way of helping our furry friends in need find their fur-ever homes.

Your purchase helps to support our ongoing efforts to help dogs looking for a second chance. Thank you for your support!

Joey DiFrancesco

CONCLUSION: IS CBD OIL GOOD FOR DOGS?

As we have explored in this article, there are many researched backed benefits of CBD oil for dogs. CBD oil made from hemp is safe for your pooch, and in some cases, may even be safer than some commonly prescribed veterinary medications.

This natural cannabinoid has properties that can help with specific issues such as pain, anxiety, skin disorders, and sleep (among others!). Cannabidiol works with the body's Endocannabinoid System and can also be used to promote balance across a wide variety of biological processes, even in healthy dogs.

Finally, it is important that you purchase CBD hemp oil that is formulated and dosed with dogs in mind. Look for organic sourcing, third party batch testing, and a demonstrated commitment to animal welfare that goes above and beyond, such as [LolaHemp!](https://lolahemp.com)

CBD FOR DOGS AT A GLANCE:

- ✓ Like people, dogs have an endocannabinoid system. 
- ✓ Consult with your veterinarian to avoid misdiagnosis and drug interactions. 
- ✓ Research has shown Cannabidiol has a better safety profile than NSAIDs and opioids. 
- ✓ Holistic veterinarians tend to be more aware of the safe use of CBD in clinical practice. 
- ✓ Studies on dogs are limited. 
- ✓ Research on various health benefits of CBD is extensive on tissues, lab animals, and people. 
- ✓ Purchase CBD oil made specifically for dogs to avoid complications.

©2018 lolahemp.com

LOLAHEMP.COM

WORKS CITED

1. Jung K-M, Piomelli D. Cannabinoids and Endocannabinoids. *Neuroscience in the 21st Century*. 2015;1-31. doi:10.1007/978-1-4614-6434-1_136-1
2. Kerstin Iffland FG. An Update on Safety and Side Effects of Cannabidiol: A Review of Clinical Data and Relevant Animal Studies. *Cannabis and Cannabinoid Research*. 2017;2(1):139.
3. Bartner LR, McGrath S, Rao S, Hyatt LK, Wittenburg LA. Pharmacokinetics of cannabidiol administered by 3 delivery methods at 2 different dosages to healthy dogs. *Can J Vet Res*. 2018 Jul;82(3):178-183.
4. Di Marzo V, Bifulco M, De Petrocellis L. The endocannabinoid system and its therapeutic exploitation. *Nat Rev Drug Discov*. 2004;3(9):771.
5. Shenglong Zou UK. Cannabinoid Receptors and the Endocannabinoid System: Signaling and Function in the Central Nervous System. *Int J Mol Sci*. 2018;19(3). doi:10.3390/ijms19030833
6. Kupczyk P, Reich A, Szepietowski JC. Cannabinoid system in the skin - a possible target for future therapies in dermatology. *Experimental Dermatology*. 2009;18(8):669-679. doi:10.1111/j.1600-0625.2009.00923.x
7. Klein TW, Newton C, Larsen K, et al. The cannabinoid system and immune modulation. *Journal of Leukocyte Biology*. 2003;74(4):486-496. doi:10.1189/jlb.0303101
8. Izzo AA, Coutts AA. Cannabinoids and the Digestive Tract. *Handbook of Experimental Pharmacology*:573-598. doi:10.1007/3-540-26573-2_19
9. McPARTLAND JM, Agraval J, Gleeson D, Heasman K, Glass M. Cannabinoid receptors in invertebrates. *Journal of Evolutionary Biology*. 2006;19(2):366-373. doi:10.1111/j.1420-9101.2005.01028.x
10. Ben-Shabat S, Fride E, Sheskin T, et al. An entourage effect: inactive endogenous fatty acid glycerol esters enhance 2-arachidonoyl-glycerol cannabinoid activity. *Eur J Pharmacol*. 1998;353(1):23-31.
11. Russo EB. Taming THC: potential cannabis synergy and phytocannabinoid-terpenoid entourage effects. *Br J Pharmacol*. 2011;163(7):1344-1364.
12. Costa B, Trovato AE, Comelli F, Giagnoni G, Colleoni M. The non-psychoactive cannabis constituent cannabidiol is an orally effective therapeutic agent in rat chronic inflammatory and neuropathic pain. *Eur J Pharmacol*. 2007;556(1-3):75-83.
13. Ward SJ, McAllister SD, Kawamura R, Murase R, Neelakantan H, Walker EA. Cannabidiol inhibits paclitaxel-induced neuropathic pain through 5-HT1A receptors without diminishing nervous

system function or chemotherapy efficacy. *British Journal of Pharmacology*. 2014;171(3):636-645. doi:10.1111/bph.12439

14. Russo EB. Cannabinoids in the management of difficult to treat pain. *Ther Clin Risk Manag*. 2008;4(1):245-259.
15. Burstein S. Cannabidiol (CBD) and its analogs: a review of their effects on inflammation. *Bioorg Med Chem*. 2015;23(7):1377-1385.
16. Gamble L-J, Boesch JM, Frye CW, et al. Pharmacokinetics, Safety, and Clinical Efficacy of Cannabidiol Treatment in Osteoarthritic Dogs. *Front Vet Sci*. 2018;5:165.
17. La Porta C, Bura SA, Negrete R, Maldonado R. Involvement of the endocannabinoid system in osteoarthritis pain. *Eur J Neurosci*. 2014;39(3):485-500.
18. Philpott HT, O'Brien M, McDougall JJ. Attenuation of early phase inflammation by cannabidiol prevents pain and nerve damage in rat osteoarthritis. *Pain*. 2017;158(12):2442-2451.
19. Blessing EM, Steenkamp MM, Manzanares J, Marmar CR. Cannabidiol as a Potential Treatment for Anxiety Disorders. *Neurotherapeutics*. 2015;12(4):825-836.
20. Aggression. ASPCA. <https://www.aspc.org/pet-care/dog-care/common-dog-behavior-issues/aggression>. Accessed May 4, 2019.
21. Bergamaschi MM, Queiroz RHC, Chagas MHN, et al. Cannabidiol reduces the anxiety induced by simulated public speaking in treatment-naïve social phobia patients. *Neuropsychopharmacology*. 2011;36(6):1219-1226.
22. Guimarães FS, Chiaretti TM, Graeff FG, Zuardi AW. Antianxiety effect of cannabidiol in the elevated plus-maze. *Psychopharmacology*. 1990;100(4):558-559.
23. Crippa JAS, Derenusson GN, Ferrari TB, et al. Neural basis of anxiolytic effects of cannabidiol (CBD) in generalized social anxiety disorder: a preliminary report. *J Psychopharmacol*. 2011;25(1):121-130.
24. Bitencourt RM, Pamplona FA, Takahashi RN. Facilitation of contextual fear memory extinction and anti-anxiogenic effects of AM404 and cannabidiol in conditioned rats. *Eur Neuropsychopharmacol*. 2008;18(12):849-859.
25. Lee JLC, Bertoglio LJ, Guimarães FS, Stevenson CW. Cannabidiol regulation of emotion and emotional memory processing: relevance for treating anxiety-related and substance abuse disorders. *Br J Pharmacol*. 2017;174(19):3242-3256.
26. Murillo-Rodriguez E, Poot-Ake A, Arias-Carrion O, Pacheco-Pantoja E, Fuente-Ortegon A de la,

Arankowsky-Sandoval G. The emerging role of the endocannabinoid system in the sleep-wake cycle modulation. *Cent Nerv Syst Agents Med Chem*. 2011;11(3):189-196.

27. Murillo-Rodríguez E, Millán-Aldaco D, Palomero-Rivero M, Mechoulam R, Drucker-Colín R. Cannabidiol, a constituent of Cannabis sativa, modulates sleep in rats. *FEBS Lett*. 2006;580(18):4337-4345.
28. Pisanti S, Picardi P, D'Alessandro A, Laezza C, Bifulco M. The endocannabinoid signaling system in cancer. *Trends in Pharmacological Sciences*. 2013;34(5):273-282. doi:10.1016/j.tips.2013.03.003
29. Massi P, Solinas M, Cinquina V, Parolaro D. Cannabidiol as potential anticancer drug. *British Journal of Clinical Pharmacology*. 2013;75(2):303-312. doi:10.1111/j.1365-2125.2012.04298.x
30. Ramer R, Bublitz K, Freimuth N, et al. Cannabidiol inhibits lung cancer cell invasion and metastasis via intercellular adhesion molecule-1. *FASEB J*. 2012;26(4):1535-1548.
31. Shrivastava A, Kuzontkoski PM, Groopman JE, Prasad A. Cannabidiol Induces Programmed Cell Death in Breast Cancer Cells by Coordinating the Cross-talk between Apoptosis and Autophagy. *Molecular Cancer Therapeutics*. 2011;10(7):1161-1172. doi:10.1158/1535-7163.mct-10-1100
32. McKallip RJ. Cannabidiol-Induced Apoptosis in Human Leukemia Cells: A Novel Role of Cannabidiol in the Regulation of p22phox and Nox4 Expression. *Molecular Pharmacology*. 2006;70(3):897-908. doi:10.1124/mol.106.023937
33. Massi P, Vaccani A, Ceruti S, Colombo A, Abbracchio MP, Parolaro D. Antitumor effects of cannabidiol, a nonpsychoactive cannabinoid, on human glioma cell lines. *J Pharmacol Exp Ther*. 2004;308(3):838-845.
34. Aviello G, Romano B, Borrelli F, et al. Chemopreventive effect of the non-psychoactive phytocannabinoid cannabidiol on experimental colon cancer. *J Mol Med*. 2012;90(8):925-934.
35. Booz GW. Cannabidiol as an emergent therapeutic strategy for lessening the impact of inflammation on oxidative stress. *Free Radic Biol Med*. 2011;51(5):1054-1061.
36. Yasmin-Karim S, Moreau M, Mueller R, et al. Enhancing the Therapeutic Efficacy of Cancer Treatment With Cannabinoids. *Front Oncol*. 2018;8:114.
37. Ferro R, Adamska A, Lattanzio R, et al. GPR55 signalling promotes proliferation of pancreatic cancer cells and tumour growth in mice, and its inhibition increases effects of gemcitabine. *Oncogene*. 2018;37(49):6368-6382.
38. Bíró T, Tóth BI, Haskó G, Paus R, Pacher P. The endocannabinoid system of the skin in health and disease: novel perspectives and therapeutic opportunities. *Trends Pharmacol Sci*. 2009;30(8):411-420.

39. Río CD, Millán E, García V, Appendino G, DeMesa J, Muñoz E. The endocannabinoid system of the skin. A potential approach for the treatment of skin disorders. *Biochem Pharmacol.* 2018;157:122-133.
40. van Klingeren B, ten Ham M. Antibacterial activity of Δ^9 -tetrahydrocannabinol and cannabidiol. *Antonie van Leeuwenhoek.* 1976;42(1-2):9-12. doi:10.1007/bf00399444
41. Petrosino S, Verde R, Vaia M, Allarà M, Iuvone T, Di Marzo V. Anti-inflammatory Properties of Cannabidiol, a Nonpsychotropic Cannabinoid, in Experimental Allergic Contact Dermatitis. *J Pharmacol Exp Ther.* 2018;365(3):652-663.
42. de Filippis D, Iuvone T, d'amico A, et al. Effect of cannabidiol on sepsis-induced motility disturbances in mice: involvement of CB receptors and fatty acid amide hydrolase. *Neurogastroenterol Motil.* 2008;20(8):919-927.
43. De Filippis D, Esposito G, Cirillo C, et al. Cannabidiol reduces intestinal inflammation through the control of neuroimmune axis. *PLoS One.* 2011;6(12):e28159.
44. Hornby PJ, Prouty SM. Involvement of cannabinoid receptors in gut motility and visceral perception. *Br J Pharmacol.* 2004;141(8):1335-1345.
45. Smith SC, Wagner MS. Clinical endocannabinoid deficiency (CECD) revisited: can this concept explain the therapeutic benefits of cannabis in migraine, fibromyalgia, irritable bowel syndrome and other treatment-resistant conditions? *Neuro Endocrinol Lett.* 2014;35(3):198-201.
46. Esposito G, Filippis DD, Cirillo C, et al. Cannabidiol in inflammatory bowel diseases: a brief overview. *Phytother Res.* 2013;27(5):633-636.
47. Bashashati M, Nasser Y, Keenan CM, et al. Inhibiting endocannabinoid biosynthesis: a novel approach to the treatment of constipation. *Br J Pharmacol.* 2015;172(12):3099-3111.
48. Parker LA, Mechoulam R, Schlievert C. Cannabidiol, a non-psychoactive component of cannabis and its synthetic dimethylheptyl homolog suppress nausea in an experimental model with rats. *Neuroreport.* 2002;13(5):567-570. doi:10.1097/00001756-200204160-00006
49. Fride E, Bregman T, Kirkham TC. Endocannabinoids and food intake: newborn suckling and appetite regulation in adulthood. *Exp Biol Med.* 2005;230(4):225-234.
50. Gigli S, Seguela L, Pesce M, et al. Cannabidiol restores intestinal barrier dysfunction and inhibits the apoptotic process induced by *Clostridium difficile* toxin A in Caco-2 cells. *United European Gastroenterology Journal.* 2017;5(8):1108-1115. doi:10.1177/2050640617698622
51. Heyman M. Gut barrier dysfunction in food allergy. *European Journal of Gastroenterology &*

52. Genton L, Kudsk KA. Interactions between the enteric nervous system and the immune system: role of neuropeptides and nutrition. *Am J Surg*. 2003;186(3):253-258.
53. Carabotti M, Scirocco A, Maselli MA, Severi C. The gut-brain axis: interactions between enteric microbiota, central and enteric nervous systems. *Ann Gastroenterol Hepatol*. 2015;28(2):203-209.
54. Gershon MD. The Enteric Nervous System: A Second Brain. *Hospital Practice*. 1999;34(7):31-52. doi:10.3810/hp.1999.07.153
55. Duncan M, Davison JS, Sharkey KA. Review article: endocannabinoids and their receptors in the enteric nervous system. *Aliment Pharmacol Ther*. 2005;22(8):667-683.
56. Lascelles BDX, McFarland JM, Swann H. Guidelines for safe and effective use of NSAIDs in dogs. *Vet Ther*. 2005;6(3):237-251.
57. Monteiro-Steagall BP, Steagall PVM, Lascelles BDX. Systematic review of nonsteroidal anti-inflammatory drug-induced adverse effects in dogs. *J Vet Intern Med*. 2013;27(5):1011-1019.
58. Vanegas H, Vazquez E, Tortorici V. NSAIDs, Opioids, Cannabinoids and the Control of Pain by the Central Nervous System. *Pharmaceuticals*. 2010;3(5):1335-1347.
59. Bonn-Miller MO, Loflin MJE, Thomas BF, Marcu JP, Hyke T, Vandrey R. Labeling Accuracy of Cannabidiol Extracts Sold Online. *JAMA*. 2017;318(17):1708-1709.