

What is the difference between THC and CBD?

From the desk of....Valecia Dirck..Admin · June 8, 2017...Cancer Sucks (facebook group)...
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What is the difference between THC and CBD? Please take time to look through posts. You can utilize the search function or click the magnifying glass to search. Type "CBD" and every article that has been posted or mentions CBD in my commentary will pop up in date order from today back to August 2016. Utilize the search function to research. Search key terms like nutrition, colloidal silver, fucoidian, sulfur salts, gold, black cumin, shittake mushrooms, etc... I only post relevant information that is valid, reliable, and predictable. I have spent countless hours researching disease states and reviewing statistical analysis in all types of medical literature. I have read and witnessed with my own 2 eyes countless testimonies. I don't always agree with every detail of an article but may choose to post because it contains mostly valid information. I generally try to find news and articles that align with my thinking. Once you know the truth and you understand truth, there is nothing that will stop you from communicating the truth to all mankind. I am grateful to my admins for their help. Ira Kaplan and Sandy Fox will be working behind the scenes to help advance the mission of Cancer Sucks! Please watch for their posts as some may be new and some may be from archives. I never dreamed I would have such an intelligent group of people as my audience. Your life matters here. Please like, share, and comment. I love what this group is growing to be and I hope you will share with others your victories and your struggles. May peace and healing be with us all.

Everything you ever wanted to know about CBD. While the country is still in a political debate over the legalization of medical marijuana, my pharmaceutical, chemistry brain is over here going crazy. Cannabidiol or CBD has incredible potential for healing a wide range of diseases:

Chronic Pain Cardiovascular Disease GI Disorders Alzheimer's
Cancer Drug Addiction Insomnia Parkinson's
Crohn's/IBD Anxiety/Depression Antibiotic Resistant Infections
Diabetes Multiple Sclerosis Neuropathic pain
Scar Tissue Schizophrenia Immune Support Migraines
Arthritis/RA PTSD Epilepsy/Seizures
Multiple Sclerosis Asthma

This is not an all inclusive list. There are over 700 documented uses and applications for CBD and THC. CBD is not illegal and never has been. The reason it is so 'Tabu' in some states is because CBD comes from the marijuana plant which contains THC (Tetrahydrocannabinol). THC is the active ingredient in marijuana that makes you high and the ingredient that is so heavily regulated by the DEA. THC levels greater than 0.3% is illegal still in 25 states. Theoretically, if science could just isolate out the CBD then whammo bammo, problem solved. Great News, science has already isolated out the CBD. Politicians should really stay out of the medical field because they don't have a clue and here's why. There are 2 plants that have the cannabinoid CBD, marijuana and hemp. The hemp plant does not normally contain THC. Some strains have been hybridized by growers but the THC limit for hemp plants is 0.3% and that is why some states grow hemp yet medical marijuana still remains illegal. Hemp is used for many industrial and textile purposes. Marijuana and Hemp also contain other cannabinoids. There are at least 113 different cannabinoids isolated from cannabis, exhibiting varied effects. While it may seem we know a lot about cannabinoids, the estimated twenty thousand scientific articles have just begun to shed light on the subject. Large gaps likely exist in our current understanding, and the complexity of interactions between various cannabinoids, cell types, systems and individual organisms challenges scientists to think about physiology and health in new ways. The following brief overview summarizes what we do know...

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Cannabinoid receptors are present throughout the body, embedded in cell membranes, and are believed to be more numerous than any other receptor system. When cannabinoid receptors are stimulated, a variety of physiologic processes ensue. Researchers have identified two cannabinoid receptors: CB1, predominantly present in the nervous system, connective tissues, gonads, glands, and organs; and CB2, predominantly found in the immune system and its associated structures. Many tissues contain both CB1 and CB2 receptors, each linked to a different action. Researchers speculate there may be a third cannabinoid receptor waiting to be discovered...

Endocannabinoids are the substances our bodies naturally make to stimulate these receptors. The two most well understood of these molecules are called anandamide and 2-arachidonoylglycerol (2-AG). They are synthesized on-demand from cell membrane arachidonic acid derivatives, have a local effect and short half-life before being degraded by the enzymes fatty acid amide hydrolase (FAAH) and monoacylglycerol lipase (MAGL).

Phytocannabinoids are plant substances that stimulate cannabinoid receptors. Delta-9-tetrahydrocannabinol, or THC, is the most psychoactive and certainly the most famous of these substances, but other cannabinoids such as cannabidiol (CBD) and cannabinol (CBN) are gaining the interest of researchers due to a variety of healing properties. Most phytocannabinoids have been isolated from cannabis sativa, but other medical herbs, such as echinacea purpurea, have been found to contain non-psychoactive cannabinoids as well. Interestingly, the cannabis plant also uses THC and other cannabinoids to promote its own health and prevent disease. Cannabinoids have antioxidant properties that protect the leaves and flowering structures from ultraviolet radiation - cannabinoids neutralize the harmful free radicals generated by UV rays, protecting the cells. In humans, free radicals cause aging, cancer, and impaired healing. Antioxidants found in plants have long been promoted as natural supplements to prevent free radical harm.

Laboratories can also produce cannabinoids. Synthetic THC, marketed as dronabinol (Marinol), and nabilone (Cesamet), a THC analog, are both FDA approved drugs for the treatment of severe nausea and wasting syndrome. Some clinicians have found them helpful in the off-label treatment of chronic pain, migraine, and other serious conditions. Many other synthetic cannabinoids are used in animal research, and some have potency up to 600 times that of THC. We are literally just at the start on the long road of cannabis knowledge, which will take us to a deeper understanding of this astonishing plant, its varied uses and its manifold medical benefits. Clearly, the tides of cannabis perception are turning, and many people have overcome the stigma to explore the vast nutritional and medicinal benefits of cannabis. The scientific name for marijuana is Cannabis Sativa the scientific name for hemp is Cannabis Sativa. Both come from the same genus and species. It's not any different than looking at 2 different species of lilies or 2 different species of morning glories or 2 different species of tomato plants. In the animal world it would be the difference between a tree frog and a toad. Make Sense? They are the same but different. Cannabis sativa is an annual herbaceous plant in the Cannabis genus, a species of the Cannabaceae family. People have cultivated Cannabis sativa throughout recorded history as a source of industrial fibre, seed oil, food, recreation, religious and spiritual moods, and medicine. Each part of the plant is harvested differently, depending on the purpose of its use. The species was first classified by Carl Linnaeus in 1753. Many of the home remedies for harvesting and making CBD Oil are not the appropriate method for obtaining maximal benefit. Even the popular Rick Simpson Oil uses very inconsistent methods. If CBD were regulated by Good Manufacturing Practices, RSO would be under some serious scrutiny. There is no doubt that RSO saves lives or any other THC based oil for that matter but there is a difference in functions. CBD and THC do have overlapping functions that are the same. For example both are anti-emetics and used for nausea and vomiting, both are anti-proliferative and used for cancer, both are anti-epileptic and used for seizures, both modify pain receptors and used in pain management. How they differ in function is determined by their

potency. THC is naturally limited in potency due to its psychogenic effects. Hemp is NON-PSYCHOACTIVE: You absolutely CANNOT get 'high' or intoxicated by consuming CBD Hemp Oil or any whole, raw natural product from Industrial Hemp plants for that matter. Unlike "Medical Marijuana" it does not contain the psychoactive properties of THC. Industrial Hemp (Hemp) is not marijuana and will not get you 'high' and it does not require a medical license of any kind to authorize purchase. There are millions of CBD hemp oil consumers around the world and this number is rapidly rising with an increasing number of reports and studies showing a variety of benefits of CBD Hemp Oil.

I will be posting a series of studies and literature to help you understand the therapeutic value of CBD. Most studies talk about cannabis in the form of marijuana. It is safe to equate similar results to both forms of cannabis, marijuana and hemp regardless of which form was studied. I like good studies because I can be confident in treating you and you can be certain of the outcome...CANCER FREE, PAIN FREE, STRESS FREE, ANXIETY FREE, SLEEPING BETTER, EATING BETTER. Multiple studies are even better because that means the same study result occurs over and over again. I can convey validity and reliability and that's what I like because evidence based medicine will lead to new industry standards in natural medicine. There are so many things we look at when reviewing a study for statistical or clinical significance. Enough that it took 4 years to learn and I still don't know everything. Not all studies have significant results and unfortunately many studies are biased and underpowered. You can bet if you have me in your corner then you will know the truth and will be empowered to make confident decisions about your own care.

Here is the reason why CBD is not illegal. Regardless of quantity or potency, cannabis cannot induce a fatal overdose. According to a 2015 review by the World Health Organization there are no recorded cases of overdose fatalities attributed to cannabis and the estimated lethal dose for humans extrapolated from animal studies is so high that it cannot be achieved. This is precisely why CBD can be universally available to every man, woman, and child without regulation.

Here is why CBD is superior to THC. The potency of THC can reach a maximum of 32.2% concentration. The potency is obtained by superior growing techniques. Most growers can barely reach 25% concentrations. THC can never be any more than 32.2% concentration. So all these people who say on their labels or in their advertisements that they have concentrated and purified the THC at 70% are lying. That's marketing propaganda and they get to get away with it because natural medicine is not regulated by Good Manufacturing Practices like food and supplements are regulated. You can type a google search, "maximum concentration of THC", and just skim the articles and you will see for yourself that if I say it then it's verifiable! Now that you understand that marijuana is limited in its usefulness due to the psychogenic effect or the high and nootropic effect or head-change or body-change that you get from the THC. Moving onto CBD. CBD has the same anti-tumoral, anti-proliferative properties as THC except CBD is not limited in potency and concentration. CBD is grown at 99% concentrations. That is a 74% increase. Let's look at the math. $99 - 25 = 74$ so there you have it. Actually CBD has a lot more functions and properties than THC and is superior therapeutically overall. However, don't be misguided. I do believe THC and CBD are equally useful for treating many common conditions including, pain, nausea/vomiting, epilepsy/seizures and other nervous system disorders. Please be sure to review the front page photo for a more complete, comparative list of functions of THC/CBD. I will reference that chart frequently throughout future discussions. Below you will find the major functions for CBD with explanation.

Anti-Proliferative: CBD stops cancer cells proliferating or reproducing. Many of its effects listed below stem from its ability to activate PPAR receptors. CBD also exerts an anti-cancer effect by activating PPARs [peroxisome proliferator activated receptors] that are situated on the

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surface of the cell's nucleus. Activation of the receptor known as PPAR-gamma has an anti-proliferative effect as well as an ability to induce tumor regression in human lung cancer cell lines.

Anti-Angiogenic: cannabidiol can stop cancer cells in another way, by preventing malignant tumors from forming the blood vessels they need to grow. The process of blood vessel creation is called angiogenesis, and since cannabidiol halts this, it is deemed anti-angiogenic.

Anti-Metastatic: Metastasis is the process by which a cancer can spread around the body, especially to other organs which have no direct contact with it. Cannabidiol prevents cancer from spreading to other organs, so it is called anti-metastatic.

Anti-Mitogenic: There is a 3rd way cannabidiol prevents cancer. It hinders or stops cell division (mitogenesis). One of the hallmarks of cancer is its unbridled growth, and amazingly, CBD actually stops the cancer spreading out of control by preventing the cancer cell from dividing and reproducing, and thus is deemed anti-mitogenic. **Pro-Apoptotic:** Apoptosis is the medical word for programmed cell death. It's an important part of every healthy and functional cell that it contains a program for apoptosis, so it can commit suicide or let itself die if it is compromised. Cancer cells characteristically do not undergo apoptosis, however cannabidiol is pro-apoptotic and actually induces cancer cells to die. Incredible! **Anti-Psychotic:** In addition to showing impressive potential for curing cancer, cannabidiol also exhibits anti-psychotic properties, which means it could help heal a whole host of mental illnesses.

CBD's enzyme-mediated activation of the PPAR-alpha receptor may have antipsychotic effects. Polymorphisms or mutations in the gene encoding PPAR-alpha can result in deficient PPAR-alpha signaling, which has been linked to schizophrenia. PPAR-alpha activation is both anti-inflammatory and can decrease dopamine release, thereby minimizing schizophrenic symptoms. **Neuro-Protective:** Neurodegenerative diseases (such as Alzheimer's and Parkinson's) are another set of horrible diseases which are claiming the lives of more and more people. Fortunately, CBD shows potential for healing these too. Again, the issue comes back to the PPAR-activation. PPAR-gamma activation degrades amyloid-beta plaque, a key molecule linked to the development of Alzheimer's disease. This is one of the reasons why cannabidiol, a PPAR-gamma agonist, may be a useful remedy for Alzheimer's patients. As an aside, PPAR receptors also regulate genes that are involved in energy homeostasis, lipid uptake, insulin sensitivity, and other metabolic functions. Diabetics, accordingly, may benefit from a CBD-rich treatment regimen.

Anti-Inflammatory: Inflammatory diseases are another massive set of diseases that haunt the populations in developed countries, especially the US. Many nutritional experts and doctors have highlighted the strong connection between inflammation and disease. Inflammation is a "hot" topic in medicine. It appears connected to almost every known chronic disease — from heart disease to cancer, diabetes to obesity, autism to dementia, and even depression. Other inflammatory diseases such as allergies, asthma, arthritis, and autoimmune disease are increasing at dramatic rates. If you control inflammation, you control disease! "[cannabidiol decreases] the production and release of pro-inflammatory cytokines and decrease the activation of the LPS-induced STAT1 transcription factor, a key factor in the pro-inflammatory process. CBD, however, also reduces the activity of the NF-kappaB pathway, a primary pathway regulating pro-inflammatory genes, and up-regulates the activation of the STAT3 transcription factor, which induces anti-inflammatory events (Kozela, et al., 2010)."

Analgesic: Analgesic means pain-relieving. CBD is analgesic and is thus indicated for those suffering from inflammatory disease or conditions with chronic pain. **Anti-Convulsant:** CBD has become famous for its ability to stop seizures and treat diseases such as epilepsy. The overwhelming consensus of case studies, surveys and pre-clinical animal studies shows that cannabidiol is a powerful anti-convulsant.

Pro-Anxiolytic: Finally, CBD also helps calm the nerves and reduce or eliminate anxiety, and

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thus is anti-anxiety or medically speaking pro-anxiolytic. The reason why CBD has this effect is probably due to its activation of the adenosine receptor. Adenosine receptors play major roles in brain and cardiovascular function (regulating oxygen intake and blood flow), as well as having anti-inflammatory effects throughout the body, which ties in with CBD's anti-inflammatory properties. Anti-oxidant Cannabinoids have antioxidant properties that protect the leaves and flowering structures from ultraviolet radiation - cannabinoids neutralize the harmful free radicals generated by UV rays, protecting the cells. In humans, free radicals cause aging, cancer, and impaired healing. Antioxidants found in plants have long been promoted as natural supplements to prevent free radical harm.

The process of making CBD Hemp Oil is actually quite costly so cheap products are a sign of impure products. CBD is isolated via a CO2 extraction process eliminating any possibility of impurities or competing cannabinoids. You want to use a manufacturer that invests in lab analysis for potency. My CBD products are third party lab tested. All products are accompanied by a certificate of analysis to ensure quality. All my CBD products are made from 99.6% pure, natural ingredients and are NON-GMO. Products must be consistent to establish predictable patterns with repeat use and administration. You absolutely can not get high or intoxicated in any way by consuming CBD Hemp Oil. It does not contain the psychoactive properties of Medical Marijuana (THC). CBD blocks the effect of THC in the nervous system. Remember they are competing cannabinoids.

To order you must be a member of our Cancer Sucks group. Please message me on Facebook or text me at 918-277-1105 if you have questions. My husband and I are in the process of opening a natural cancer treatment and general health and wellness clinic. We are currently negotiating some private label products in addition to building the ultimate supplement one stop shop. What I like about private label is I get to use the industry standards that already exist and add my own formulation with advanced delivery technologies for better bioavailability and absorption. We will be a small, educational facility for natural medicine not just for cancer but heart disease, lyme disease, pain management, nutritional management, immune support, infectious disease, weight loss and so many more. We have decided on our core products and now moving into determining packaging for our products. We will carry over 100 products! WOW! When I say God is on the move in a BIG way, I mean to say God is on the move in a God way!!!! Next week the walls are going up in the store, hooray! All that being said, I have started negotiation on our own CO2 extractor so we don't have to be dependent on 2 suppliers. More on that after grand opening. We have a very busy year ahead of us and I will be sharing more exciting news in the weeks and months to come. Until then, I am finally in a position to really make a difference here. I have been diligently working behind the scenes and my whole purpose is to make natural medicine accessible and affordable for all. GOD is good and he is the wlt takes very expensive, precision equipment and technology to create this kind of product. We have a very compassionate supplier that produces QUALITY products. I have a much broader vision in pain management It will have it's application in advancing cancer treatment, including skin cancer with CBD by utilizing alternative routes of administration. What is my motto? Route of Administration Matters! Very Exciting things are happening and this group, Cancer Sucks and all of it's members are the foundation and reason this is happening!!!

P.S. Feel free to share this knowledge to everyone! Knowledge is Power and empowering others to heal themselves is most rewarding :)
Sincerely, Dr. Valecia M. Dirck Pharm.D., Hugs, Love, and Prayers Always

PS from FactorReady.com Valecia may be reached for ail CBD mail orders at: Natural Health Store-6234 S.123rd W. Ave-Sapulpa, OK 74066. Normal dosage she advocates for her pure CBD oils for cancer is 500mg (10 drops under tongue) daily for early onset and maintenance. Therapy involves 1000mg (Stage 3),1500mg (Stage 4) with approx. 6-9 mos. Prognosis time.

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