



Cannabinoid receptors are present throughout the body. There are potentially more cannabinoid receptors than any other receptor system

CB1

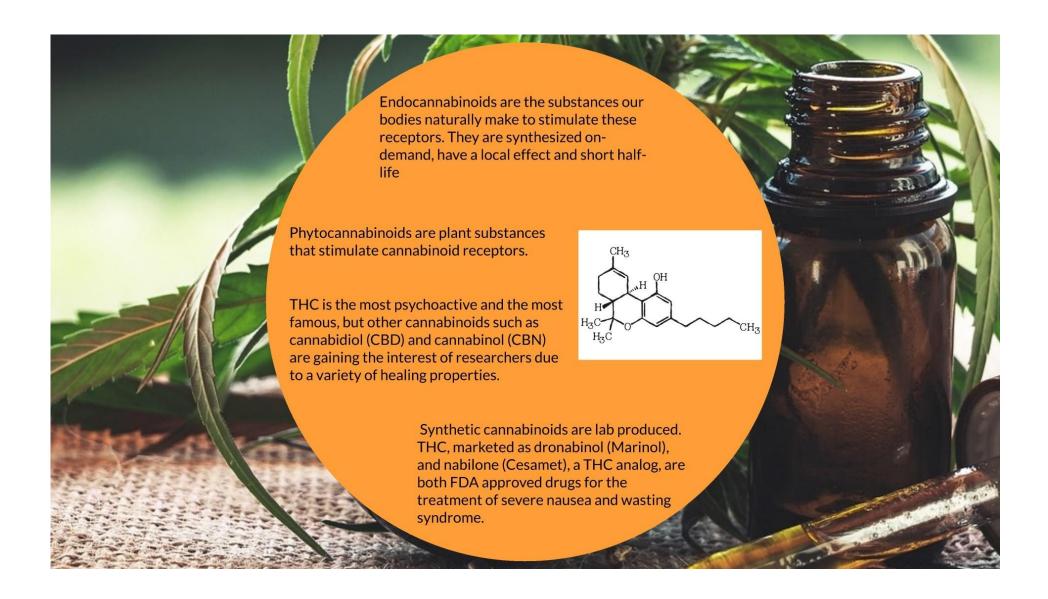


CB2

is predominantly found in the immune system and its associated structures.

Is predominantly present in the nervous system, connective tissues, gonads, glands, and organs. The amygdala has a lot of receptors. This area of the brain regulates anxiety and the fight or flight response.









The mechanism of action is still being researched
There are widespread cannabinoid receptors in the brain and
peripheral tissues known as the endocannabinoid system. The
endocannabinoid system regulates metabolism, appetite, blood
pressure, glycemic control, immune response, and sense of
reward.

Cannabis is administered orally, sublingually, or topically. It can also be smoked, mixed into foods, and brewed as a tea.



Typically cannabis is smoked, which has the advantage of rapid onset and easy titration, as well as allows it to be delivered to the brain and circulation rapidly.

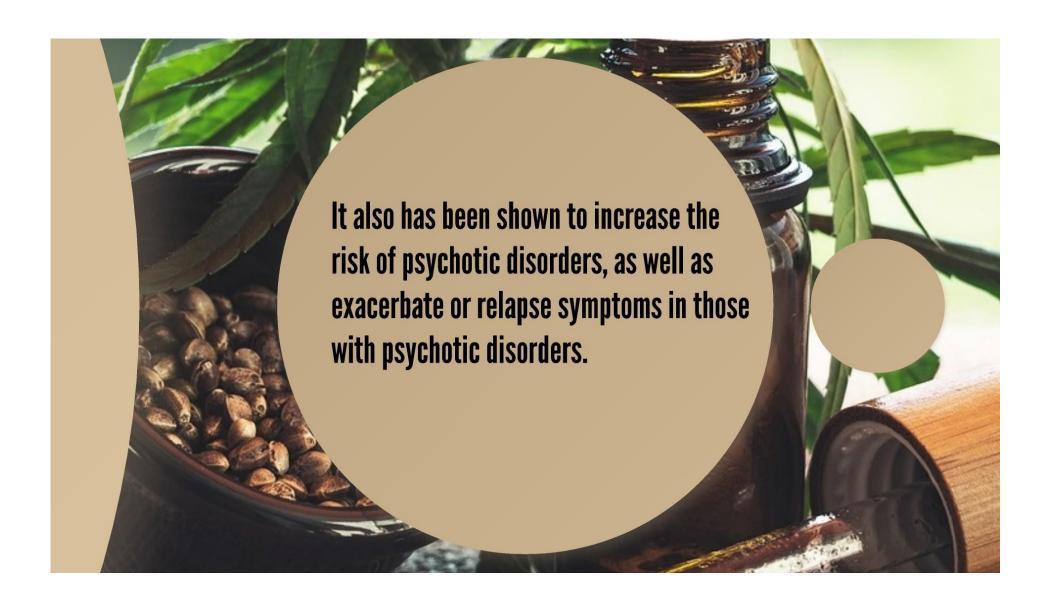


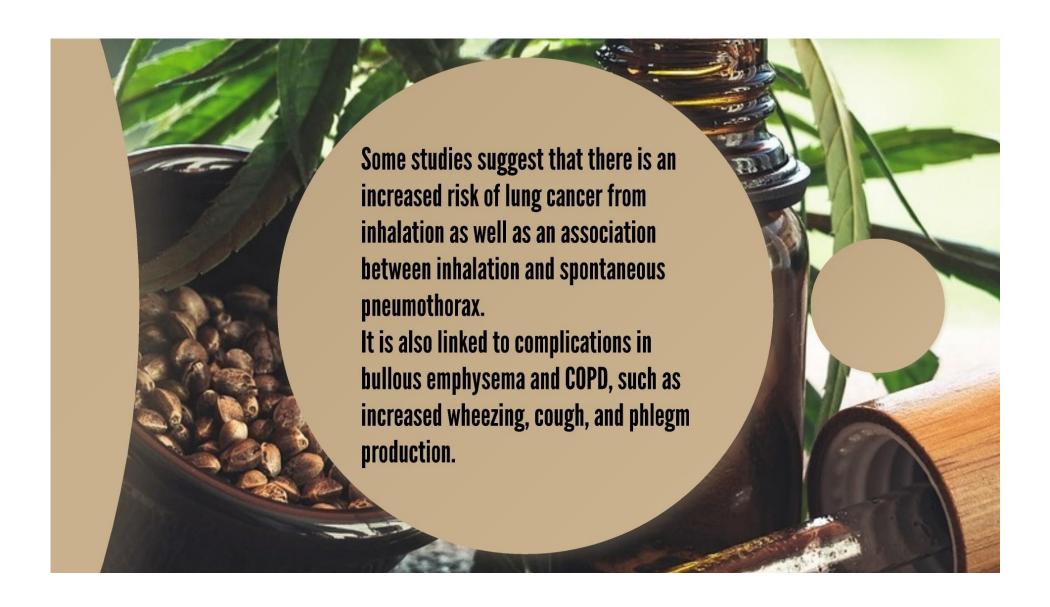


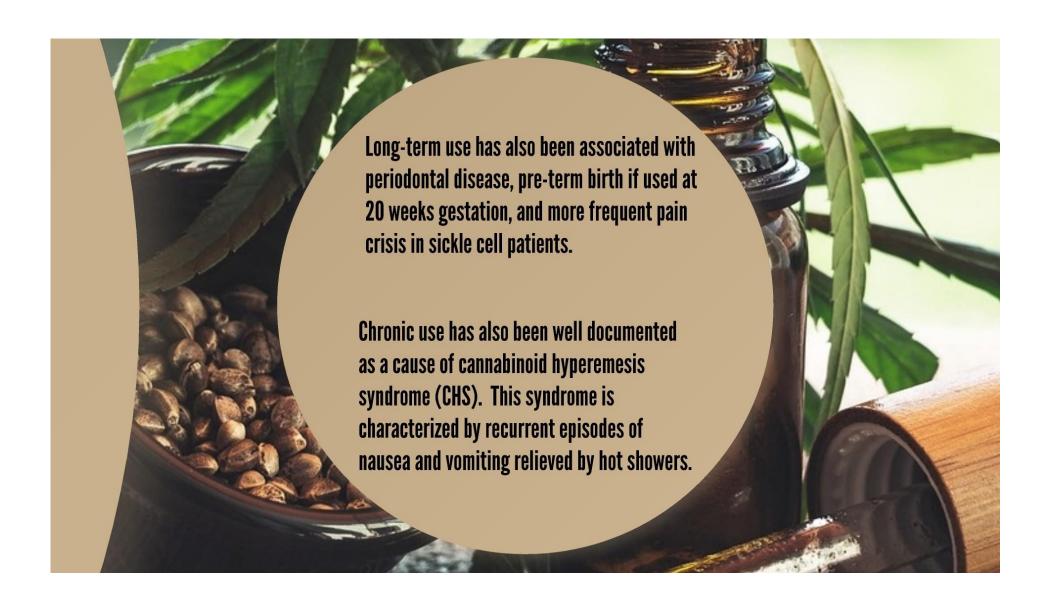
When ingested orally, the pharmacokinetics vary greatly, and the onset of action is delayed with maximum blood levels being reached up to six hours post ingestion and with a half-life of up to 20-30 hours.

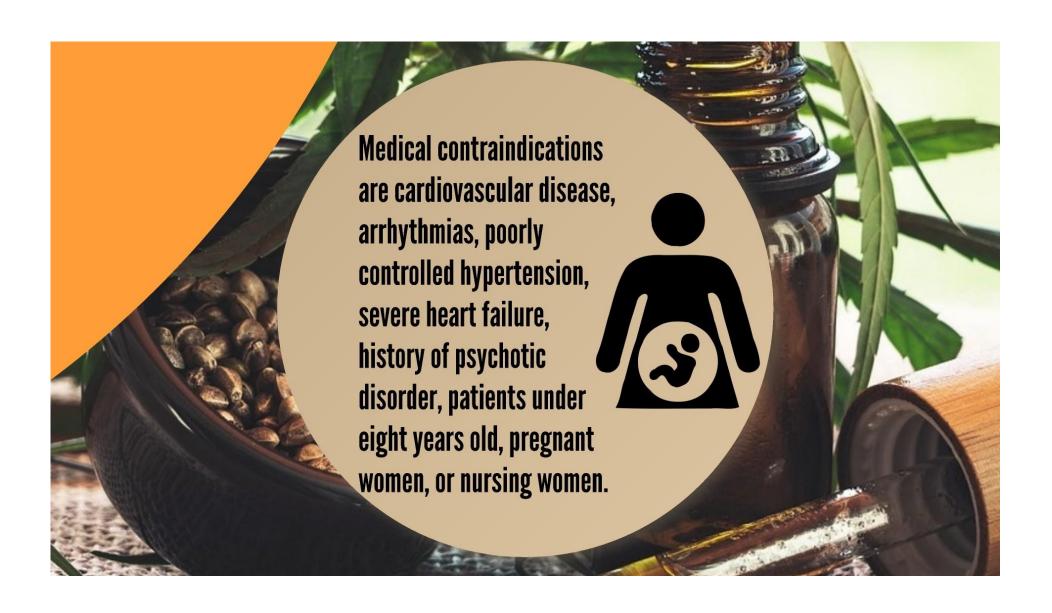
The topical route, has been used for arthritic pain with varying success.

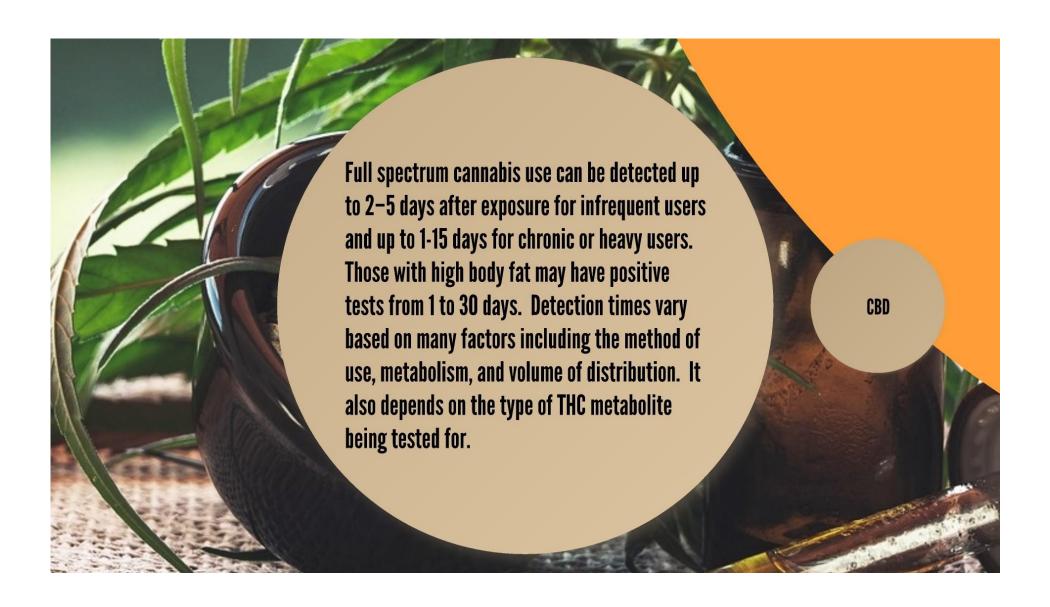










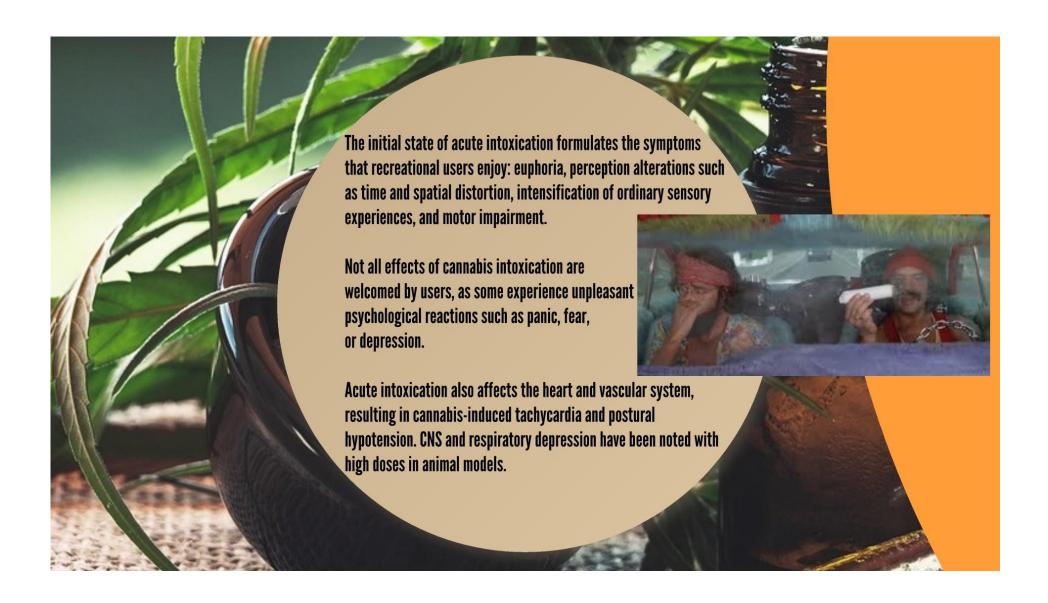


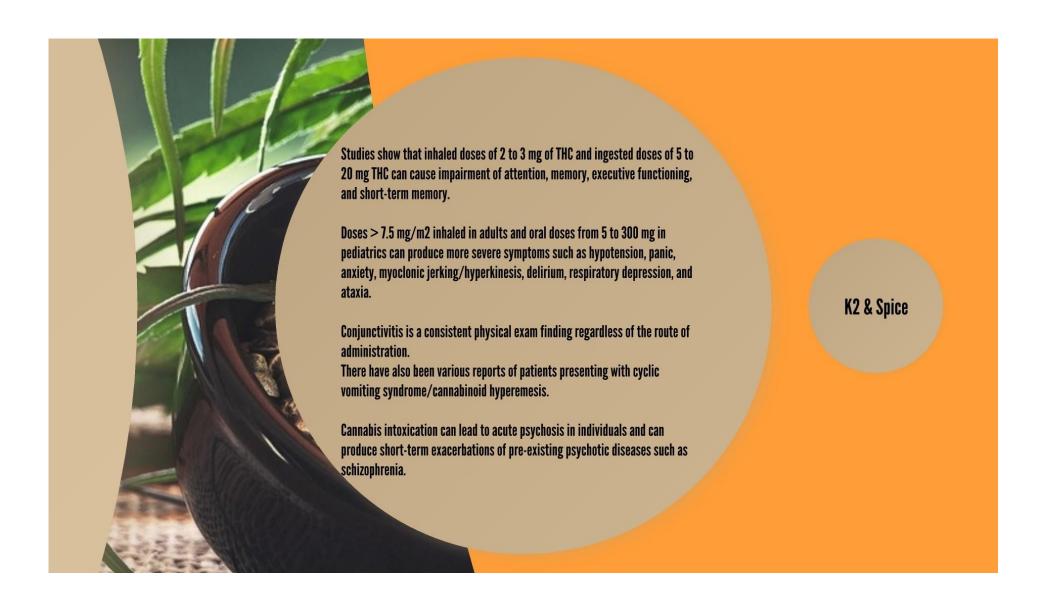


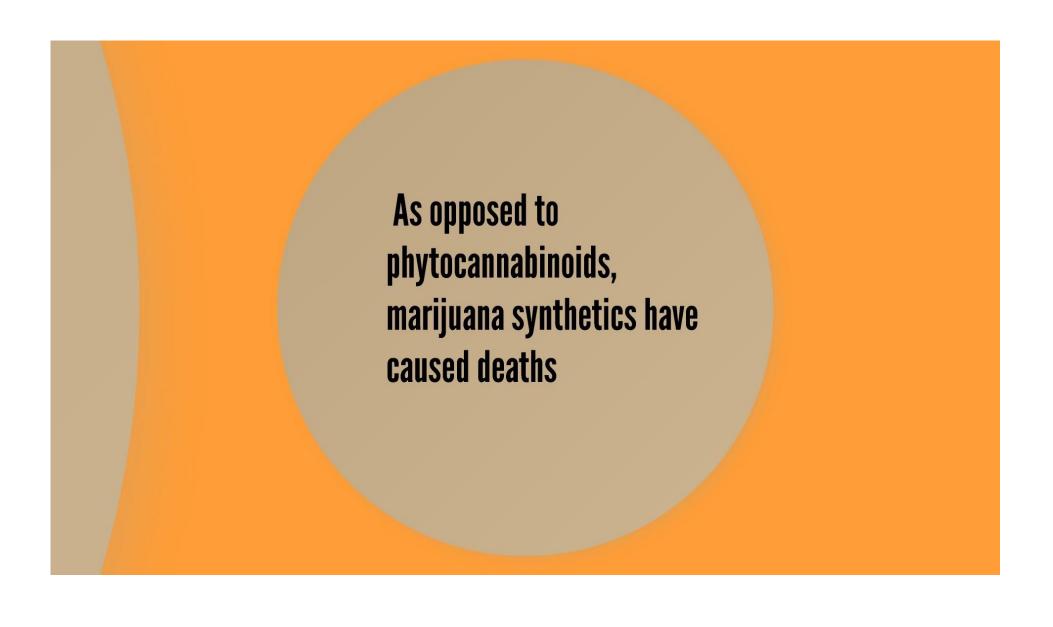


The most basic form of CBD is an isolate.
Isolates contain nothing except pure, isolated CBD.
There are no other cannabinoids, terpenes, or flavonoids.



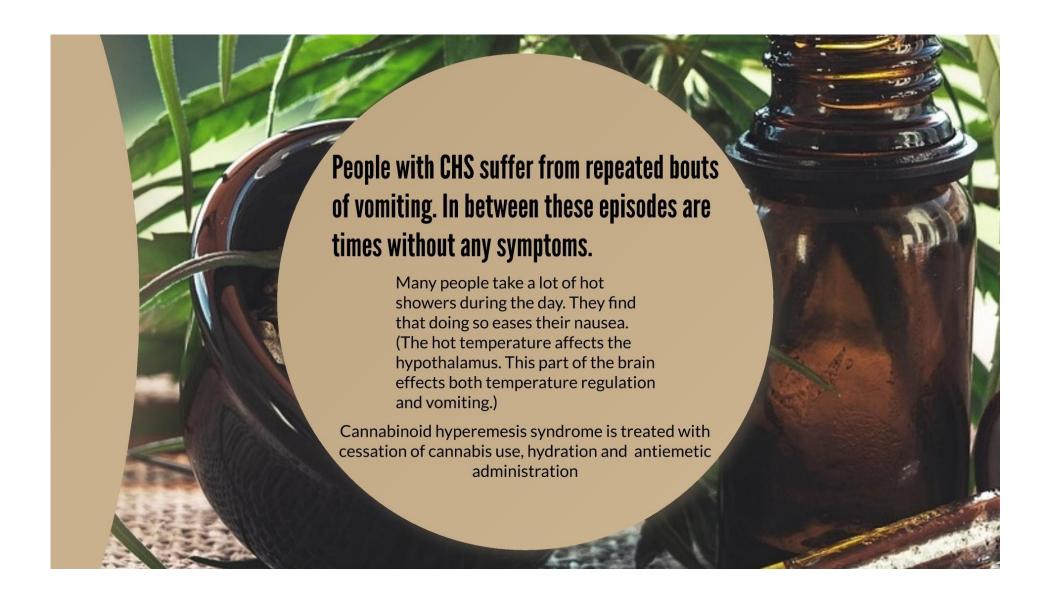








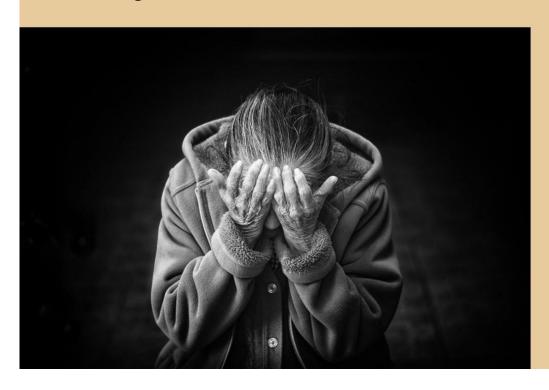








A 72-year-old female presented to seek support around a decline in her quality of life and challenges with her emotional and psychological well-being



Her challenges were primarily associated with managing a generalized anxiety disorder and debilitating symptoms of vertigo.

The patient was also experiencing ongoing grief associated with losing her late husband of 50 years only a few years earlier.

Initially, a benzodiazepine was prescribed to treat her anxiety. The patient stopped taking this after two days due to incessant shaking. The patient was then prescribed another benzodiazepine. She reported that she did not consume this drug due to concern that she would have a similar reaction

She expressed desperation to improve her deteriorating health and quality of life. From the onset of these challenges, she had sought support from her medical team and this care continued throughout the intervention.

The patient undertook a mental health intervention in 16 week format.

In the sixth week, the patient reported that she had sourced her own medical cannabis oil.

By the tenth week, the patient reported significant improvements to her quality of life. She was continuing to adhere to her protocol that involved recommencing daily physical exercises and meditation practices.

She reported that her medical team could not prescribe her a cannabis oil but that they supported and encouraged her to continue the cannabis oil as a daily treatment.

Although the future role that medical cannabis will play in healthcare is unknown, this case demonstrates how the patient was able to significantly benefit from the introduction of medical cannabis into her mental health intervention. In this case, the benefits for the patient using medical cannabis as a treatment in the both the short term and longer-term far outweighed the potential risks that may require consideration for children or adolescents.

You are dispatched to a private residence in a gated community on a Friday evening in fall for a 17 year old male with an unknown medical problem.

Upon arrival, you are met by the patient's older sibling and a few young adults.
The house is well kept and you observe no immediate hazards

The sibling reports they consumed homemade "edibles" approximately 90 minutes prior to calling 911.

They further explain that the patient consumed approximately 20 THC infused gummy bears



The 17 year old patient is found in thier bedroom, complaining of severe anxiety. Patient is inconsolable and is unable to stop crying

Pt denies desire to harm self or others.

Pt denies any accute injury

Pt complains of anxiety and extreme thirst

Pt denies allergies

Pt is compliant with prescribed Zoloft 25mg daily for anxiety and depression

Pt denies any other pertinant medical history.

Pt's last oral intake was "two handfuls" of THC infused gummy bears 90 min ago.

There are no other significant preceding events.

HR: 112 RR: 20 BP: 110/64 w/o orthostatic changes SP02: 99% PERRLA





In July 2014, Governor Andrew M. Cuomo and the New York State Legislature enacted the Compassionate Care Act to provide a medical marijuana program.

In light of the COVID-19 crisis, NY state legislators have to wait until next year to legalize marijuana for adult recreational use.

Marijuana laws are changing at a rapid pace across all 50 states.

As of 2019, eleven states, two U.S. territories, and the District of Columbia have legalized recreational use of cannabis. Thirty-three states, four U.S. territories, and D.C. have legalized

medical use of the drug.

A congressional vote on a bill to federally legalize marijuana will take place in September.

The Marijuana Opportunity, Reinvestment and Expungement (MORE) Act will hit the floor during the week of September 21.

