

# MEDICAL MARIJUANA

"What I have an issue with is the abuse of medical marijuana that is going to happen."  
"For some people it is the correct medicine to prescribe."



Medical Marijuana



1

IF WE ALL HAD A BONG



WEED ALL GET ALONG

Medicine or Getting High!



2



this is why the weather is so messed up

Medicine or Getting High!



3

Yesterday Lisa did just 1 marijuana  
Today she is huffing unicorn farts



Medicine or Getting High!



4



Medicine or Getting High!



5

Marijuana use directly affects the brain — specifically the parts of the brain responsible for:

- Memory;
- Learning;
- Attention;
- Decision Making; and
- Reaction Time.

Source: Center for Disease Control - Marijuana & Public Health

Is it Safe?



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Marijuana smoke is also filled with many of the same chemicals as tobacco smoke:

- Ammonia,
- Hydrogen Cyanide, and
- Formaldehyde.

Source: <https://www.webmd.com/pain-management/features/is-marijuana-safe-web#2>

Is it Safe?



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About 1 in 10 marijuana users will become addicted.

People who begin using younger than 18, that number rises to 1 in 6.

Source: Center for Disease Control - Marijuana & Public Health

Is it Addictive?



8

The lethal half dose for THC in humans is estimated to be around 30 mg/kg.

This means that approximately 2 grams (.07 ounces) of pure THC has a 50 percent chance of killing a 150-pound man.

.35 ounces of high grade weed with 20 percent THC content.

Source: Forensic Science International, Dr. Benno Hartung

Is it Toxic?



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3.2 mg/kg of THC led to observation and minimal medical intervention,

7.2 mg/kg of THC led to admission to an inpatient floor and moderate medical intervention, and

13 mg/kg of THC led to admission to an intensive care unit and major medical interventions

Source: Cannabis (marijuana): Acute intoxication, George Sam Wang, MD Oct. 2020

Is it Toxic?



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**THC OVERDOSE: HAS FIRST DEATH FROM MARIJUANA EXPOSURE BEEN RECORDED IN THE UNITED STATES?**  
June 2019

A coroner's investigation into the death of a 39-year-old Louisiana woman found she died from a THC overdose

Source: Newsweek

Is it Toxic?



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Medical Marijuana Overdose Sends Man to ER - Case report highlights risks of high-strength THC products in patients' hands. September 2019

Source: New England Journal of Medicine,

Is it Toxic?



12

Cannabis-related ER visits in Colorado jump threefold after legalization, study says. March 2019

Source: Study published in the Annals of Internal Medicine

Is it Toxic?



13

Legalized Cannabis Brings New Challenges for Health Care Providers June 2019

Source: Study published in the Annals of Internal Medicine

Is it Toxic?



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Here are some of the other effects you'll feel:

- Trouble thinking and remembering
- Bloodshot eyes
- Dry mouth (cotton mouth)
- Increased appetite (the "munchies")
- Fast heart rate
- Slowed coordination

Your Body on Marijuana



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Here are some of the other effects you'll feel:

- Anxiety
- Paranoia
- Panic
- Hallucinations

Source: Center for Disease Control - Marijuana & Public Health

Your Body on Marijuana



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Marijuana 101



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Why most Massachusetts . marijuana sales are on the black market, two years after legalization.

By Naomi Martin Globe Staff,

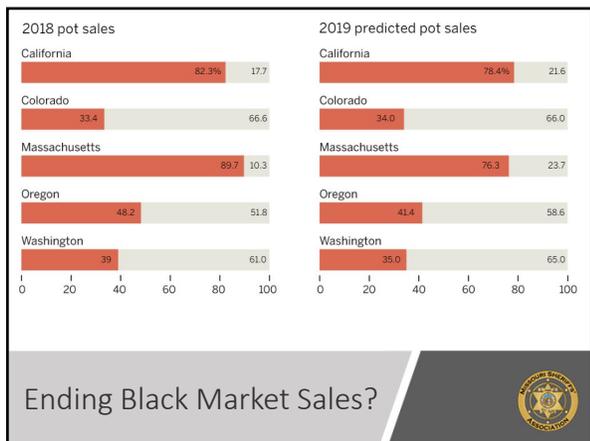
75 percent of the pot sold in Mass. will be under the table.

80 percent of pot sales in California are done in the shadows.

Ending Black Market Sales?



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Andrew Livingston, director of economics and research at Vicente Sederberg, a law firm that specializes in the cannabis industry.

**They are unlikely to buy legal, he said, until licensed stores are competitive with dealers on price, quality, selection, and convenience.**

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Jon DeLena, associate special agent DEA

**“When you have a powerful entity like these drug cartels, they’ll do whatever it takes to stay relevant.”**

**“They have the ability to undercut and undersell these shops that are restricted to state laws and regulations.”**

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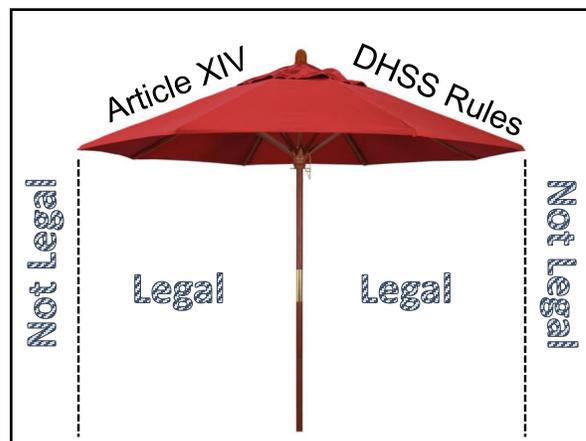
“They’ve made it so inconvenient” to buy legal pot, said **Jennifer Dudley, a 31-year-old** cannabis consumer from Reading. The few stores that are open are “in the middle of nowhere,” she said, adding, “the line was so crazy that I didn’t even bother going in : **I kept the black market alive instead.**”

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Or as one Missouri card holder put it,

“I voted for the right to possess and I have that right now.” “It doesn’t matter when the dispensaries open. It’s not up to the police to know where you got it. That’s your medication.

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## UNDERSTANDING DIFFERENT CANNABIS STRAINS

Different Type of Plants



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### Effects of Cannabis Sativa



**CANNABIS SATIVA**

Grow best in hot climates with ample sun.

Plants grow slim and tall with long, thin, finger-like leaves.

Expect heights exceeding 3m and a cerebral "head high" that is energetic, creative, uplifting, and euphoric.

Best for daytime use.

- Euphoric cerebral high
- Uplifting
- Energizing
- Amplified senses
- Increased focus
- Inspires creativity
- Promotes happiness
- Stimulates the appetite

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### Effects of Cannabis Indica

Better suited for colder climates.

More robust with better resistance.

Plants grow shorter and bushier with wider leaves.



## CANNABIS INDICA

- Induce body relaxation
- Increases the production of dopamine
- Stress relief
- Soothes aching muscles
- Reduce inflammation
- Lessens pains and aches
- Induce drowsiness
- Stimulates the appetite

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### Effect of Cannabis Ruderalis



Wild cannabis that has adapted to extreme environments.

Very short and compact plants with small, chunky buds.

Grows as a weed even "among rubbish" and is extremely robust with good resistance.

- Barely psychoactive (below 3% THC)
- Contains some CBD for sub-perceptual effects
- Ditch Weed

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## Types Of Weed

**SATIVA**

Cannabis Sativa Sativa is characterized by leaflets that are more narrow, branches that are farther apart, and coloration that tends more toward spring green. Sativa Sativa plants tend to be taller and produce fewer flowers.

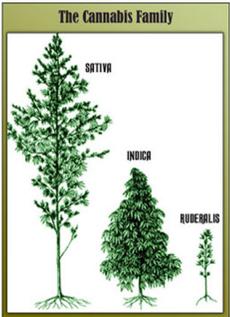
**INDICA**

Cannabis Sativa Indica is characterized by leaflets that are more narrow, branches that are closer together, and coloration that tends more toward deep olive green. Sativa Indica plants tend to be shorter and bushier, producing fuller, denser flower buds.

**RUDERALIS**

Cannabis Ruderalis is characterized by varied leaflets in the mature leaves, a shorter stature and generally small size. This subspecies is used to create S. Sativa or S. Indica hybrids with select desired traits.

www.Types-of-Weed.ORG



The Cannabis Family

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## Sex of the plants



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In cultivating cannabis for use, male plants are useless.

They fertilize female plants causing them to produce seeds instead of flowers.

Of course, if the purpose is to produce seeds, only then do the male plants become valuable to growers.

Identifying male plants is easy. A week or two after it entered the flowering phase, the male pre-flower will look like a ball.

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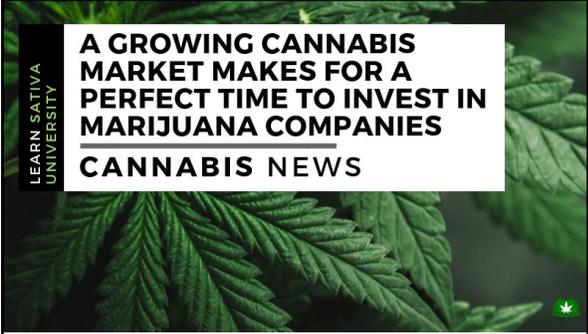
In cultivating cannabis for use, female plants are sought after.

These are the ones that make buds, which is the part of the plant that contains the most THC.

After years and years of work, cannabis plants can be created to have a 99% chance to be female.

You'll only get actual psychoactive weed from the female flowers.

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**A GROWING CANNABIS MARKET MAKES FOR A PERFECT TIME TO INVEST IN MARIJUANA COMPANIES**

**CANNABIS NEWS**

LEARN SATIVA UNIVERSITY

Growing Marijuana Plants



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Outdoor | Growing Limited to Commercial Licensees

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**Outdoor Facility Utilizing Natural Lighting**

1. Limited to 2,800 flowering plants.
2. Must be enclosed on all sides, except at the base, by chain-link fencing, wooden slats, or a similar material that is anchored, attached, or affixed to the ground and that cannot be accessed from the top;

Regulations



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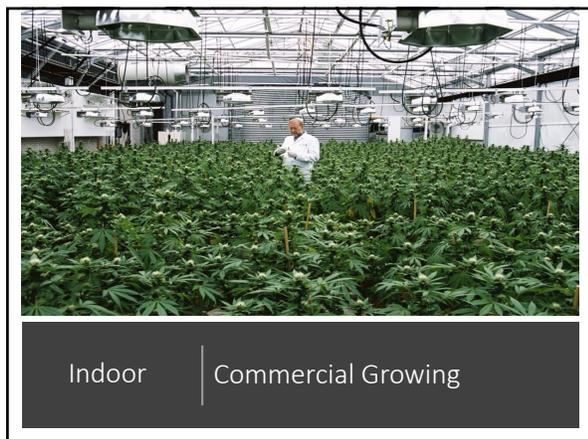
**Outdoor Facility Utilizing Natural Lighting**

3. Plants cannot be visible to the unaided eye from an adjacent property when viewed by an individual at ground level or from a permanent structure at any level; and
4. Must have locks or other security devices that restrict access to only the qualifying patient(s) or primary caregiver(s).

Regulations



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Indoor | Commercial Growing

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**Indoor Facility Utilizing Artificial Lighting**  
 Limited to 30,000 sq. ft of flowering plant canopy space;

**Greenhouse Facilities: Artificial/Natural**  
 30,000 sq. ft, or  
 2,800 flowering plants.

Regulations



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Indoor | Personal Use Growing

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Indoor | Personal Use Growing

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All qualifying patient cultivation shall take place in an enclosed, locked facility, as defined in 19 CSR 30-95.010.

Regulations



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**Enclosed, Locked Facility**

An indoor stationary closet, room, garage, greenhouse, or other comparable fully enclosed space equipped with locks or other functioning security devices that permit access to only the qualifying patient(s) or primary caregiver(s)

Source: 19 CSR 30-95.010.

Regulations



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**Qualifying Patient Cultivation Limits**

One Qualifying Patient:

- 6 Flowering Plant;
- 6 Nonflowering Plants 14" tall; and
- 6 Cloned Plants under 14" tall.

*Note: 18 total plants in a single, enclosed locked facility.*

Source: 19 CSR 30-95.010.

Regulations 

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**Qualifying Patient Cultivation Limits**

Two Qualifying Patients:

- 12 Flowering Plants;
- 12 Nonflowering Plants 14" tall; and
- 12 Cloned Plants under 14" tall.

*Note: 36 total plants in a single, enclosed locked facility.*

Source: 19 CSR 30-95.010.

Regulations 

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**Qualifying Patient Caregiver Cultivation Limits**

Qualifying Patient Caregiver: *(Per Patient)*

- 6 Flowering Plants;
- 6 Nonflowering Plants 14" tall; and
- 6 Cloned Plants under 14" tall.

*Note: 3 qualifying patients per caregiver 54 total plants.*

Source: 19 CSR 30-95.010.

Regulations 

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**Qualifying Patient Cultivation Limits**

Two Qualifying Patients & one is a Primary Caregiver with a cultivation card:

- 18 Flowering Plants;
- 18 Nonflowering Plants 14" tall; and
- 18 Cloned Plants under 14" tall.

*Note: 54 total plants in a single, enclosed locked facility.*

Source: 19 CSR 30-95.010.

Regulations 

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**Qualifying Patient Cultivation Requirements**

All cultivated flowering marijuana plants in the possession of a qualifying patient or primary caregiver shall be clearly labeled with the qualifying patient's name.

Regulations 

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**Qualifying Patient Cultivation Requirements**

The cultivation identification card with a cultivation authorization shall be clearly displayed within the enclosed cultivation area and in close proximity to the marijuana plants.

Regulations 

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### Qualifying Patient Cultivation Requirements

The authorization shall list the name of the qualifying patient or primary caregiver and the address of the facility in which that qualifying patient or primary caregiver is authorized to cultivate marijuana.

Regulations



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### Patient Cultivated Marijuana Consumption

**Public Place: (NOT ALLOWED)**  
Any public or private property, or portion of public or private property, that is open to the general public, including, but not limited to, sidewalks, streets, bridges, parks, schools, and businesses.

Source: 19 CSR 30-95.010.

Regulations



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MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES  
SECTION FOR MEDICAL MARIJUANA REGULATION  
MEDICAL MARIJUANA REGULATORY PROGRAM  
**PATIENT AUTHORIZATION FORM**

Save Print Reset

A Patient Authorization Form is required by 19 CSR 30-95.030 as proof of a patient's desire that a particular individual serve as the patient's primary caregiver and must be submitted with a Primary Caregiver Registration Application. Please ensure information provided is consistent with the applicable Primary Caregiver Registration Application.

**PATIENT NAME**  
LAST NAME FIRST NAME MIDDLE NAME

**PRIMARY CAREGIVER NAME**  
LAST NAME FIRST NAME MIDDLE NAME  
SOCIAL SECURITY NUMBER DATE OF BIRTH

I, \_\_\_\_\_, affirm that it is my desire that \_\_\_\_\_ serve as my primary caregiver in order to assist me in the medical use of marijuana.

PATIENT SIGNATURE DATE

MO 380-3272 (8-18) DHS-38MPF-4 (8-18)

Patient Authorization Form



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MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES  
SECTION FOR MEDICAL MARIJUANA REGULATION  
MEDICAL MARIJUANA REGULATORY PROGRAM  
**PARENT / LEGAL GUARDIAN CONSENT FORM**

Save Print Reset

A Parent/Legal Guardian Consent Form is required by 19 CSR 30-95.030 as proof of consent by a parent or legal guardian for a minor's use of marijuana for medical use and must be submitted with any Patient Registration Application for a non-emancipated qualifying patient. Please ensure information provided is consistent with the applicable Patient Registration Application and the applicable Primary Caregiver Application.

**PATIENT NAME**  
LAST NAME FIRST NAME MIDDLE NAME

**PARENT/LEGAL GUARDIAN WHO WILL SERVE AS PRIMARY CAREGIVER NAME**  
LAST NAME FIRST NAME MIDDLE NAME  
SOCIAL SECURITY NUMBER DATE OF BIRTH

I, \_\_\_\_\_, affirm I am the parent or legal guardian of \_\_\_\_\_ and this is my written consent for the Department of Health and Senior Services to issue a Patient Identification Card for his/her medical use of marijuana under my supervision.

PARENT/LEGAL GUARDIAN SIGNATURE DATE

MO 380-3272 (8-18) DHS-38MPF-5 (8-18)

Guardian Consent Form



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Buds/Dried Unprocessed  
10-25% THC



53



Medical Marijuana  
Edibles

Cannabis Infused Products & Edibles



54



Cannabis Infused Products



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Cannabis Infused Products



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Cannabis Infused Products

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The Loud Line  
400mg Cannabis Gummy Edibles



57



Cannabis Infused Products



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Cannabis Infused Products



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CBD Breakfast Cereal



**Rasta Puffs**  
CBD Breakfast Cereal

www.earthshineorganics.com 300MG  
Keep Out of Reach of Children and Pets. For CBD Wellness Use Only.

60



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62

No person shall extract resins from marijuana using dangerous materials or combustible gases without a medical marijuana-infused products manufacturing facility license.

**Not Allowed!**

Extracting resins from marijuana

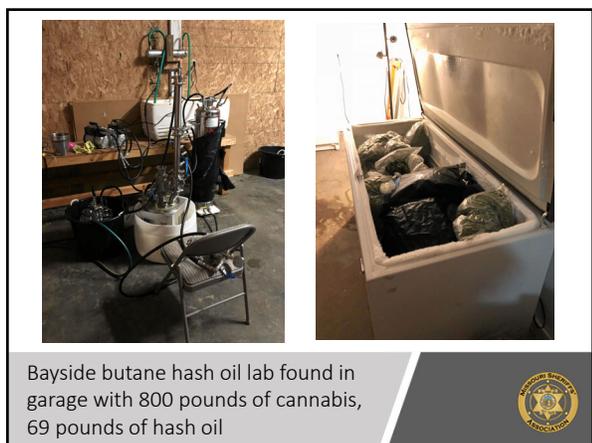
63

Violation of this prohibition shall subject the violator to department sanctions, including an administrative penalty and, if applicable, loss of their identification card, certificate, or license for up to one year.

**Note: No Criminal Penalty**

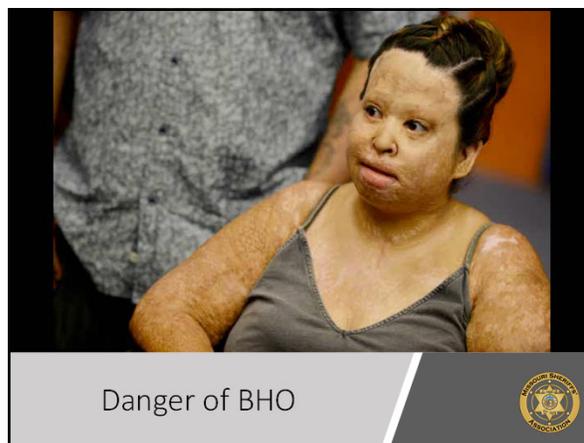
Extracting resins from marijuana

64



Bayside butane hash oil lab found in garage with 800 pounds of cannabis, 69 pounds of hash oil

65



Danger of BHO

66



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68



69



70



Whipping BHO



71



Best Consistency BHO



72



73



74



75



76



77



78

**HOW TO GET A  
MEDICAL MARIJUANA CARD  
IN MISSOURI**

**MED CARD**  
CERTIFICATION

Medical Marijuana Cards

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**MISSOURI**  
THE GREAT SEAL OF THE STATE OF MISSOURI  
1820

**Missouri Dispensaries**  
MODispensaries.com

Getting your card

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We know you need the medicinal benefits and pain management relief, and we're here to help you with all aspects of obtaining your Doctors recommendation and ID card. If you're wondering how to get certified, you've come to right place with the best prices Guaranteed. Give us a call and we'll quickly walk through the process of becoming a legal medical marijuana patient. The process is simple as long as you're working with the right people like us who always keep up with the latest laws Department of Health Rulemaking Process.

Getting your card online

81

televisit

**Medical Marijuana  
Doctor's Exam**  
Every Tuesday, Thursday, and  
Saturday!

\$150 Flat Fee!  
Check-in from 12-1pm  
No appointment necessary!

No medical records required! Just bring photo ID!  
(Have social security number and email ready.)

The Doctor is in!

82

The Doctor is in!

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We Burn Outback!

84

### Doctors who can certify patients

Only physicians who are licensed and in good standing to practice medicine or osteopathy under Missouri law;

Those who are admitted to practice in Missouri by reciprocity pursuant to section 334.043.

Qualified Physicians 

85

### Application Process

DHSS only accepts patient/caregiver applications **submitted on line** through its secure registry.

- The patient must have **access to the internet** to submit their application;
- The patient must **have an email account**;
- The patient needs an electronic method of payment.

Application Process 

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### Application Process

- **Obtain a blank “Physician Certification” form**, then visit a Missouri licensed physician, who is active and in good standing to practice medicine or osteopathy;

Application Process 

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### Application Process

- The patient must **submit** the Physician Certification form **with their online application**;
- The Physician Certification form must be **issued no more than 30 days prior** to the patient submitting their online application;

Application Process 

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### Application Process

Applications must be submitted electronically and include:

- Color photo,
- Government issued identification,
- Proof of legal guardianship (if applicable),
- Consent form (if applicable),
- Written description of the patient cultivation facility security arrangements and processes (if applicable)

Application Process 

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### Patient Services – Physician Certification Form

Physician certifications must be complete.

- Physician’s name;
- Licensee number and whether licensed to practice medicine or osteopathy;
- Physician’s business address, telephone number, and email address;
- Qualifying patient’s name, date of birth, and social security number;
- Qualifying patient’s qualifying condition;
- Physician’s recommendation on the amount of medical marijuana the qualifying patient should be allowed to purchase in a 30-day period – up to four ounces of unprocessed marijuana or its equivalent.

Physician Certification 

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### Legal Possession Marijuana in Missouri

- Patients and caregivers with a valid department issued identification card; or
- Persons with a pending qualified patient or caregiver application that has been filed who can produce a physician certification; or
- An equivalent identification card or authorization issued by another state or political subdivision of another state.

Legal Possession 

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### Legal Possession Marijuana in Missouri

- If requested, the **possessor** of medical marijuana must produce on demand to the appropriate authority, a valid department issued identification card or equivalent identification card issued by another state or political subdivision.

*Note:* No one is required to produce or even state they have a qualifying patient or caregiver card unless they are in possession of marijuana.

Legal Possession 

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Qualifying patients or their caregivers may purchase up to **4 ounces** of dried, unprocessed marijuana, or its equivalent, in a **30 day period**.

*Note: 4 Ounces = 113.40 grams*

Legal Possession Limits 

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**If a patient requires more** than this amount, two independent physician certifications stating the amount needed must be submitted with the patient application.

Legal Possession Limits 

94

Qualifying patients **who do not cultivate** or have medical marijuana cultivated on their behalf, **up to a 60 day supply** of dried, unprocessed marijuana per qualifying patient, or its equivalent;

*Note: 8 Ounces = 226.80 grams*

Legal Possession Limits 

95

Qualifying patients who are cultivating marijuana for medical use or whose primary caregivers are cultivating marijuana on their behalf, **up to a 90 day supply** of dried, unprocessed marijuana or its equivalent, so long as the supply of medical marijuana cultivated by the qualifying patients or primary caregivers remains on property under their control.

*Note: 12 Ounces = 340.20 grams*

Legal Possession Limits 

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**Missouri Marijuana Equivalency Units (MMEs)**

Monthly Purchase Limits - Qualified patients are allowed to purchase up to 4 oz. (32 MMEs) of compliant product per month.

Marijuana 3.5 grams	=	Marijuana Concentrate 1 gram	=	THC Infused Product 100 mg
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- A common purchase quantity of marijuana is 3.5 grams which is equal to 1 MME.
- This means that 1 MME is also equivalent to 1 gram of marijuana concentrate or 100 mg of THC infused product.

Equivalency Units



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*(Example Purchase)* 7 grams of marijuana + 4 grams of marijuana concentrate + 200 mg of THC infused products.

7 grams of marijuana =  $7 \div 3.5 = 2$  MMEs  
 4 grams of concentrate =  $4 \div 1 = 4$  MMEs  
 200 mg of THC infused product =  $200 \div 100 = 2$  MMEs

**2 + 4 + 2 = 8 MMEs**

32 MMEs - 8 = 24 MMEs remaining from monthly allotment  
*(From above example)*

Missouri Department of Health and Senior Services  
 medicalmarijuana.mo.gov • Toll-free 866-219-0165  
 #203\_09/2019

Equivalency Units



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**Stay High Blog**

Weed Measurements Guide: Marijuana Quantities, Weights & Prices  
<https://coloradocannabistours.com/>

Quantity Measurements



99

1 Ounce  
~28 grams



Weed Measurements Guide: Marijuana Quantities, Weights & Prices  
<https://coloradocannabistours.com/>

Quantity Measurements



100



Quantity Measurements



101

1 GRAM

1/2 GRAM

1/4 GRAM



Quantity Measurements



102

All medical marijuana purchased from a dispensary must be stored in or with its **original packaging**.

Storage Regulations



103



104

No qualifying patient shall **consume** marijuana for medical use **in a public place**, unless provided by law.

No qualifying patient who is under the care of a primary caregiver may serve as the primary caregiver for another qualifying patient.

Regulations



105

No individual shall serve as the primary caregiver for **more than 3 qualifying patients**.

No individual shall serve as a primary caregiver for a qualifying patient who is already served by 2 primary caregivers.

Caregiver Regulations



106

Where a qualifying patient is no longer entitled to **medical marijuana** under any provision of state law or is deceased, any excess medical marijuana or marijuana plants in the possession of the qualifying patient or the patient's primary caregiver or discovered by a third party **shall be turned over to a licensed dispensary for disposal within 30 days** of the event that makes the qualifying patient ineligible.

Disposal of Marijuana



107

**Before delivering** the excess medical marijuana to a dispensary, the individual in possession of the excess marijuana **must contact the department**, and the department will coordinate delivery arrangements between the individual and a dispensary.

Disposal of Marijuana



108

**The individual** in possession of excess medical marijuana **shall receive** from the department **written, temporary authorization to transport medical marijuana**, which shall include details regarding the delivery arrangements approved by the department.

Disposal of Marijuana 

109

The **possession and transportation of medical marijuana** shall not subject the possessor to **arrest, criminal or civil liability**, or sanctions under Missouri law, provided that the possessor produces on demand to the appropriate authority a copy of the temporary authorization for transport or evidence of communication with the department regarding delivery arrangements.

Disposal of Marijuana 

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All marijuana for medical use, including plants, flowers, and infused products, **sold in Missouri** shall be cultivated in a licensed cultivation facility located in Missouri.

**After December 31, 2020, marijuana for medical use shall be grown from seeds or plants obtained from a Missouri licensed cultivation or dispensary facility.**

Buying/Selling Marijuana 

111

Each qualifying patient or primary caregiver who receives a qualifying patient cultivation identification card with a cultivation authorization, which shall be clearly displayed within the enclosed cultivation area and in close proximity to the marijuana plants.

Labeling Cultivated Plants 

112

The authorization shall list the name of the qualifying patient or primary caregiver and the address of the facility in which that qualifying patient or primary caregiver is authorized to cultivate marijuana.

Labeling Cultivated Plants 

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Marijuana & Firearms

K9 Searches

Firearms / K9 Searches 

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