




What I've been up to

- Kids and Colorado
- Recovery
- Phoenix Multisport 2007-12
- UCH 2012-17
- Book "Weed Inc"
- Cannabis in Medicine: An Evidence Based Approach
- TED Talk 2017
- Consulting (Treatment, Athletics, Labor)
- US States, Canada, New Zealand
- Foundry Steamboat
- Other Affiliations
 - NALGAP
 - NMI
 - University of Florida
 - SAM
 - S.A.F.E


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Foundry Steamboat

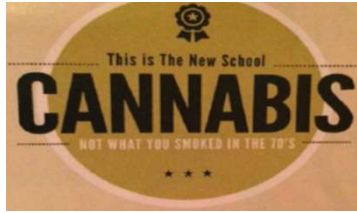
- Foundry Treatment Center Steamboat is a behavioral healthcare system pioneering the practice of Trauma-Integrated Care to improve treatment outcomes for individuals and families experiencing problematic substance use and mental health disorders.
- A clinically-integrated program built to support a model of care that helps people address the effects of PTSD, developmental trauma, and other adverse life events to remove barriers to successful long-term recovery
- Providing integrated medicine to treat behavioral health conditions like the complex, chronic medical problems they are
- COMING TO WYOMING!



Ben Cort and Dr. Shuler

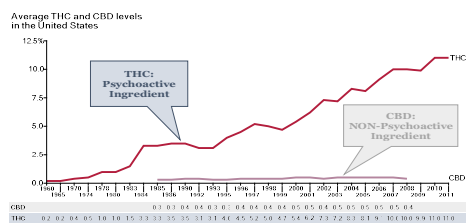
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FOUNDRY STEAMBOAT SPRINGS 3

The Times They Are A Changin'

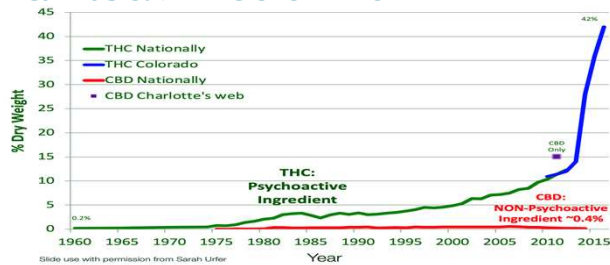




Marijuana has become significantly more potent since the 1960s



Cannabis: % THC Over Time



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What is Substance Use Disorder (Addiction)

2–3 criteria indicate a mild disorder, 4–5 a moderate disorder, 6 or more, a severe disorder

1. Taking the substance in larger amounts or for longer than you meant to
2. Wanting to cut down or stop using the substance but not managing to
3. Spending a lot of time getting, using, or recovering from use of the substance
4. Cravings and urges to use the substance
5. Not managing to do what you should at work, home or school, because of substance use
6. Continuing to use, even when it causes problems in relationships
7. Giving up important social, occupational or recreational activities because of substance use
8. Using substances again and again, even when it puts the you in danger
9. Continuing to use, even when the you know you have a physical or psychological problem that could have been caused or made worse by the substance
10. Needing more of the substance to get the effect you want (tolerance)
11. Development of withdrawal symptoms, which can be relieved by taking more of the substance.

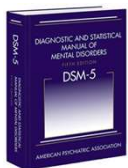
DSM5



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THC & Addiction



The DSM-5 clearly spells out the objective criteria for addiction, and for the first time "cannabis withdrawal" is listed as a diagnosis.



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THC and Addiction

- This is very real and not easy to treat
- Often requires long stays in treatment and anti-psychotic medications
- Traditional rates were around 10% rates today are reaching up to 30% as a result of increased potency (Janni Leung et al 10/20)
- Many of these addicted patients require physical detox and medical intervention



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Econ 101

Why does the old 80/20 rule matter here?
 6.1% of MJ users in CO purchase 75.7% of the THC products
 This number is the chronic user as well as those "rounding" and purchasing for young people. (HB 21-1317)

Tolerance is key to understanding this use



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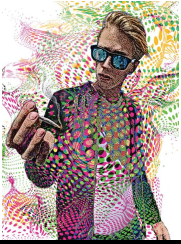
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Contributing Factors to Marijuana Dependence



- Age of Onset
- Frequency of Use
- THC Potency

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RECREATIONAL MARIJUANA

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MARIJUANA
CONSUMPTION TRENDS
Coming Attractions

Consumption Trends – Beyond Smoking





Concentrates Edibles Vape

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RECREATIONAL MARIJUANA

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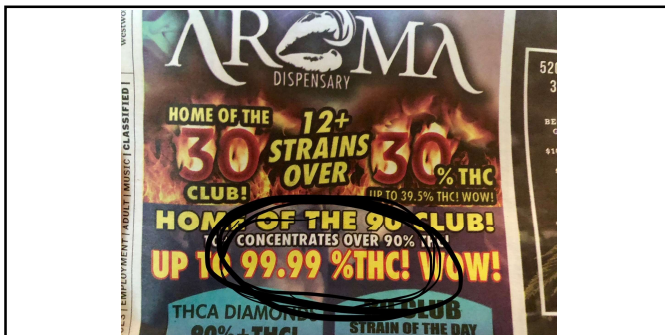
Portland Mercury 1/31/18

"I used to get high back in high school and college, and boy, it was great. I was giggly/creative/happy, and had a great time whether I was with my friends or by myself. Now that I'm older, it seems like things have turned. When I smoke now, instead of being happy/creative, I'm tired/depressed/paranoid/introverted. I want to get high like I did back in the day. What I am doing wrong, and what do I need to do differently?"



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DISTILLATE
WATER CLEAR. NO ALCHEMY. JUST PURE SCIENCE.

THE COLORADO Cannabis CO.

Colorado Cannabis Company is leading the industry in producing high potency, water clear distillate.


Our clean, pure distillate contains no additives or cutting agents and is available in sleek 1000 mg glass syringes, 500 mg inhalable vape cartridges, and 250 mg disposable vape pens, depending on your needs.

We re-infuse our distillate with strain specific 100% cannabis-derived terpenes to bring out the essence of the plant. The effects, flavor, and aroma of our offerings reflect the true characteristics of each strain as if it were

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STEAMBOAT SPRINGS 19

Trigger Warning



<https://www.youtube.com/watch?v=suan2qvhlis>

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STEAMBOAT SPRINGS 20

<https://www.youtube.com/watch?v=SlPMFpKBBmY&t=191s>

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STEAMBOAT SPRINGS 21







"Weed" Redefined



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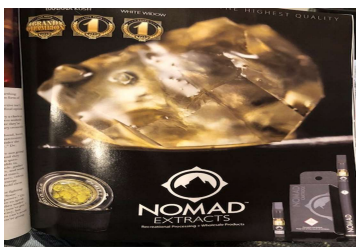
"Weed" Redefined



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"Weed" Redefined



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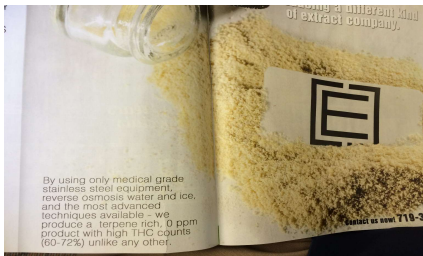
"Weed" Redefined



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"Weed" Redefined



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"Weed" Redefined



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"Weed" Redefined



"Weed" Redefined



"Weed" Redefined



“Weed” Redefined



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“Weed” Redefined



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“It’s Natural”



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Vapes








The Adjuva
Agricor Labs
Bear Morky
Bulldog Pro
Cannabis T
Cannopoly
CLogistics
The Clinic
Cohen Ma
Colorado
Concentri
CWC Soil
DoobyDa
EndoCan
Escape/F
Evolve P
Franklin
Greenho
GreenLu
Hybrid E
Kindred
L'Eagle
Lab Soc
Lowsp2
LUXX R
Mac &
marQa
Mary J.
MedPl
Monte

Vapes




VaporCup
Digital Vaporizer

Great for:
- Home
- Office
- On The Go

20% OFF
WITH CODE
Save20
ends 12/31/17

The Grasshopper Titanium Vaporizer
is a recently designed, portable, discreet device.




Titanium Grasshopper leaps to next level of discretion, packs surprising power (review)

90 reviews

PUBLISHED NOV 30, 2016, 4:55 PM • UPDATED NOV 30, 2016, 6:53 PM

By Chris Thomas, The Cannabisist Staff

The days of the "Easi Vape" have long passed, but I'm still a sucker for more power. There's something oddly satisfying about using a well-made, powerful tool. There's a reason people love muscle cars, iPhones, and power drills. See...



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SLIM, SILENT, SMOOTH
THERE'S NO
THERE'S NO
THERE'S NO
THERE'S NO
THERE'S NO

iKruher
Vaporizer


Vape different

Cannabisist

Stash, PUFFIT vaporizer mimics inhaler (review)




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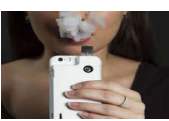


SUORIN AIR
THE ULTIMATE STEALTH VAPORIZER


dictac-toke
The ultimate in stealth vaping




VapeRw




VapeRw



VapeRw



VapeRw



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Vapes



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The Incredible, Edible Weed



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Edibles

10 mg is a legal dose
So.....



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Edibles



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A new record!



Korova Black Bar 1000mg \$35!

Edible

Description:
Get \$10 off each Korova Black Bar while available!



3 mg
Newport Beach, CA



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"Infused Everything"

Infused everything: These cannabis products might surprise you

Coffee. Post-tattoo ointment. Toothpaste. Um, vaginal suppositories? The staggering variety begs the question, 'What can't we infuse?'

PUBLISHED JUN 24, 2018, 7:27 PM • UPDATED 7 DAYS AGO [ADD A COMMENT](#)

By **Katie Shapiro**, *The Cannabis Staff*

Move over edibles, lotions and tincture potions — there's an entire new realm of cannabis-infused products hitting the shelves of dispensaries and recreational shops as marijuana becomes further into the mainstream.

Edibles

7 COOL CANNABIS CONDIMENTS

By **Ellen McDonough** June 14, 2018 [f](#) [t](#) [p](#) [e](#)

Turn any dish into a medicated meal with versatile, cannabis-infused condiments. Using medicated sauces lends valuable flexibility to menu planning while making correct THC dosing very easy.

7 ENERGIZING CANNABIS COFFEES

By Elise McDonough January 25, 2017





PHOTO BY SHAWN LLOYD

Making a "hippie speedball" is easier than ever before with these blends of THC and caffeine.



Industry in...
On the Colorado market, an alternative to a low-temperature morning coffee...
CLASSIC/BELIEF TO RELIEVE PAIN AND SOOthe
CLASSIC TO BE ACTIVE AND INTERESTED
DECAF TO SLEEPY AND TIGHT

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Natural Plant Powered FLAV (www.flav.com)

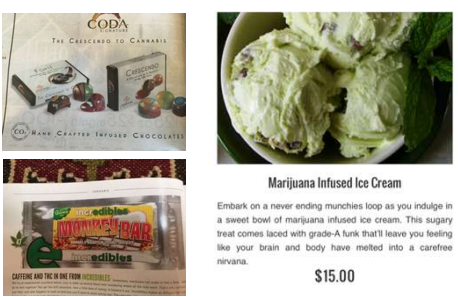


Flav Lemonade
High Hanging Fruit

14 NOVEMBER 2018 Denver & Boulder

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Edibles

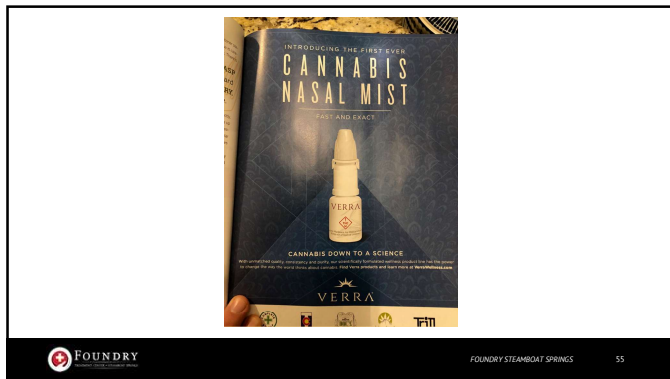


Marijuana Infused Ice Cream

Embark on a never ending munchies loop as you indulge in a sweet bowl of marijuana infused ice cream. This sugary treat comes laced with grade-A funk that'll leave you feeling like your brain and body have melted into a carefree nirvana.

\$15.00

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MEDICINAL CANNABIS CENTER
THIS AD IS INTENDED FOR COLORADO

OCTOBER

ALL PRICES

B's Treats

BUY 3 B'S TREATS 70MG LOLLIPOPS
FOR THE PRICE OF 2!

\$15

DENVER GRA
OCTOBER 7T

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FOUNDRY STEAMBOAT SPRINGS

Elevate

your experience

FOUNDRY
FOUNDRY STEAMBOAT SPRINGS

WITH AROMATIZED OILS

NANO BITES

BITE-SIZED GUMMIES INFUSED WITH THC & CBD NANOPARTICLES

DSD NANO BITES

What are THC/CBD nanoparticles?
Our NANO BITES provide more efficient absorption & a faster onset compared to traditional edibles. Made from our exclusively refined distillate, NANO BITES contain cannabinoid nanoparticles which are utilized by the body much more efficiently than unrefined oils. Get more out of your dose - with far less waste!

DSD
dseedbites.com
info@dseedbites.com

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Perfectly portable.

FOUNDRY UP for a refreshing blast of tart and tart with our new flavored tart edibles. These edibles come with 100mg of THC and are perfect for those who want to enjoy the benefits of cannabis in a discreet and portable way. First-time patients of a dispensary may get a discount.

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Have your pot and drink it too

Do you ever come home after a long day at work and feel torn between which substance you want to use to escape reality? It's OK, you're not alone. It's a tough choice, especially in Colorado where thriving microbreweries and marijuana dispensaries both

the high Well, back in January, Keith Villa, the guy who created Blue Moon Brewing Company and worked as the head brewmaster for 35 years, announced his retirement from Molson-Coors.

Fortunately for us, retirement must have been hell for Keith 'cause he spent the entire time experimenting with craft beer and marijuana in preparation for his next venture. Now, he's teaming up with his wife, Joelle, to officially launch their new brand: Ceria Beverages. Actually, now that I think about it, three months of concocting drinks and researching how to get the masses in sounds like the best retirement ever. Sign me up.

Based in Arvada, Ceria's company goals this

six milligrams of TH born will be in the 1 the full-bodied offer gram range. And it even the drinks will lar to its deeper a blue leaf for inner experienced use vitamin opera

To be clear exist, so this is Brewing green IPA, but it's on high, because active cannabis shows that it

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SPRING CLEANOUT

CONCENTRATES
8ths \$20
1/4 Oz \$40
1 Oz \$99
(first time patients)

CLONES
1st Gram \$20
\$25 After
1 Oz \$600 & Up

FREE STUFF
Buy 5
Get 1 Free
Or \$10 Each

2 FREE JOINTS
Any Purchase
(first time patient)

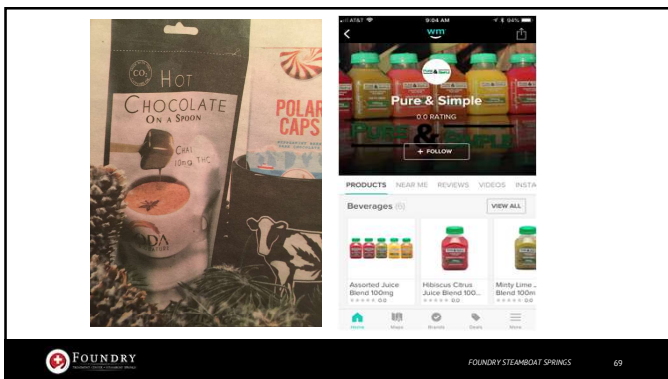
3 JOINTS \$10
10 JOINTS \$25

Keef Cola
225 MG \$8
350 MG \$10

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"Infused Everything"



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Edibles



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Edibles



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www.nkmmj.com

f t i m

MT. MEDBAR

350mg \$10

225mg \$8

WANNA SOUR

FOUNDRY
STEAMBOAT SPRINGS

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SALE

Buy One Get One Free

Wide Range of Products

When One is 10-15, When is One Free

and Special Recommendations from the Staff

suckit

LIQUID THC

Featuring Canyon Cultivation

Two hours free Discounted

pending with Purchase!

HELPING HANDS REWARD

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STEAMBOAT SPRINGS

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MAJOR BLAZE

Experience the direct effect of handcrafted cannabis consistently, without taste and harsh inhaling. All powered with agave and more fruit.

Indica • Sativa • Hybrid • Hybrid Two-Light

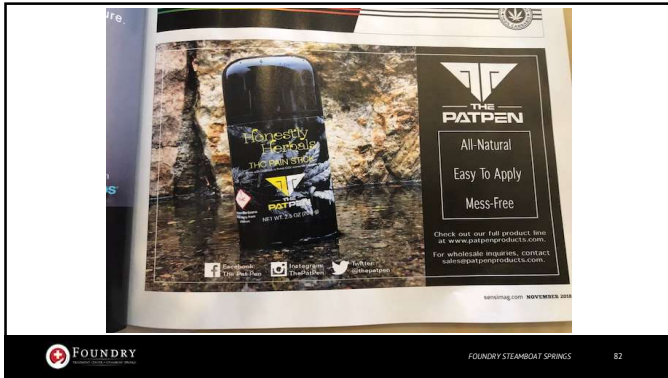
Single 2oz Serving

10mg Concentrated, Measured Dose

Infused with Organic Lemon certified oil creating a pure, balanced and consistent product

FOUNDRY
STEAMBOAT SPRINGS

FOUNDRY STEAMBOAT SPRINGS 81





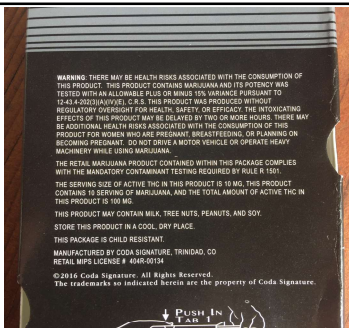


Everything!



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Cannabis & Trauma Exposure

- More parents using cannabis at home since legalization
- Parental use exposes kids to potential neglect and Adverse Childhood Experiences (ACEs), which contribute to problems

Source: "Trends in cannabis use among adults with children in the home in the United States, 2004–2017: impact of state-level legalization for recreational and medical use," Society for the Study of Addiction



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Cannabis & Family Dysfunction

- Normalized use of cannabis by family members makes it hard for some members to relate and feel supported to stop using
- At Foundry Treatment Center Steamboat, we treat families in which cannabis use complicates the ability for people to enter and sustain recovery.



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Mental Health Consequences: Casual Use

- Increased Risk of depression
- Increased Acute Anxiety
- Increased risk of anxiety disorders
- Worsened outcomes in bipolar disorder
- Increased Psychosis
- Increased Schizophrenia
- Risk of attempted suicide requiring hospitalization



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Physical Health Consequences: Acute

- Impaired memory
- Impaired motor coordination
- Slowed Reaction Time
- Increased Singular Focus
- Reduction in Perceptual Accuracy
- Increased heart rate
- Increased risk of angina, heart attack and stroke in those with and without previous heart attack
- Electrolyte imbalances
- Respiratory issues (difficulty for individuals to intake)



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Physical Effects of Chronic Use

- Changes in physical structure of the brain
- Immune system decrease
 - Reduced weight and height (adolescents)
 - Increased risk of testicular cancer (dose response related)



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Engaging Young People

- Consider their "reality"
- Play the long game
- Ask more than tell
- Don't let them pigeon-hole you into "reefer madness" but don't be a pushover
- Create an abstinence challenge
- Harm reduction isn't a bad word(s)



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Treatment

- Providers must avoid micro-aggressions
- The progression of this disease is often slower than other substances
- Motivation can be challenging to find
- Normalized use in peer groups
- Cultural considerations (family, society, peers, religion)
- Detox is complex and many symptoms are cited as reasons why one consumes
- Length of Detox is hard to predict and can come at very bad times in the treatment episode, like 2 weeks in
- Studies suggest that abstinence is hard to achieve but reduction may be easier
- Normalization of sobriety when it comes to everyday activities (eating, music, entertainment, etc)
- Triggers exist everywhere and should be addressed proactively
- MA is online!



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The Arguments

- It's Natural
- Nobody has ever died
- This is just more reefer madness
- It's my medicine
- It isn't addictive
- Laws restricting cannabis are racist
- This is about social justice
- It shouldn't be a schedule 1 drug
- Opposing Cannabis is not popular, just an old school anti-drug message
- It makes economic sense
- Amsterdam, Uruguay, Canada and all that



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