Medical Marijuana for the Treatment of Opioid Use Disorder?

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CDC: Treatment of OUD

?

Is THC a recommended treatment for OUD?

CDC: Treatment of OUD

Counseling

Medication

Medication Assisted Treatment

Inpatient Treatment

Medications for treatment of Opioid Use Disorder:

METHADONE BUPRENORPHINE NALTREXONE

NO!

THC is not listed as an approved medication for the treatment of OUD!

? State approval versus federal approval

History of Medical Marijuana in Pennsylvania

April 17, 2016

Governor Tom Wolf

Senate Bill 3

17 Medical Conditions

ALS

AUTISM

CANCER

CROHN'S DISEASE

DAMAGE TO CNS WITH SPASTICITY

EPILEPSY

GLAUCOMA

HUNTINGTON'S DISEASE

IBD

INTRACTABLE SEIZURES

MS

NEUROPATHY

PARKINSON'S DISEASE

POSITIVE FOR HIV

PTSD

SEVERE INTRACTABLE PAIN

SICKLE CELL DISEASE

Additional six diagnoses: total of 23

Anxiety

Dyskinetic & Spastic Movement Disorders

Neurodegenerative Diseases

Opioid Use Disorder

Terminal Illness

Tourette's

ANXIETY

CANCER

EPILEPSY

GLAUCOMA

NEUROPATHY

POSITIVE FOR HIV

SEVERE INTRACTABLE PAIN

SICKLE CELL DISEASE

What defines a treatment?

What are the goals of treatment?

In the case of THC, what are the benefits of THC in each of these diseases?

What benefits might THC have in OUD?

THC Receptors: cannabinoid CB1R and CB2R

CB1R is CNS

CB2R is found is lower amounts receptors also found in GI, Immune, Reproductive cells

Pleasure

Memory

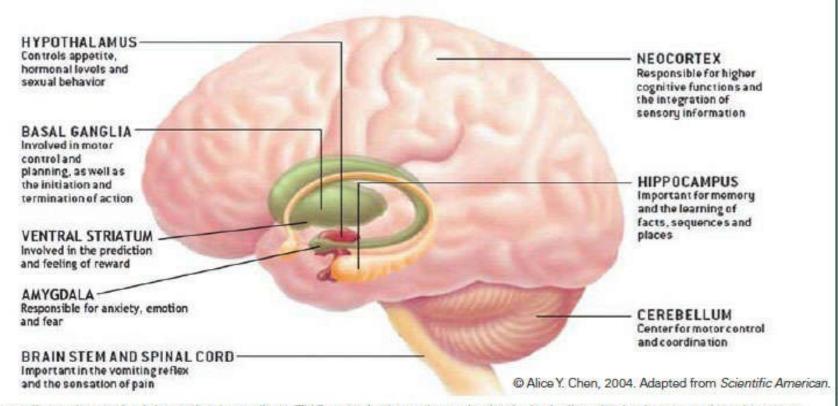
Concentration

Movement

Coordination

Sensory and Time perception

Marijuana's Effects on the Brain



When marijuana is smoked, its active ingredient, THC, travels throughout the body, including the brain, to produce its many effects. THC attaches to sites called cannabinoid receptors on nerve cells in the brain, affecting the way those cells work. Cannabinoid receptors are abundant in parts of the brain that regulate movement, coordination, learning and memory, higher cognitive functions such as judgment, and pleasure.

ANXIETY

CANCER

EPILEPSY

GLAUCOMA

NEUROPATHY

POSITIVE FOR HIV

SEVERE INTRACTABLE PAIN

SICKLE CELL DISEASE

Decreased:

* number or duration of panic attacks

* severity of pain

* number of seizures

* intraoccular pressure

Increased:

* appetite

* quality of life

* ADLS (activities of daily living)

THC for the treatment of opioid use disorder

A handful of results: Pa.gov "Prescription opioids are risky"

Ad sponsored by Long-acting injectable buprenorphine

Veriheal "15 minute doctor consultations"

Reset: website for digital therapeutics

Spotlight PA "Patients swear by cannabis"

Scholarly Articles
NIH and others

Emerging Evidence for Cannabis' Role in Opioid Use Disorder

9/1/2018 online
Beth Wiese and
Adrianne Wilson-Poe

Shortcomings of current treatment

Relative safety of cannabis

Close proximity of cannabis and opioid receptors in the brain

Recommend further study!

Cannabidiol for the reduction of cueinduced craving and anxiety in drugabstinent individuals with heroin use disorder: a double-blind randomized placebo-controlled trial

American Journal of Psychiatry, 2019 Yasmin L. Hurd, et al.

CBD administration

Acute (1,2 and 24 hours)
Relative safety of cannabis,
Short term (3 days)
Protracted (7 days)

Reduction of cravings and anxiety produced by drug cues

Recommend further study!

Therapeutic potential of opioid/cannabinoid combinations in humans: Review of the Evidence

2020 European Neuropsychopharmacology

Shanna Babalonis and Sharon Walsh

Review of literature

Conclusion: "despite anecdotal and correlational reports suggesting a benefit of cannabis on reducing opioid overdose, there is no strong data supporting this contention...data do not support the role of cannabinoids for opioid replacement or opioid-sparing effects when treating OUD..."

What are the goals of MAT?

Ultimate Question:

SAMHSA, Medication-Assisted Treatment

- 1. Improve Patient Survival
- 2. Increase Retention in Treatment
- 3. Decrease illicit opioid use and other criminal activity among people with SUD
- 4. Increase patients' ability to gain and maintain employment
- 5. Improve birth outcomes among women who have SUD and are pregnant

Conclusions:

Some patient have reported substituting THC for opioids

THC may help reduce anxiety which indirectly reduces opioid use

THC may help reduce pain which indirectly reduces opioid use

THC may have other unstudied benefits with relation to OUD

If patients didn't use THC, they might use higher doses of opioids

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Patient thoughts:

Does THC help with opioid use?

Yes!

Absolutely!

No doubt!

Then why haven't you cut back on opioid use?

What are your thoughts?

Then why haven't you cut back on opioid use?

Well....

I'd be worse without THC

Addicts need something...

Gateway Drug:

THC was once labeled the "Gateway drug" and shown to increase response to other drugs and increase use of other drugs and ETOH

Current thinking is that THC is the first step for at risk people...

But if THC helps OUD, why do people progress to opioids?

DOES THC USE REDUCE OPIOID USE IN PATIENTS WITH OUD?

No.

Or, at least, not very well.

140 patients using Buprenorphine

60 using THC

4 have used THC to reduce dose of Buprenorphine

Eventually...

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- 2. Increase Retention in Treatment
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Does THC Meet Goals of Treatment?

- 1. Intuitively, Yes
- 2. Intuitively, Yes
- 3. Absolutely Yes
- 4. Absolutely Yes
- 5. No

CONCLUSIONS:

Does THC help OUD?

I think so!

I THINK SO

What do you think?