

Disclosures

· Research: Connections in Recovery

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Goals

- Gain knowledge of the relationship between cannabis and gambling.
- Recognize how the legalization of cannabis is likely to impact gambling and gambling disorder.
- Use best treatment practices to address cannabis use disorders and gambling disorder.

Recent Case at UCLA

- 52 year old male presents for gambling disorder and depression treatment
- Classic presentation
 - Debt
 - Stress / emotional pain
 - Impaired work / home / social functioning
 - Poor Self-Care

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Recent Case at UCLA

- Preferred form of gambling is poker, table games, online and live
- Tobacco, no other substances reported at intake
- Standard treatment doesn't appear to work
 - GA, Therapy, Medications

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Recent Case at UCLA

- After 6 sessions, reveals that he uses cannabis "regularly" but doesn't see it as a problem because "it's just weed"
- · Additional elements
 - Meets criteria for cannabis use disorder
 - Amotivated, emotionally absent
 - Thinks it helps calm him prior to gambling but no evidence that it is "performance enhancing"

Issues Raised

- How did gambling disorder impact cannabis use?
- How did cannabis use impact gambling disorder?
- How should cannabis be addressed in the office and how much time should be spent on this?
- · How many others are out there?

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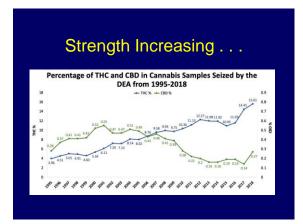
A Few Thoughts on the Current Cannabis Landscape and How it Influences Mental Health 2024 Update

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Terms

- · Cannabis: The whole plant
 - Cannabinoids (hundreds!)
 - THC (Psychoactive)
 - · CBD (Non-psychoactive)
 - · CBG, CBL
 - Terpenes
- · Marijuana: cannabis plant with THC
- Hemp: cannabis plant with <0.3%THC





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CONSIDER ROUTE of ADMINISTRATION | Smoked | Oral | Sublingual/oromucosal | | Time to peak effect | 45-180 minutes | 3-8 hours | 3-8 hours | | Bioavailability | ~30-35% | 6-20% | Slightly higher than oral | | Smoked | Oral | Sublingual/oromucosal |

November 2016- June 2024

- · Cannabis as medicine? or!
- · Medical marijuana
 - 18-21 year old "market"
- · What influences mental health?
 - Unregulated market thrives
 - Increasing strength of cannabis
 - So much "information" and "lived experience"
 - Embedded into daily culture

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Cannabis and Psychiatric Effects

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Cannabis and Psychiatric Effects

- Intoxication
- · Withdrawal
- · Create mental health disorders
 - Cannabis Use Disorder
 - Cannabis-Induced Disorders
- · Exacerbate mental health disorders
 - Depression, anxiety, PTSD . . .
- · Improve mental health disorders

Cannabis Intoxication

- A. Recent use of cannabis.
- B. Clinically significant problematic behavioral or psychological changes (e.g., impaired motor coordination, euphoria, anxiety, sensation of slowed time, impaired judgment, social withdrawal) that developed during, or shortly after, cannabis
- C. Two (or more) of the following signs or symptoms developing within 2 hours of cannabis use
 - 1. Conjunctival injection.
 - 2. Increased appetite.
 - 3. Dry mouth.
 - 4. Tachycardia.
- D. The signs or symptoms are not attributable to another medical condition and are not better explained by another mental disorder, including intoxication with another substance.

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Cannabis Withdrawal

- Cessation of cannabis use that has been heavy and prolonged (i.e., usually daily or almost daily use over a period of at least a few months).
- Three (or more) of the following signs and symptoms develop within approximately 1 week after Criterion A:
 - 1. Irritability, anger, or aggression
 - 2. Nervousness or anxiety.
 - ${\it 3. \ Sleep\ difficulty\ (e.g.,\ insomnia,\ disturbing\ dreams)}.$
 - 4. Decreased appetite or weight loss.
- At least one of the following physical symptoms causing significant discomfort abdominal pain, shakiness/tremors, sweating, fever, chills, or headache.
- 3. The signs or symptoms in Criterion B cause clinically significant distress or impairment in
- The signs or symptoms in characterism to cause unfacilities under injurious expensional, occupational, or other important areas of functioning.
 The signs or symptoms are not attributable to another medical condition and are not better explained by another mental disorder, including intoxication or withdrawal from another substance.

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Cannabis Induced Disorders

· Cannabis intoxication is distinguished from cannabis-induced mental disorders (e.g., cannabis-induced anxiety disorder, with onset during intoxication) because the symptoms are in excess of those usually associated with cannabis intoxication, predominate in the clinical presentation, and are severe enough to warrant independent clinical attention.

Cannabis-Induced Disorders

- · Cannabis-induced delirium
- · Cannabis-induced persisting dementia
- · Cannabis-induced persisting amnestic disorder
- · Cannabis-induced psychotic disorder
- · Cannabis-induced mood disorder
- · Cannabis-induced anxiety disorder
- · Cannabis-induced sexual dysfunction
- · Cannabis-induced sleep disorder

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Cannabis Use Disorder

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Cannabis Use Disorder

- 1. _____ is often taken in larger amounts or over a longer period than was intended.
 2. There is a persistent desire or unsuccessful efforts to cut down or control ______ use.
 3. A great deal of time is spent in activities necessary to obtain _______, or recover from its effects.
 4. Craving, or a strong desire or urge to use ______.
 5. Recurrent ______ use resulting in a failure to fulfill major role obligations at work, school, or home.
 6. Continued _____ use resulting in a failure to fulfill major role obligations at work, school, or home.
 6. Continued _____ use resulting in a failure to fulfill major role obligations at work, school, or home.
 7. Important social, occupational, or recreational activities are given up or reduced because of ______ use.
 9. _____ use is continued despite knowledge of having a persistent or recurrent physical or psychological problem that is likely to have been caused or exacerbated by alcohol.
 9. _____ use is continued despite knowledge of having a persistent or recurrent physical or psychological problem that is likely to have been caused or exacerbated by alcohol.
 9. _____ use its continued despite knowledge of having a persistent or recurrent physical or psychological problem that is likely to have been caused or exacerbated by alcohol.
 9. _____ use its continued use of the same amount of _____.
 1. A need for markedly increased amounts of alcohol to achieve intoxication or desired effect.
 2. _____ analysed by either of the following:
 1. The characteristic withdrawal syndrome for alcohol (refer to Criteria A and B of the criteria set for achieve intoxication of Memory of Mem

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 is taken to relieve or avoid withdrawal symptoms.

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Cannabis Use Disorder (CUD)		
DRUG	LIFETIME RISK OF DEPENDENCE	
Nicotine	32%	
Heroin	23%	
Cocaine	17%	
Alcohol	15%	
Cannabis	9%	

Cannabis as Medicine

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Accepted Therapeutic Use: Cannabinoids

- Dronabinol (Marinol) (synthetic THC)
- Nabilone (Cesamet) (synthetic THC)
- Chemotherapy-induced nausea and vomiting
 Stimulate appetite with wasting syndrome due to AIDS
 Cannabidiol (Epidiolex) (CBD)
- Intractable pediatric seizures (Dravet and Lennox-Gastaut)
 Plant Derived
 Oral liquid

 - Not controlled substance

Nabixmols (Sativex) (THC and CBD)

- Spray
 Muscle Spasticity and neuropathic pain (MS);
 non-USA (UK, Canada)

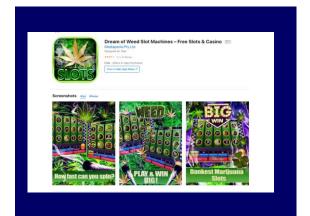
Cannabis and Mental Health: Treatment

There is **scarce** evidence to suggest that cannabinoids **improve** depressive disorders and symptoms, anxiety disorders, attention-deficit hyperactivity disorder, Tourette syndrome, post-traumatic stress disorder, or psychosis.

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How do cannabis and gambling relate to one another?

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Cannabis and Casinos (Considerations)

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Cannabis and Gambling Venues

- · From the operator perspective
 - Managing gambling intoxication
 - Policies, procedures, training required
 - Navigating local, state and federal laws
 - Promote or prohibit cannabis usage?Managing employees (urine testing)
 - Cannabis lounge?
 - Customer demand or forced demand?

Cannabis Money is a No-No

- As state laws and federal laws don't match up on marijuana, gambling industry are unable to accept money from anyone involved in the medical or recreational marijuana industry, whether it's legal in the state or not.
- · Schedule I by-product

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Does Cannabis Increase or Decrease Gambling Behavior?

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Results

- Large, national population survey, Canadians
- Individuals with greater problem gambling severity scores, more hours gambling, and a larger range of gambling activities were more likely to endorse using cannabis.

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Cannabis Impact on Gambling Behavior

- · Cannabis consistently should:
 - Increase impulsivity
 - Increase risk-taking
 - Increase ingestion of other available substances
 - Change perception of time
 - Alter moods
 - Impair decision-making

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How does cannabis use impact gambling behavior?

- Attention / Concentration
 - · Make more errors?
- Risk-taking behaviors
 - · Take more or less?
- Diminish emotional responses?
 - Loss Aversion
- Urges and cravings for gambling

Does gambling increase or decrease cannabis use?

Does gambling lead to cannabis use?

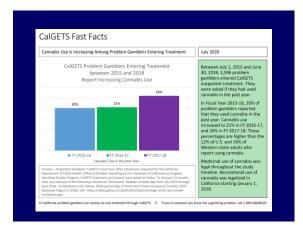
- Most certainly if they are sold together or available together
- Most certainly if they are marketed together to enhance each other's experience (e.g. named products)
- Impact of professional gamblers, gambling role models, online influencers / Twitch Streams

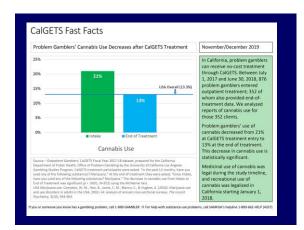
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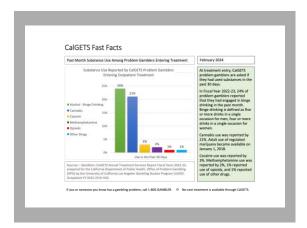
Other questions to consider

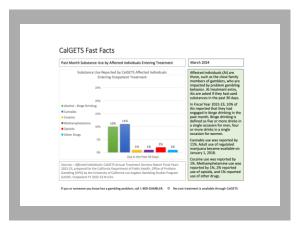
- Impact of cannabis on gambling disorder?
 - Essentially unknown
- Could cannabis treat gambling disorder?
 - What is the basis of this?
 - Target urges / cravings / reward circuitry?











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Clinical Relevance

- Most providers have not received formal training about cannabis
- Recognizing cannabis use vs risky/harmful use is not as evident as with other substances
- Is cannabis being used as a drug or a medication?
- Cannabis and gambling
 - Improve, exacerbate or no effect?

Clinical Roadmap

- Raise knowledge about cannabis trends (how, where, what)
- Screen for cannabis use at intake, annually or when client reports increased emotional distress
 - Cannabis Use Disorder Identification Test
- · Assess for cannabis use disorder
- Watch out for withdrawal

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During the Course of Treatment

- Document cannabis use and impact on course of gambling behavior
 - Help or hurt or unknown?
 - Report these trends to MCPG, NCPG or peers / colleagues
- Monitor cannabis and gambling industry partnerships/ collaborations

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Summary

- Cannabis products are dynamically evolving
- Cannabis and cannabinoids can impact mental health, short-term and long-term
- Earlier onset + frequent use = increased risk for addiction
- Therapeutic potential is behind currently recognized harms





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UGSP Collaborators

- Office of Problem Gambling
- California Council on Problem Gambling
- Telus
- Beit T'Shuvah
- CalGETS Authorized Providers
- Union on Pan Asian Communities (UPAC)
- EPIC

- Friday Night Live (Betting on Our Future)
- Westside Gambling Treatment
- National Council on Problem Gambling
- Kindbridge
- Gambler's Anonymous
- OPG Advisory Board
- BDS Consulting
- Vision Y Compromiso







Q and A	
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