

DISCUSSING CANNABIS USE WITH CLIENTS OR PATIENTS

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SPEAKER DISCLOSURES

✓ I have no conflicts of interest to disclose.

PLANNER DISCLOSURES

The following series planners have no relevant conflicts of interest to disclose; other disclosures have been mitigated.

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OBJECTIVES: PARTICIPANTS WILL BE ABLE TO...

- ...describe rates of cannabis use, particularly among young adults
- ...understand ways in which cannabis use could exacerbate (or be related to) presenting issues in a clinical setting
- 3. ...identify at least one guideline for lower risk cannabis use



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CANNABIS USE – ONSET

- Many routes/means of use:
 - Smoked (joints, bongs, pipes)
 - Vaped (vaporizer)
 - Ingested orally (brewed as a tea, food, edibles)
 - Concentrates (dabbing, hash oil, budder, shatter)
- When smoked/vaped...
 - Effects begin immediately
- · When consumed in food or drink...
 - Effects begin 30-60 minutes

NIDA (2019)



NORMS (and highest misperceptions among those who report use)

Wolfson, S. (2000). Students' estimates of the prevalence of drug use: Evidence for a false consensus effect. *Psychology of Addictive Behaviors, 14*(3), 295–298. https://doi.org/10.1037/0893-164X.14.3.295



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PAST YEAR CANNABIS USE BY AGE GROUP

Source: SAMHSA 2023 National Survey on Drug Use and Health

36.5%

30

25

20.8%

11.2%

Percentage with past year cannabis use

12 to 17 year olds 18 to 25 year olds 26 years and older

Center for Behavioral Health Statistics and Quality. (2024). Results from the 2023 National Survey on Drug Use and Health: Detailed tables. https://www.samhsa.gov/data/report/2023-nsduh-detailed-tables. Released July 30, 2024



CANNABIS USE DATA FROM MONITORING THE FUTURE STUDY (2023 SURVEY)

Cannabis

College students

Past 12 months: 39.5%Past 30 days: 26.1%20+ days/month: 6.3%

Non-college young adults (1-4 years beyond high school)

Past 12 months: 38.9% Past 30 days: 28.8%

• 20+ days/month: 11.6% *** (sign. different from college)

Patrick, M. E., Miech, R. A., Johnston, L. D., & O'Malley, P. M. (2024). *Monitoring the Future Panel Study annual report: National data on substance use among adults ages 19 to 65, 1976-2023.* Monitoring the Future Monograph Series. Ann Arbor, MI: Institute for Social Research, University of Michigan. Available at: https://monitoringthefuture.org/results/annual-reports/ Released July 2024.



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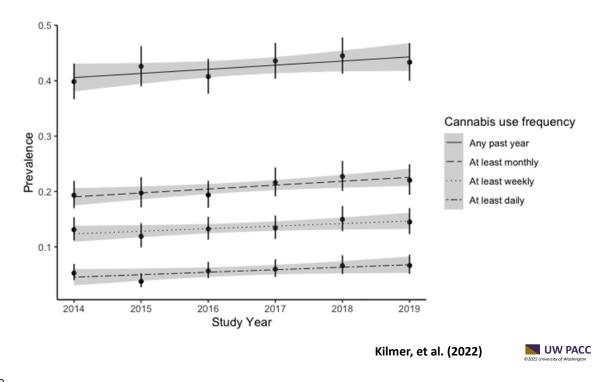
Kilmer, J.R., Rhew, I.C., Guttmannova, K., Fleming, C.B., Hultgren, B., Gilson, M.S., Cooper, R.L., Dilley, J., & Larimer, M.E. (2022). Cannabis use among young adults in Washington State after legalization of nonmedical cannabis. American Journal of Public Health, 112, 638-645.

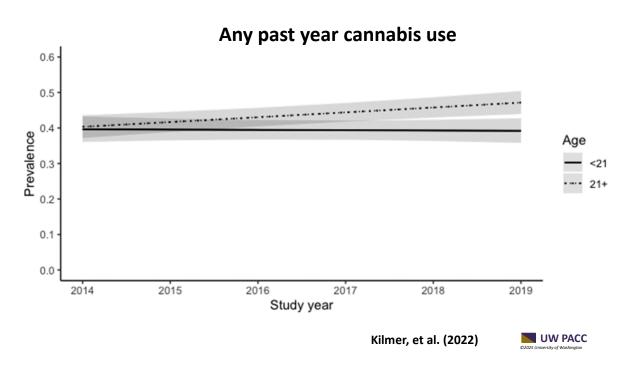
- n=12,963 young adults in Washington over 6 time points
- · Included covariates for:
 - Sex assigned at birth
 - Race
 - Ethnicity
 - Geographic region of the state
 - Age
 - Attending 4 year college
 - Full time employment status
- Applied post-stratification weights to make sample more similar to general population

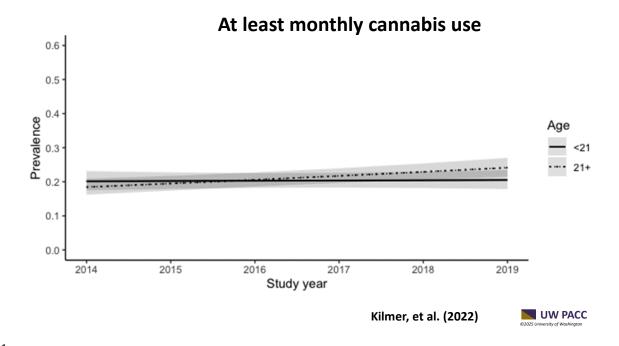
Cannabis Use Among Young Adults in Washington State After Legalization of Nonme dical Cannabis

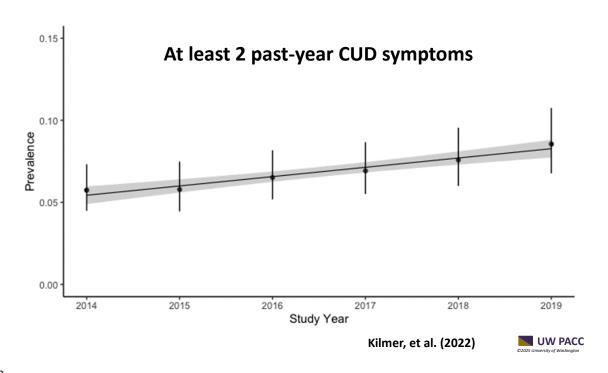
Java R. Kilmer, Ph.D. Book C. Effect, M.D. M.P.R. Kinderico Gammorova, Ph.D. Charles E. Rimbig, M.D. prompts and the programme of t











Considering cannabis use by young adults in the context of high potency cannabis



ElSohly, M.A., Mehmedic, Z., Foster, S., Gon, C., Chandra, S., & Church, J.C. (2016). Changes in cannabis potency over the last 2 decades (1995-2014) – Analysis of current data in the United States. *Biol Psychiatry*, 79, 613-619.

Archival Report



Changes in Cannabis Potency Over the Last 2 Decades (1995–2014): Analysis of Current Data in the United States

Mahmoud A. ElSohly, Zlatko Mehmedic, Susan Foster, Chandrani Gon, Suman Chandra, and James C. Church

ABSTRAC

ABSTRUCTION.

Marijuana is the most widely used illicit drug in the United States and all over the world. Reports indicate that the potentcy of cannabis preparation has been increasing. This report examines the concentration of cannabinoids in illicit cannabis products seized by the U.S. Drug Enforcement Administration over the size 2 decades, with particular emphasis on a³-tetrahydrocannabinol and cannabidio.

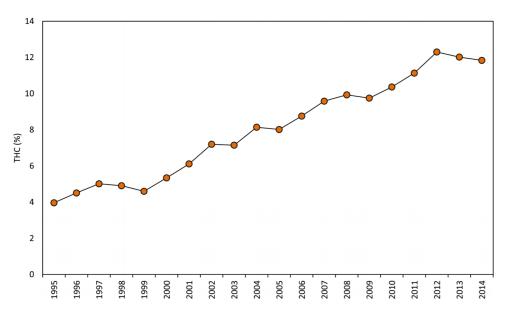
METHODS: Samples in this report were received over time from materials confiscated by the Drug Enforcement.

METHODS: Samples in this report were received over time from materials confiscated by the Drug Enforcement Administration and processed for analysis using a validated gas chromatography with flame ionization detector method

method.

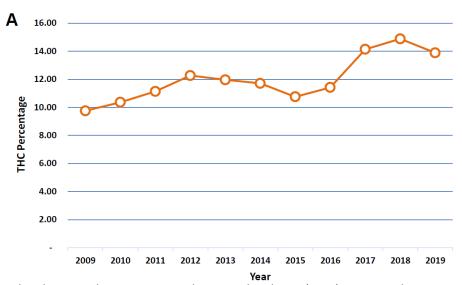
RESULTS: Between January 1, 1995, and December 31, 2014, 38,681 samples of cannabis preparations were received and analyzed. The data showed that although the number of marijuans samples seized over the last 4 years has declined, the number of insissemilia samples has increased. Overall, the potency of illicit cannabis plant material has consistently increased over time since 1995 from ~4% in 1995 to ~12% in 2014. The cannabidol content has decreased on average from ~28% in 2001 to .13% in 2014, resulting in a change in the ratio of Δ*-tetrahydro-content has consistently increased over time since 1995 from ~4% in 1995 to ~12% in 2014 and change in the ratio of Δ*-tetrahydro-content has consistently increased over time since 1995 from ~4% in 1995 to ~12% in 2014 and content has consistently increased over time since 1995 from ~4% in 1995 to ~12% in 2014 and content has consistently increased over time since 1995 from ~4% in 1995 to ~12% in 2014 and content has conten





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ElSohly, M.A., Chandra, S., Radwan, M., Majumdar, C.G., Church, J.C. (2021). A comprehensive revie of cannabis potency in the United states in the last decade. *Biological Psychiatry: Cognitive Neuroscience, and Neuroimaging*, 6, 603-606.

Variation in cannabis potency and prices in a newly legal market: evidence from 30 million cannabis sales in Washington state

Rosanna Smart¹, Jonathan P. Caulkins^{1,2}, Beau Kilmer¹, Steven Davenport¹ & Greg Midgette¹
RAND Corporation, Santa Monica, CA, USA¹ and Heiror College, Camegie Mellon University, Pittsburgh, PA, USA²

ABSTRACT

Aims To (1) assess trends and variation in the market share of product types and potency sold in a legal cannabis retail market and (2) estimate how potency and purchase quantity influence price variation for cannabis flower.

Design Secondary analysis of publicly available data from Washington State's cannabis traceability system spanning 7 Iuly 2014 to 30 September 2016. Descriptive statistics and linear regressions assessed variation and trends in cannabis



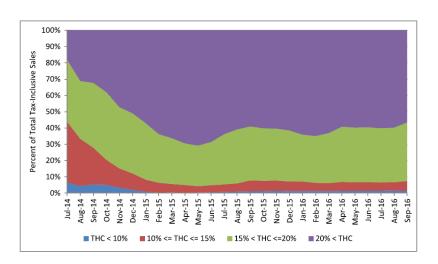


Figure 3 Market shares for cannabis flower products sold, by delta-9-tetrahydrocannabinol (THC) % category. Market share is calculated as a percent of total cannabis flower expenditures (excise-tax-inclusive). [Colour figure can be viewed at wileyonlinelibrary.com]

Smart, R., Caulkins, J.P., Kilmer, B., Davenport, S., & Midgette, G. (2017). Variation in cannabis potency and prices in anewly legal market: Evidence from 30 million cannabis sales in Washington state. *Addiction*, *112*, 2167-2177.



Cash, M.C., Cunnane, K., Fan, C., Romero-Sandoval, E.A. (2020). Mapping cannabis potency in medical and recreational programs in the United States. PLoS ONE 15(3): e0230167. https://doi.org/10.1371/journal.pone.0230167

PLOS ONE

RESEARCH ARTICLE

Mapping cannabis potency in medical and recreational programs in the United States

Mary Catherine Cash 16 , Katharine Cunnane 26 , Chuyin Fan 1 , E. Alfonso Romero-Sandoval $_{0}^{-2}$ $^{\circ}$

- 1 The University of North Carolina Eshelman School of Pharmacy, Chapel Hill, NC, United States of America,
 2 Department of Anesthesiology, Wake Forest University School of Medicine, Winston-Salem, NC, United States of America
- These authors contributed equally to this work.
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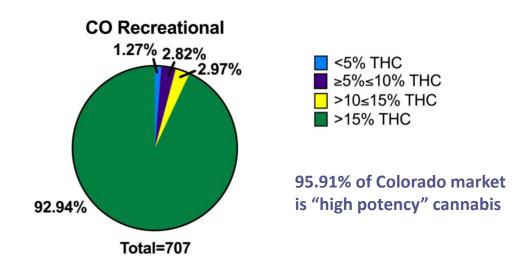
Citation: Cash MC. Cunnane K. Fan C. Romero-

Abstract

Cannabis related online searches are associated with positive attitudes toward medical cannabis, particularly when information is obtained from dispensaries. Since pain is the main reason for medicinal cannabis use, information from dispensary websites has the potential to shape the attitude of pain patients towards cannabis. This is relevant because cannabis

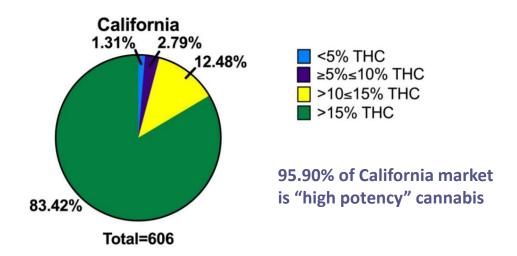


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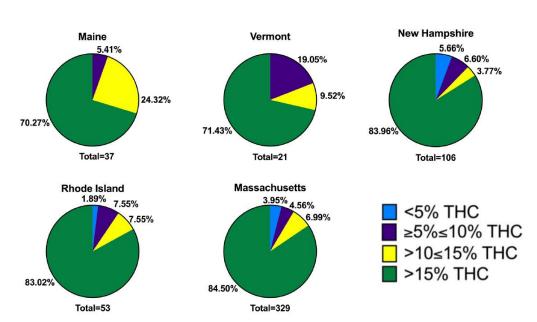
Cash, M.C., Cunnane, K., Fan, C., Romero-Sandoval, E.A. (2020). Mapping cannabis potency in medical and recreational programs in the United States. PLoS ONE 15(3): e0230167. https://doi.org/10.1371/journal.pone.0230167





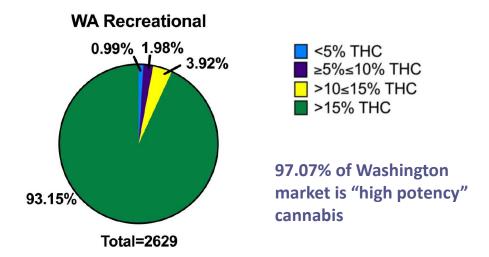
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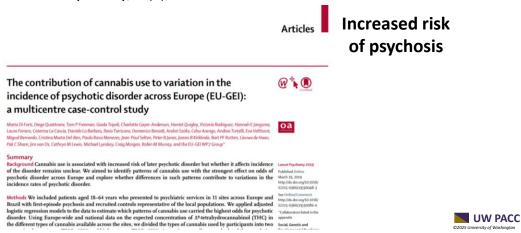


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DiForti, M., Quattrone, D., Freeman, T.P., Tripoli, G., et al. (2019). The contribution of cannabis use to variation in the incidence of psychotic disorder across Europe (EU-GEI): A multicenter case-control study. *Lancet Psychiatry*, 6 (5), 426-436.



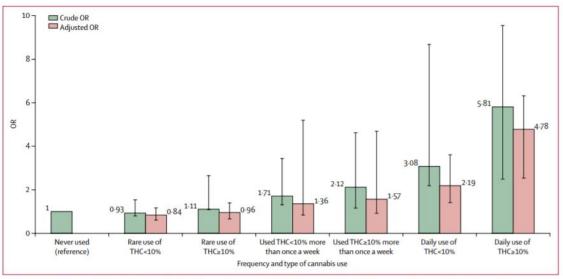


Figure 1: Crude and fully adjusted ORs of psychotic disorders for the combined measure of frequency plus type of cannabis use in the whole sample Crude ORs are adjusted only for age, gender and ethnicity and fully adjusted ORs are additionally adjusted for level of education, employment status, and use of tobacco, stimulants, ketamine, legal highs, and hallucinogenics. Error bars represent 95% CIs. OR=odds ratio.

DiForti, et al. (2019)

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CONCLUSIONS

- 20% of new cases of psychotic disorder "could have been prevented if daily use of cannabis had been abolished (page 433)"
- If high-potency cannabis were no longer available, 12.2% of cases of first-episode psychosis could be prevented
- Numbers for Amsterdam?
 - 50.3% of cases attributed to high potency cannabis

DiForti, et al. (2019)



JAMA Psychiatry | Original Investigation

Association of High-Potency Cannabis Use With Mental Health and Substance Use in Adolescence

Lindsey A. Hines, PhD; Tom P. Freeman, PhD; Suzanne H. Gage, PhD; Stanley Zammit, PhD; Matthew Hickman, PhD; Mary Cannon, PhD; Marcus Munafo, PhD; John MacLeod, PhD; Jon Heron, PhD

IMPORTANCE Cannabis use is consistently linked to poorer mental health outcomes, and there is evidence that use of higher-potency cannabis increases these risks. To date, no studies have described the association between cannabis potency and concurrent mental health in a general population sample or addressed confounding using longitudinal data.

OBJECTIVE TO explore the association between cannabis potency and substance use and mental health outcomes, accounting for preceding mental health and frequency of cannabis use.

DESIGN, SETTING, AND PARTICIPANTS This cohort study used data from the Avon Longitudinal Study of Parents and Children, a UK birth cohort of participants born between April 1, 1991, and December 31, 1992. Present data on outcomes and exposures were collected between June 2015 and October 2017 from 1087 participants at 24 years of age who reported recent cannabis use.

EXPOSURES Self-reported type of cannabis most commonly used in the past year, coded to a binary exposure of use of high-potonsy cannabis or lower potonsy cannabis.

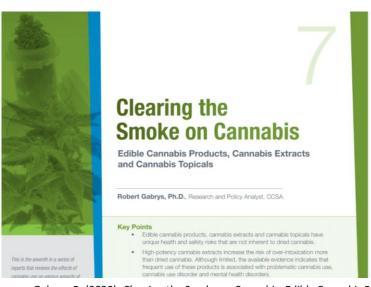
Suppleme

Increased risk of addiction and generalized anxiety disorder

Hines, L.A., Freeman, T.P, Gage, S.H., Zammit, S., Hickman, M., Cannon, M., Munafo, M., MacLeod, J., & Heron, J. (2020). Association of high-potency cannabis use with mental health and substance use in adolescence. *JAMA Psychiatry*, 77, 1044-1051. doi: 10.1001/jamapsychiatry.2020.1035.



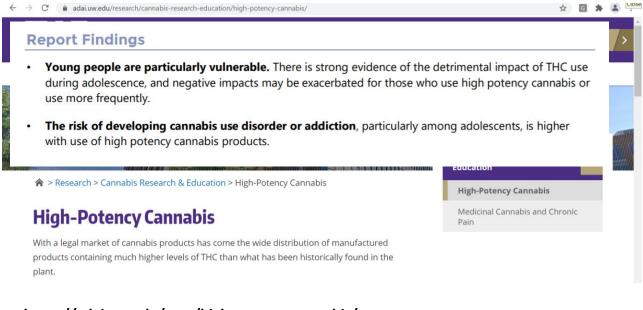
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For concentrates/ extracts, more association with "problematic cannabis use, cannabis use disorder, and mental health disorders." -- Gabrys (2020)

Gabrys, R. (2020). Clearing the Smoke on Cannabis: Edible Cannabis Products, Cannabis Extracts and Cannabis Topicals. Canadian Centre on Substance Use and Addiction.





https://adai.uw.edu/cerp/high-potency-cannabis/



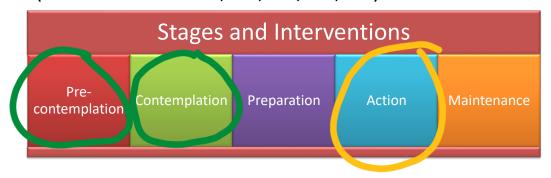
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A really quick detour to talk about motivational interviewing



THE STAGES OF CHANGE MODEL

(PROCHASKA & DICLEMENTE, 1982, 1984, 1985, 1986)

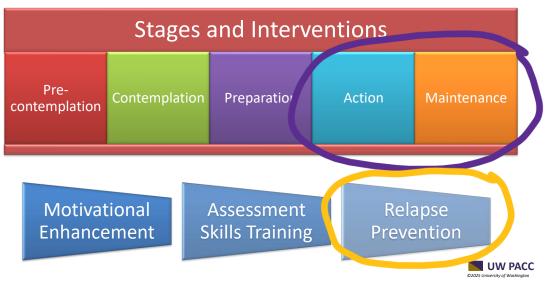


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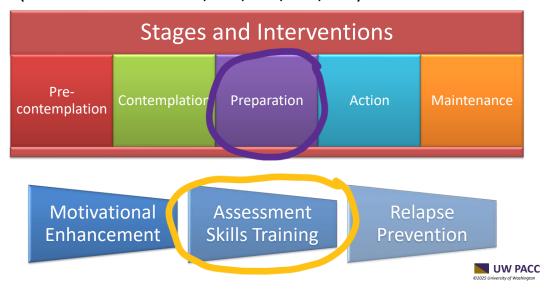
THE STAGES OF CHANGE MODEL

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THE STAGES OF CHANGE MODEL

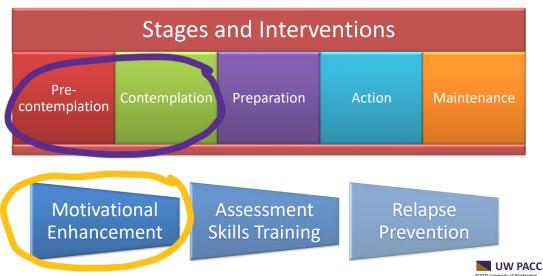
(PROCHASKA & DICLEMENTE, 1982, 1984, 1985, 1986)



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THE STAGES OF CHANGE MODEL

(PROCHASKA & DICLEMENTE, 1982, 1984, 1985, 1986)



Motivational Interviewing Basic Principles

(Miller and Rollnick, 1991, 2002)

- 1. Express Empathy
- 2. Develop Discrepancy
- 3. Roll with Resistance
- 4. Support Self-Efficacy



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Some examples of topics/domains relevant to presenting issues to discuss in the context of a motivational framework

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Impact on attention, concentration, and memory



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Cannabis and cognitive abilities



- Hippocampus
 - · Attention, concentration, and memory
- Research with college students shows impact on these even 24 hours after last use (Pope & Yurgelun-Todd, 1996)
- After daily use, takes 28 days for impact on attention, concentration, and memory to go away (Pope, et al., 2001)
- Hanson et al. (2010):
 - Deficits in verbal learning (takes 2 weeks before no differences with comparison group)
 - Deficits in verbal working memory (takes 3 weeks before no difference with comparison group)
 - Deficits in attention (still present at 3 weeks)



Relationship Between Cannabis Use and Academic Success

 More frequent cannabis use associated with lower GPA, skipping more classes, less current enrollment, and being less likely to graduate on time (Arria, et al., 2013, 2015; Suerken, et al., 2016)

Arria, A.M., Caldeira, K.M., Bugbee, B.A., Vincent, K.B., O'Grady, K.E. (2015). The academic consequences of marijuana use during college. *Psychology of Addictive Behaviors*, *29*, 564-575.

Arria, A.M., Caldeira, K.M., Vincent, K.B., Winick, E.R., Baron, R.A., O'Grady, K.E. (2013). Discontinuous college enrollment: Associations with substance use and mental health. *Psychiatric Services*, *64*, 165-172.

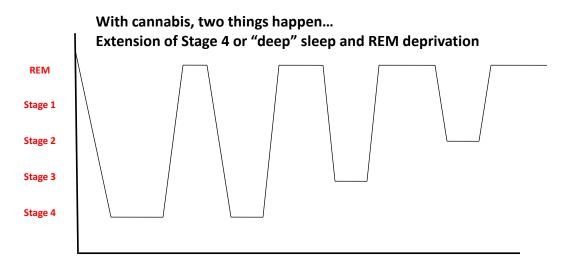
Suerken, C.K., Reboussin, B.A., Egan, K.L., Sutfin, E.L., Wagoner, K.G., Spangler, J. & Wolfson, M. (2016). Marijuana use trajectories and academic outcomes among college students. *Drug and Alcohol Dependence*, *162*, 137-145.



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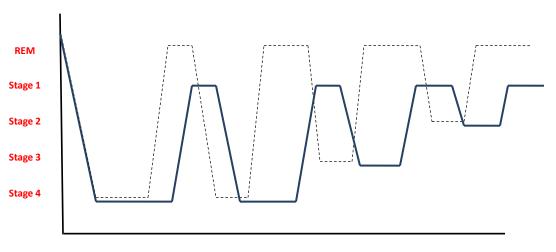
Impact of substance use on sleep quality (and subsequent effects)





Angarita, G.A., Emadi, N., Hodges, S., & Morgan, P.T. (2016). Sleep abnormalities associated with alcohol, cannabis, cocaine, and opiate use: A comprehensive review. *Addiction Science & Clinical Practice*, 11: 9.

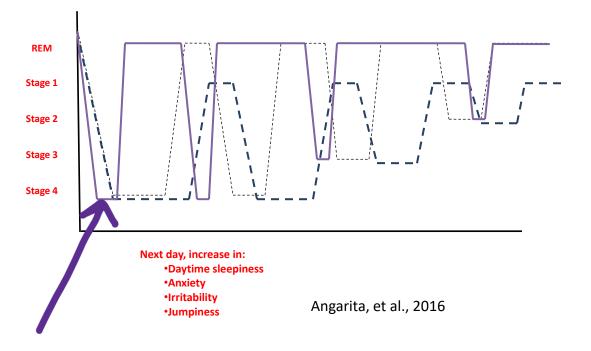
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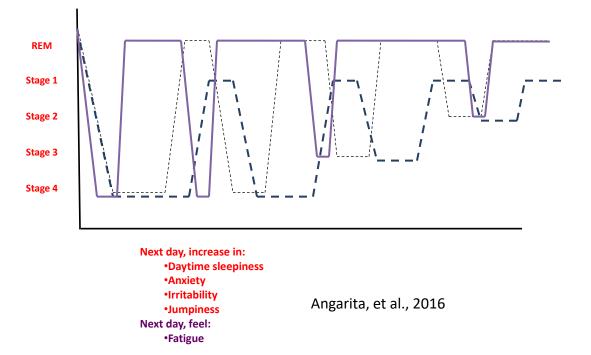


Next day, increase in:

- Daytime sleepiness
- Anxiety
- Irritability
- Jumpiness

Angarita, et al., 2016





Factors associated with health and mental health (not already addressed earlier)



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Cannabis Use Associated With Risk Of Psychiatric

Disorders (Hall & Degenhardt, 2009; Hall, 2009; Hall 2013)

Schizophrenia

- Those who had used cannabis 10+ times by age 18 were 2-3 times more likely to be diagnosed with schizophrenia
- "13% of schizophrenia cases could be averted if cannabis use was prevented (Hall & Degenhardt, 2009, p. 1388)"

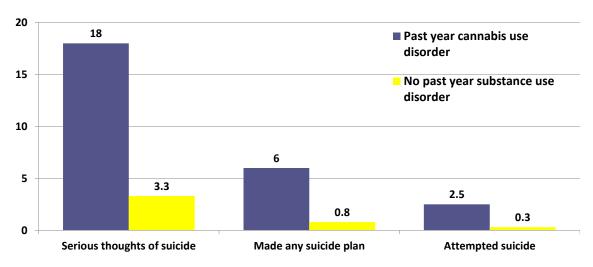


- "Requires attention in cannabis dependent" (Hall, 2013)



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Percentage endorsing item among people 18 and older in the US



Center for Behavioral Health Statistics and Quality. (2024). Results from the 2023 National Survey on Drug Use and Health: Detailed tables. https://www.samhsa.gov/data/report/2023-nsduh-detailed-tables. Released July 30, 2024

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CANNABIS USE – EFFECTS AFTER USE

- With high doses, may experience acute toxic psychosis
 - Hallucinations
 - Delusions
 - Depersonalization
- Seem more likely when person takes too much or potency is high

NIDA (2019)



Separating reported medical use from management of withdrawal



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MOTIVATIONS FOR USE

MOTIVATIONSTON OSE		
Motive Category	Proportion of participants endorsing motive	Proportion of primary motives
Enjoyment/fun Enjoyment/fun (e.o., be happy, get high, enjoy feeling)	52.14%	24.03%
Conformity (e.g., peer pressure, friends do it)	42.81%	16.40%
Experimentation (e.g., new experience, curiosity)	41.25%	29.36%
Social enhancement Social enhancement (e.g., bonding with friends, hang out)	25.71%	8.66%
Boredom (e.g., omething to do, nothing better to do)	25.08%	4.15%
Relaxation (e.g., to relax, helps me sleep)	24.64%	6.97%
Coping (e.g., depressed, relieve stress)	18.14%	5.10%
Availability (e.g., easy to get, it was offered)	13.74%	2.23%
Relative low risk (e.g., low health risk, no hangover)	10.88%	0.95%
Altered perception Altered perception or perspectives (e.g., to enhance experiences, makes things more fun)	10.58%	1.81%
Activity enhancement Activity enhancement e.g., music sounds better, every day activities more interesting)	5.68%	0.80%
Rebellion (e.g., rebelling against parents, thrill of something illegal)	5.21%	0.32%
Alcohol intoxication (e.g., I was drunk)	4.42%	0.47%
Food enhancement (e.g., enjoy good food, food tastes better)	3.79%	0.00%
Anxiety reduction (e.g., be less shy, feel less insecure)	3.31%	0.00%
Image enhancement (Image enhancement) e.g., to be cool, to feel cool)	2.85%	0.32%
Celebration (e), special occasion, to celebrate)	1.26%	0.16%
Medical use (e.g., alleviate physical pain, have a headache)	1.26%	0.16%
Habit (e.g., feeling was addictive, became a habit)	0.95%	0.00%

Lee, Neighbors & Woods (2007)

MOTIVATIONS FOR USE

	Motive Category	Proportion of participants endorsing motive	Proportion of primary motives	
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Coping (includes	Coping (e.o., depressed, relieve stress)	18.14%	5.10%	
when depressed)	Availability (e.g., easy to get, it was offered)	13.74%	2.23%	
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•			Lee, Neigh	©2025 U

WITHDRAWAL: CANNABIS

Diagnostic Criteria	292.0 (F12.288)
 Cessation of cannabis use that has been heavy and prolonged (i daily use over a period of at least a few months). 	i.e., usually daily or almost
B. Three (or more) of the following signs and symptoms develop w after Criterion A:	rithin approximately 1 week
 Irritability, anger, or aggression. 	
2. Nervousness or anxiety.	
Sleep difficulty (e.g., insomnia, disturbing dreams).	
Decreased appetite or weight loss.	
5. Restlessness.	
6 Depressed mood.	
 At least one of the following physical symptoms causing sign abdominal pain, shakiness/tremors, sweating, fever, chills, 6 	
C. The signs or symptoms in Criterion B cause clinically significant social, occupational, or other important areas of functioning.	distress or impairment in
D. The signs or symptoms are not attributable to another medical of explained by another mental disorder, including intoxication or visubstance.	

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Returning to motivational interviewing, especially since motivational enhancement-based brief interventions show promise



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In-person, personalized feedback interventions have shown reductions in use, time spent high, and consequences (e.g., Lee, et al., 2013)

Lee, C.M., Kilmer, J.R., Neighbors, C., Atkins, D.C., Zheng, C., Walker, D.D., & Larimer, M.E. (2013). Indicated prevention for college student marijuana use: A randomized controlled trial. *Journal of Consulting and Clinical Psychology, 81,* 702-709.



Finding potential "hooks": an example

- "What are the good things about cannabis use for you?"
- "What are the 'not-so-good' things about cannabis use?"
- "What would it be like if some of those not-so-good things happened less often?"
- "What might make some of those not-so-good things happen less often?"



When people you're working with want to reduce some of the "not so good" outcomes associated with cannabis, ask what would result in that.

Look, too, toward the published literature on this topic.



International Journal of Drug Policy 99 (2022) 103381



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Review

Lower-Risk Cannabis Use Guidelines (LRCUG) for reducing health harms from non-medical cannabis use: A comprehensive evidence and recommendations update



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General Precaution A:

"There is no universally safe level of cannabis use; thus, the only reliable way to avoid any risk for harm from using cannabis is to abstain from its use."



Among other recommendations:

- · People who use cannabis should use low potency cannabis products
- "Overall, there is no categorically 'safe' route of use for cannabis and each route option brings some level of distinct risks that needs to be taken into account for use. " That said, smoking is particularly risky.
- Keep use occasional (no more than 1 or 2 days a week, weekend only)
- If a person notices impacts to attention, concentration, or memory, "consider temporarily suspending or substantially reducing the intensity (e.g., frequency/potency) of their cannabis use."
- Avoid driving while under the influence (waiting at least 6-8 hours after inhaling, 8-12 hours after use of edibles)

Fischer, et al. (2022)

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Recommendation #9: It is prudent for people who intend to procreate and for women who are pregnant or breastfeeding to abstain from cannabis use towards reducing possible risks for reproduction and of health harm to offspring, respectively. There is some evidence that especially intensive cannabis use may somewhat compromise reproductive abilities for women and men. Cannabis use, especially during pregnancy, may adversely affect some pre- and post-natal health outcomes in offspring. Cannabinoids may also be passed on to infants via breastmilk. The magnitude of any of these adverse effects from these exposures on conception, the fetus or infant development is likely small but it is generally prudent for those intending to reproduce, and for women who are pregnant or breastfeeding, to abstain from cannabis use during these particular periods of risk.

Fischer, et al. (2022)



Recommendation #11: Some specific groups of people are at elevated risk for cannabis use-related health problems because of biological pre-dispositions or co-morbidities. They should accordingly (and possibly on medical advice as required) avoid or adjust their cannabis use. Higher risks for harm extend to individuals with a genetic predisposition (e.g., a first-degree family or personal history) for, or an active psychosis, mood (e.g., depressive) disorder, or substance use disorder.

Fischer, et al. (2022)



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Wrapping up

- Be mindful of "action" stage suggestions to people who might not be there yet
- Let people know what they can expect if they make a change in their substance use (e.g., possible withdrawal)
 - "T Break" Guide from the University of Vermont available to the public:
 - https://www.uvm.edu/health/t-break-take-cannabistolerance-break
- Help your clients/patients understand the recent science relevant to them (and what matters to them)



SLIDES ADDED DURING DISCUSSION



Source: ScienceDaily.com

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Doctors should think twice before prescribing medical marijuana: guideline Source: CTVNews.com

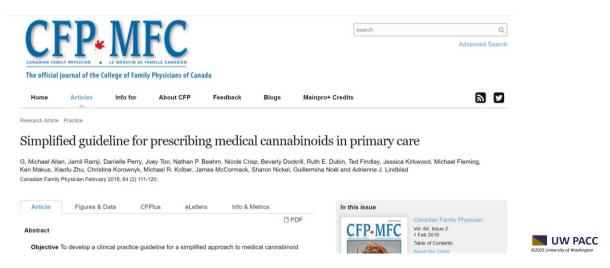
New guideline warns pain benefits of medical cannabis overstated

University of Alberta led guideline warns health risks may outweigh benefits, provides guidance on when (and when not to) prescribe.

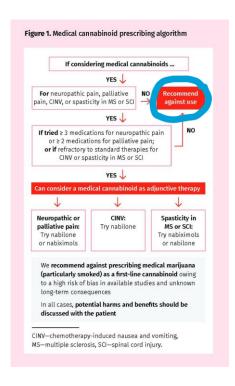
Canadian Doctors Warn Medical Pot Is Overhyped Source: Gizmodo.com



Allan, G.M., Ramji, J., Perry, D., Ton, J., Beahm, N.P., Crisp, N., Dockrill, B., Dublin, R.E., Findlay, T., Kirkwood, J., Fleming, M., Makus, K., Zhu, X., Korownyk, C., Kolber, M., McCormack, J., Nickel, S., Guillermina, N., & Lindblad, A.J. (2018). Simplified guidelines for prescribing medical cannabinoids in primary care. *Canadian Family Physician*, *64*, 111-120.



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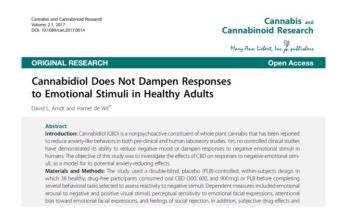
Only are recommending for neuropathic pain, palliative and end-of-life pain, chemotherapy-induced nausea and vomiting, and spasticity due to multiple sclerosis or spinal cord injury...

AND

If tried traditional therapies/treatments first...

Allan, et al. (2018)

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"This study suggests that oral CBD does not alter responses to emotional stimuli, or produce anxiolytic-like effects in healthy human subjects. (p. 112)"

Arndt & de Wit (2017)



Network Open. Original Investigation | Psychiatry Effect of Medical Marijuana Card Ownership on Pain, Insomnia, and Affective Disorder Symptoms in Adults A Randomized Clinical Trial Jodi M. Gilman, PhD; Randi M. Schuster, PhD; Kevin W. Potter, PhD; William Schmitt, BA; Grace Wheeler, BA; Gladys N. Pachas, MD; Sarah Hickey, BSN; Megan E. Cooke, PhD; Alyson Dechert, BA; Rachel Plummer, BA; Brenden Tervo-Clemmens, PhD; David A. Schoenfeld, PhD; A. Eden Evins, MD, MPH **Abstract Key Points** Question What are the risks and IMPORTANCE Despite the legalization and widespread use of cannabis products for a variety of benefits of obtaining a medical medical concerns in the US, there is not yet a strong clinical literature to support such use. The risks marijuana card for adults who seek and benefits of obtaining a medical marijuana card for common clinical outcomes are medical marijuana for pain, insomnia, largely unknown. and anxiety or depressive symptoms? OBJECTIVE To evaluate the effect of obtaining a medical marijuana card on target clinical and Findings In this randomized clinical trial involving 186 participants, immediate cannabis use disorder (CUD) symptoms in adults with a chief concern of chronic pain, insomnia, or acquisition of a medical marijuana card anxiety or depressive symptoms. increased the incidence and severity of

DESIGN, SETTING, AND PARTICIPANTS This pragmatic, single-site, single-blind randomized

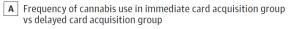
clinical trial was conducted in the Greater Boston area from July 1, 2017, to July 31, 2020, Participants

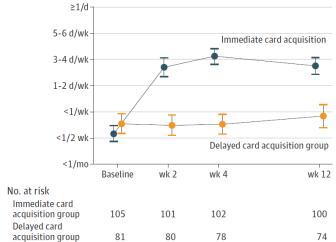
Gilman, et al. (2022) (released 3/18/2022)

cannabis use disorder (CUD) and

resulted in no significant improvement





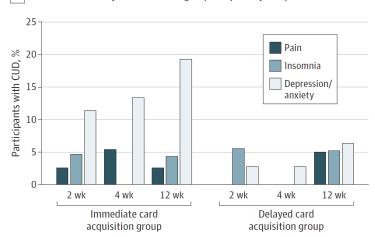


Gilman, et al. (2022) (released 3/18/2022)



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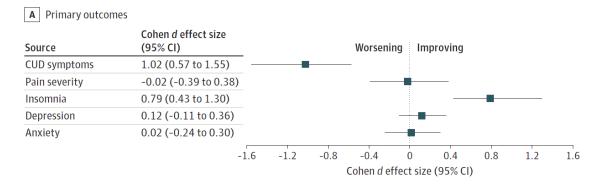
B Incidence of CUD by randomization group and primary complaint



Gilman, et al. (2022) (released 3/18/2022)



Figure 3. Effect Sizes for Primary, Secondary, and Exploratory Outcomes



"There were no observed benefits of obtaining a medical marijuana card for pain, anxiety, or depressive symptoms. (p. 11)"

Gilman, et al. (2022) (released 3/18/2022)



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THANK YOU!

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