**Motivational Enhancement Therapy for Cannabis Misuse: Adaptations** for Youth and Young **Adults with Psychosis** 

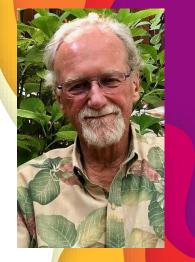
Denise Walker, Ph.D.

### Acknowledgements

- Special thanks to my colleagues
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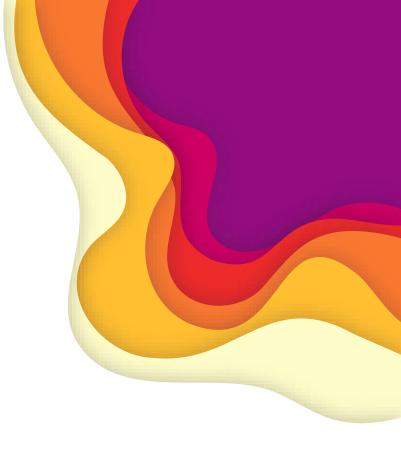






#### Overview

- Cannabis 101 Brief overview
- Cannabis and psychosis risk
- Assessment
- Motivational Enhancement Therapy

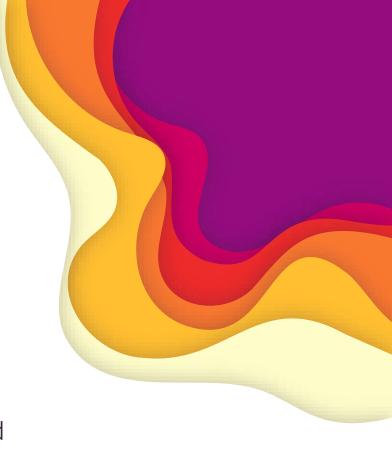


### Cannabis 101



## Cannabis – What are we talking about?

- Cannabis plant includes over 100 cannabinoids
- Delta-9 tetrahydrocannabinol (THC) has psychoactive effect – gets you "high"
- Cannabidiol (CBD) a cannabinoid, commonly sold as supplements or in products since the 2018 Farm Bill passed authorizing the production of hemp
- Delta-8 THC



# Delta-9 Tetrahydrocannabinol (THC)





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# Cannabis Products: Smoking / Vaping





















### **Edibles**

















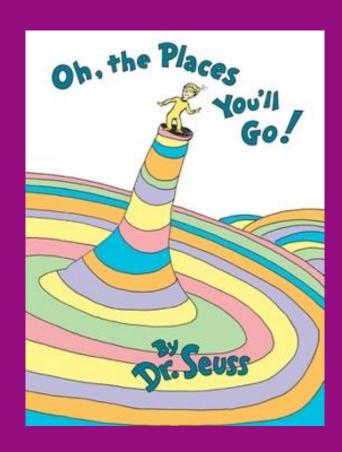


Topicals –
Balms, Lotions,
Transdermals,
Bath Products,
Suppositories





### Oh Cannabis, the Places You'll Go!



### Devices















#### Martha Stewart CBD Products





### **Delta-8 Products**

Highly concentrated Similar psychoactive effect as Delta-9





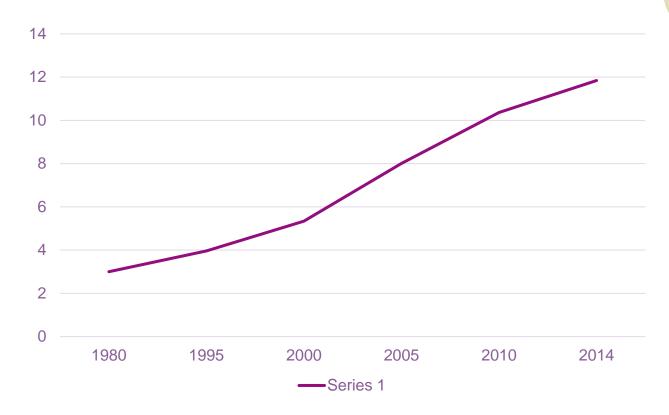


# Poll: What is considered in the research literature as "high potency" cannabis?

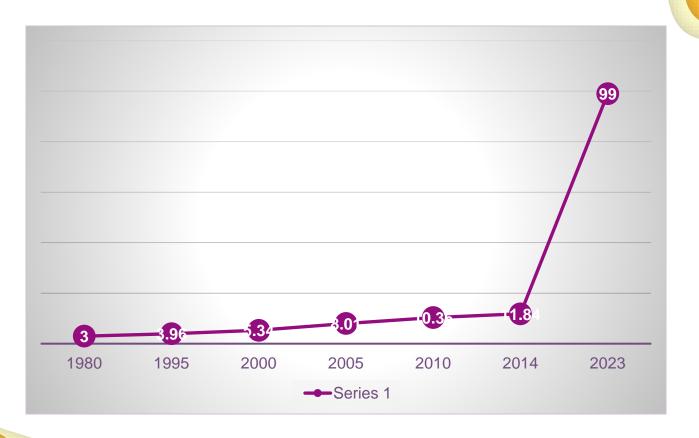
- A) Above 10% THC
- B) Above 30% THC
- C) Above 50% THC



#### Changes in Cannabis Potency



#### Recreational Market Changed Cannabis Potency





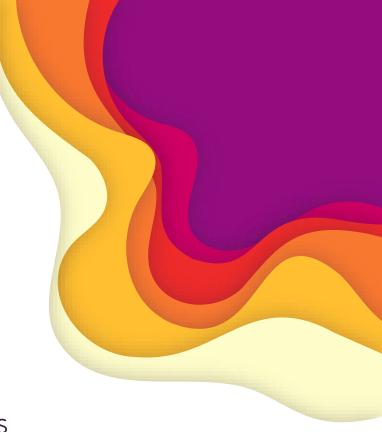






#### Cannabis has Changed

- Explosion of products
- Used to be 3-8% THC potency and mostly flower was consumed
- High THC was considered 10%
- Now products available up to 99%
   THC
- Science has not kept up: Research has largely focused on low THC products
   & availability



## Poll: Is cannabis addictive?

- A) Yes
- B) No



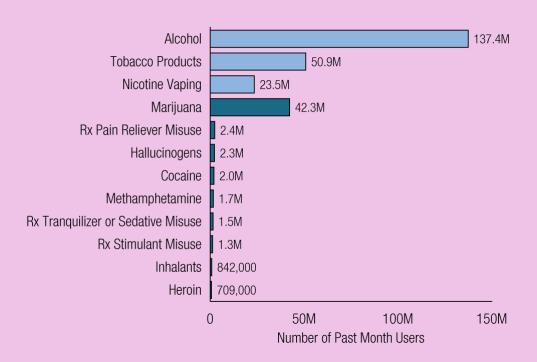
### What about High Potency THC?

- 1 High potency THC is related to increased risk for addiction
  - 2 Increased risk for development of a psychotic disorder (like schizophrenia)
    - Adolescents are particularly vulnerable increased risk of CUD, mental health disorders, and impairs brain development

# Cannabis Hyperemesis Syndrome

- Clinical syndrome consisting of recurrent nausea, vomiting & abdominal pain
- Expensive frequent ED visits, tests, evaluations
- Unrelieved by traditional cyclic vomiting medications
- Temporary relief found in frequent hot showers
- CO found an increase in vomiting related healthcare visits (ED) post legalization (Wang, et al., 2021)

#### Past Month Substance Use: Among People Aged 12 or Older; 2022

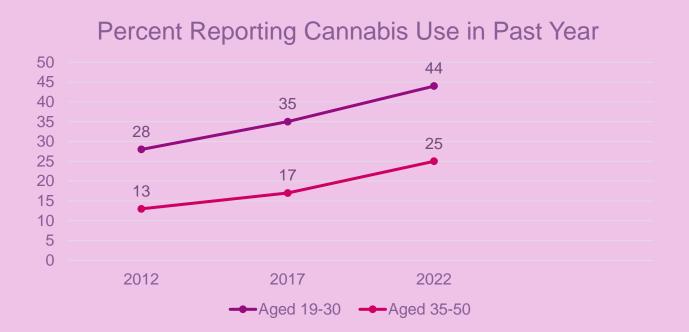


Rx = prescription.

Note: The estimated numbers of current users of different substances are not mutually exclusive because people could have used more than one type of substance in the past month.

Substance Abuse and Mental Health Services Administration. (2023).

#### Cannabis Use is Increasing (MTF, 2024)

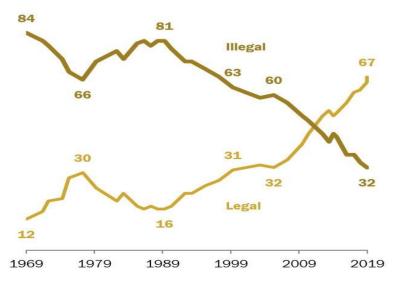


# Support for Cannabis Legalization

In 2022, Pew Research Center found 88% of Americans favored cannabis legalization for either medical or retail use

#### U.S. public opinion on legalizing marijuana, 1969-2019

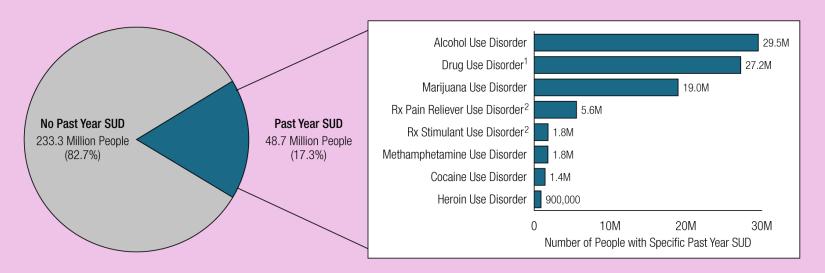
Do you think the use of marijuana should be made legal, or not?



Note: No answer responses not shown. 2019 data from Pew Research Center's online American Trends Panel; prior data from telephone surveys. Data from 1969-1972 from Gallup; data from 1973-2008 from General Social Surveys. Source: Survey of U.S. adults conducted Sept. 3-15, 2019.

#### PEW RESEARCH CENTER

### Past Year Substance Use Disorder (SUD): Among People Aged 12 or Older; 2022



Rx = prescription.

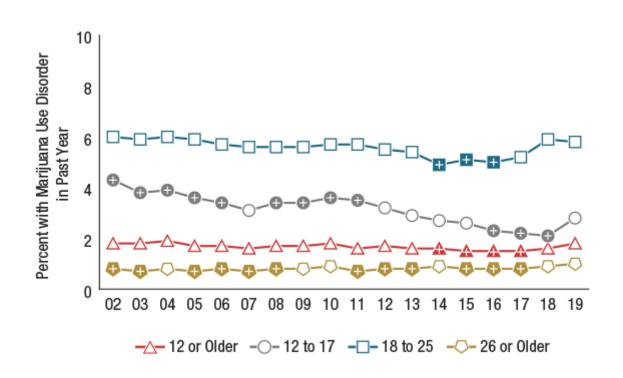
Note: The estimated numbers of people with SUDs are not mutually exclusive because people could have use disorders for more than one substance.

Substance Abuse and Mental Health Services Administration. (2023).

<sup>&</sup>lt;sup>1</sup> Includes data from all past year users of marijuana, cocaine, heroin, hallucinogens, inhalants, methamphetamine, and prescription psychotherapeutic drugs (i.e., pain relievers, tranquilizers, stimulants, or sedatives).

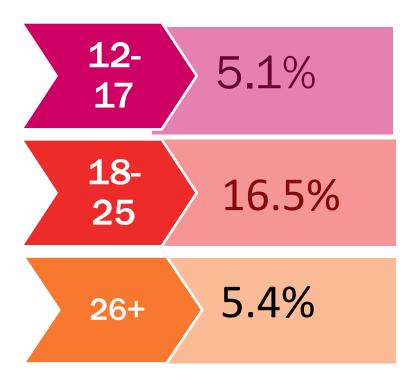
<sup>&</sup>lt;sup>2</sup> Includes data from all past year users of the specific prescription drug.

#### 2020 NSDUH Data: Cannabis Use Disorder Rates over Time

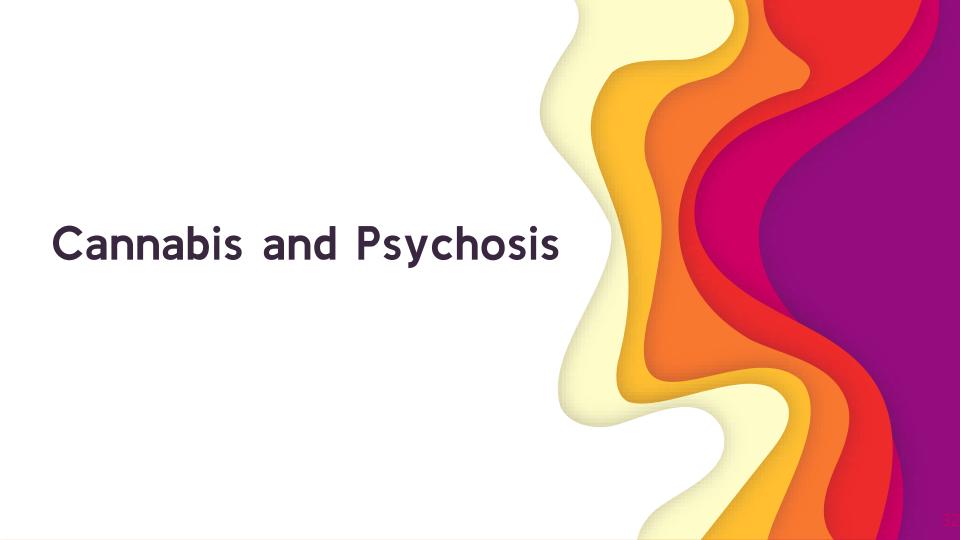


### Rates of CUD by Age Group, 2022

**NSDUH, SAMHSA, 2023** 





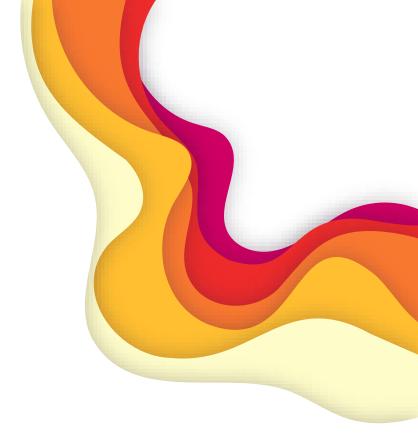


### Delta-9 THC



# Poll: What percentage of young adults with psychosis use cannabis?

- A) 80-90%
- B) 35-45%
- C) 25%



### Prevalence

- 3.7 million Americans have a schizophrenia spectrum disorder
- 70% experience first episode of psychosis before age 25
- 35-45% of young adults experiencing psychosis (YA-P) use cannabis

### Prevalence

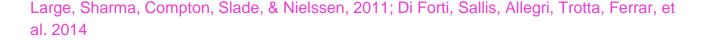
- YA-P and those at risk for psychosis report a greater "high" from cannabis
- 1 in 4 YA-P meet criteria for a cannabis use disorder
  - Rates of CUD in general population of young adults (18-25) was 5% (2019), 2022 is 16.5%

# Development of Psychosis

- Use of cannabis increases risk of psychosis
- Longitudinal and cross-sectional studies
- U.S. and international studies have shown increase in psychotic disorders with higher THC cannabis availability

# Development of Psychosis

Cannabis use lowers the age of onset of psychosis



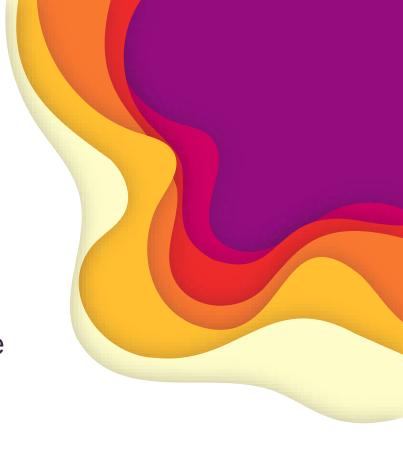
# Development of Psychosis

- Daily high potency cannabis use increases risk of development of psychosis by 5 times
  - Frequent use
  - "High" potency THC



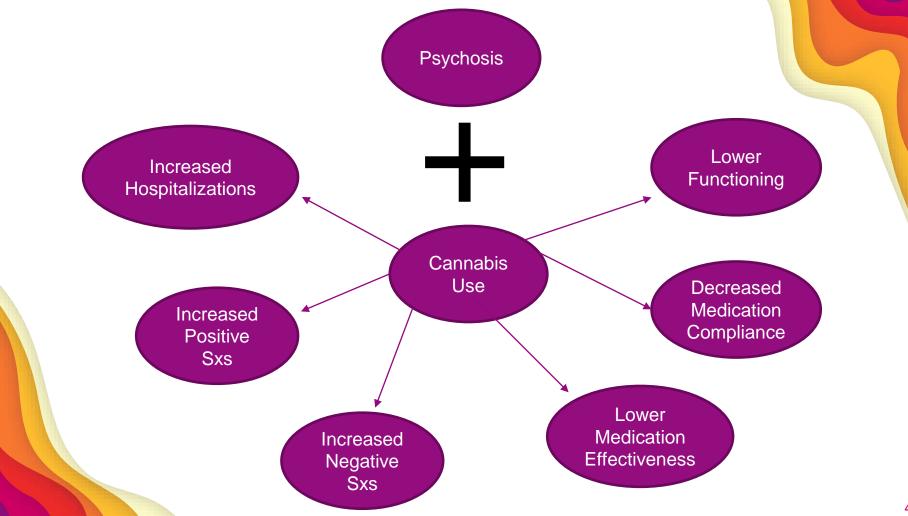
# Cannabis & Psychosis Treatment

- Persistent cannabis use is associated with:
  - More severe positive and negative symptoms
  - Higher rates of relapse and rehospitalizations

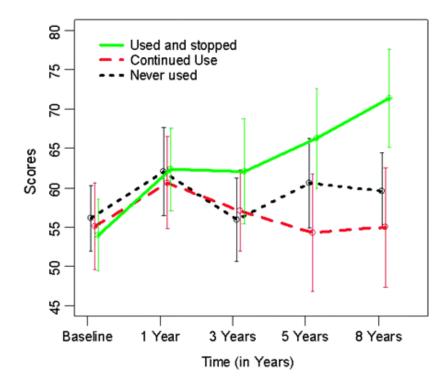


# Cannabis & Psychosis Treatment

- Persistent cannabis use is associated with:
  - Poorer psychosocial functioning and recovery
  - Poorer adherence to antipsychotic medications
  - Increased mental health treatment drop out



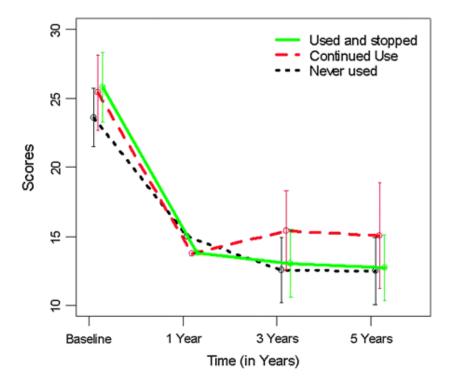
**Fig. 1.** Global Assessment of Functioning (GAF) Outcome by Cannabis Use Group.





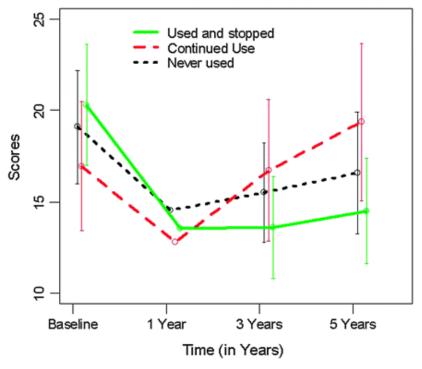
**Fig. 2.** Positive and Negative Symptoms Scale (PANSS) Positive Symptoms Outcome by

Cannabis Use Group.





**Fig. 3.** Positive and Negative Symptoms Scale (PANSS) Negative Symptoms Outcome by Cannabis Use Group.





#### Schizophrenia has no cure

- Lifelong and debilitating condition
- Many who experience schizophrenia-form disorders cannot work
- Relapse is associated with poor functional and psychosocial outcomes
- Costly estimated at over \$37 billion in the U.S.

Experts agree that cannabis is the biggest preventable cause of psychosis relapse

# Need for Cannabis Intervention

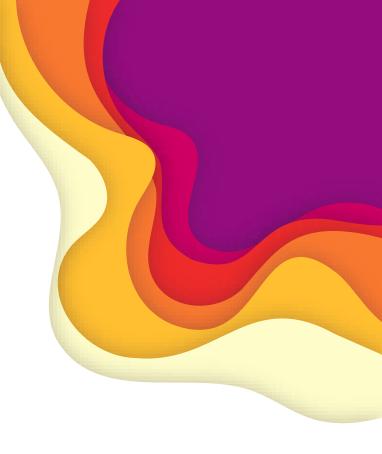
- Urgent need for services to focus on cannabis reduction in this population
- To date, no evidence-based cannabis intervention identified for YA-P
- Providers who treat individuals with serious mental illness feel illequipped to address cannabis
  - More confident to address alcohol
  - More evidence-based educational materials are needed specifically for cannabis

#### **Cannabis Treatment**

- 30-year history of cannabis intervention studies
- Several studies have focused on nontreatment seekers
- Motivational Enhancement Therapy most studied intervention

#### **Cannabis Treatment**

- MET
- Cognitive Behavior Therapy
- Contingency Management
- MET + CBT + CM
- Adolescents: Family Therapy



#### Motivational Enhancement Therapy (MET)

Length

Delivery

Style

Content

Principles

1-4 Sessions

In-Person, Phone, Computer

Motivational Interviewing

Review of **Personal Feedback Report**, which includes:

- Normative Data
- Summaries of
  - Recent patterns of behavior
  - · Consequences
  - · Risk Factors
  - · Personal Goals

To facilitate a candid exploration of his/her substance use or behavior, including:

- Costs & Benefits
- · Comparison with others
- · The impact on goals and relationships

## **Motivational Enhancement Therapy**

Pre-Tx

Utilized in opportunistic settings and in check-up models to attract non-treatment seekers

TX

As treatment or as a component for tx in combination with CBT and /or Contingency Management

Posttx Maintenance or aftercare following treatment or brief intervention

#### **Need for Cannabis Intervention- MET**

- Motivational enhancement therapy has been shown to be effective with adolescents, college students, and adults
- Applied to pre-treatment, treatment and maintenance
- Has not been tested among YA-P

#### Why the disconnect?

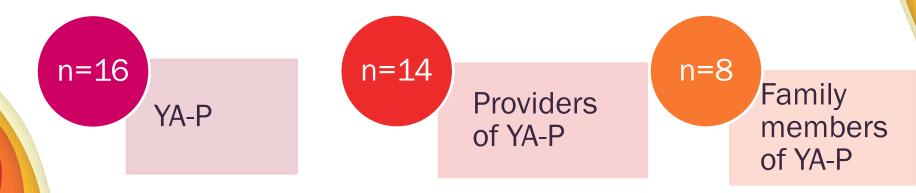
- Cannabis intervention among psychosis populations has failed to demonstrate robust efficacy
- Interventions tested were MI vs. MET
- Outcomes were often abstinence-based vs. harm reduction

#### **Qualitative Study**

- Aim was to inform the development/adaptation of a combined cannabis intervention to reduce cannabis use among young people with psychosis
- Intervention would involve an individual intervention for YA-P and skills training for family members of YA-P
- We asked what facilitated and what got in the way of talking about cannabis

#### **Qualitative Study**

We conducted 8 focus groups



#### Intervention Implications

- Science-based psychoeducation on risks of cannabis use to psychosis maintenance, relapse and rehospitalization
  - Counseling style should be nonconfrontational, non-judgmental and supportive; Intervention individualized
    - Harm reduction strategies emphasized (low THC, less use) for those not ready to quit

# Cannabis Assessment

#### Challenges

- No standardization of dose
- Alcohol: 12 oz beer = 5 oz of wine =
   1.5 oz of spirits
- Edibles 10mg of THC = 1 dose
- Variety of products, methods of administration, and THC content
- Regulated market can make this easier with labeling

#### **US Standard Drink Sizes**











1.5 ounces 40% (80 proof) ABV distilled spirits (gin, rum, vodka, whiskey, etc.)

ABV = Alcohol by Volume

#### Cannabis Assessment

- For individuals experiencing psychosis any use incurs risk
- Conversational approach ask details about:
  - Products
  - Administration
  - Frequency/quantity
  - Hours high
  - Consequences

#### Conversational ApproachUse Open Questions

- Use open-ended questions
  - "Tell me about your cannabis use."
  - "How does cannabis fit into your week?"
  - "On a day that you use, walk me through from morning to night, what that looks like."
  - "How and what do you prefer to use?"
  - "Describe for me the how, how much, and how often of your use."

#### Conversational Approach - Tailored

- Sometimes closed questions work better for certain clients
  - Products
    - "What products do you typically use?"
  - Administration
    - "How do you use your cannabis? Smoke, vape, dab, eat?"
  - Frequency/quantity
    - "How often do you use?"
  - Hours high
    - "When you use, how many hours out of the day are you high?"

#### Cannabis Use Disorder Identification Test -Revised

- Screening measure similar to the AUDIT
- 8 items, self-administered
- Items on: use frequency,
  hours high, not able to stop,
  causing problems, time
  spent using/high, thinking
  about cutting down, using
  in dangerous situation, etc.

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#### **Cannabis Intervention**

Motivational Enhancement Therapy



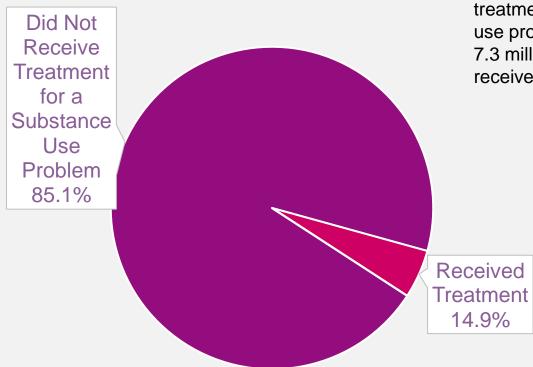
## What is the most common struggle regarding cannabis and your patients?

- A) Motivation they don't think their cannabis use is a problem
- B) I'm not sure how to help patients stop or reduce cannabis
- C) Lack of appropriate referral resources to substance abuse clinics
- D) Other





#### Substance Abuse Treatment Need in U.S. NSDUH 2023

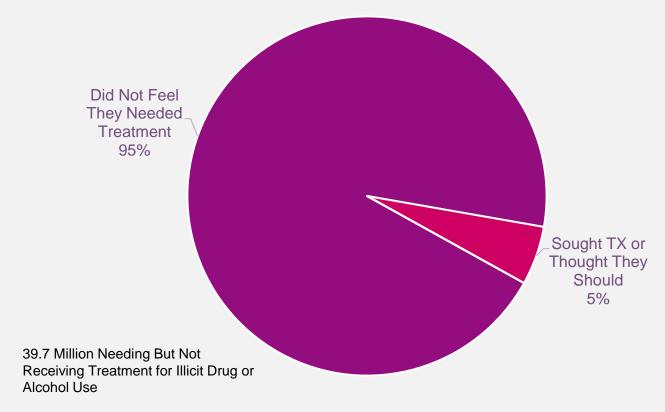


48.7 million persons aged 12 or older needed treatment for a substance use problem.

7.3 million persons received treatment

#### Perceived Need for Treatment

**NSDUH, 2023** 





#### The Challenge:

 This suggests the need to develop and market interventions that:

- Reach more people
- Increase motivation for change
- Encourage treatment entry when appropriate

### **Motivational Enhancement Therapy** (**MET**)

Length 1 to 4 Sessions

Delivery In-Person, Phone, or Computer

Style Motivational Interviewing

## **Motivational Enhancement Therapy** (**MET**)

#### Content

Review of Personal Feedback Report, including,

- Normative Data
- Summaries of...
  - ✓ Recent patterns of behavior
  - √ Consequences
  - ✓ Risk factors
  - ✓ Personal goals

## **Motivational Enhancement Therapy** (MET)

#### **Principles**

To facilitate a candid exploration of his/her substance use or behavior, including,

- Costs & benefits
- Comparison with others
- The impact on goals and relationships

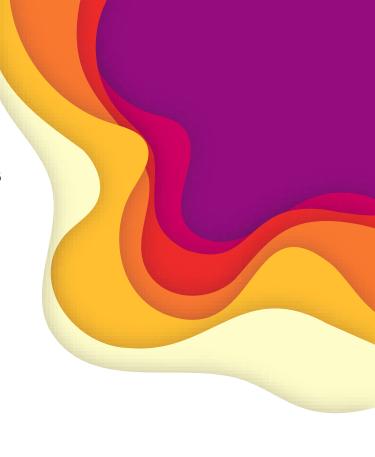
### Teen Marijuana Check-Up



In-School MET Intervention Individual No Pressure, Sessions No Judgment **Erase Barriers** Computerized **Not Treatment** Assessment No Parental Brief Consent Required

#### Does it Work?

- 5 trials conducted
- Adolescents will volunteer to participate in a cannabis intervention (700+ teens over 5 trials)
- Can attract a heavy using sample
- Treatment naive
- High levels of:
  - Cannabis abuse and dependence
  - Clinical severity samples look similar to tx studies
- MET reduces cannabis use more than Education or a Delayed control condition
- Engagement in abstinence based tx was low



#### What does it look like?

- Teen Marijuana Check-Up example
- Assessment
- 2 Intervention Sessions
  - Motivational Interviewing (MI)
  - MI + Personalized Feedback

# Motivational Interviewing

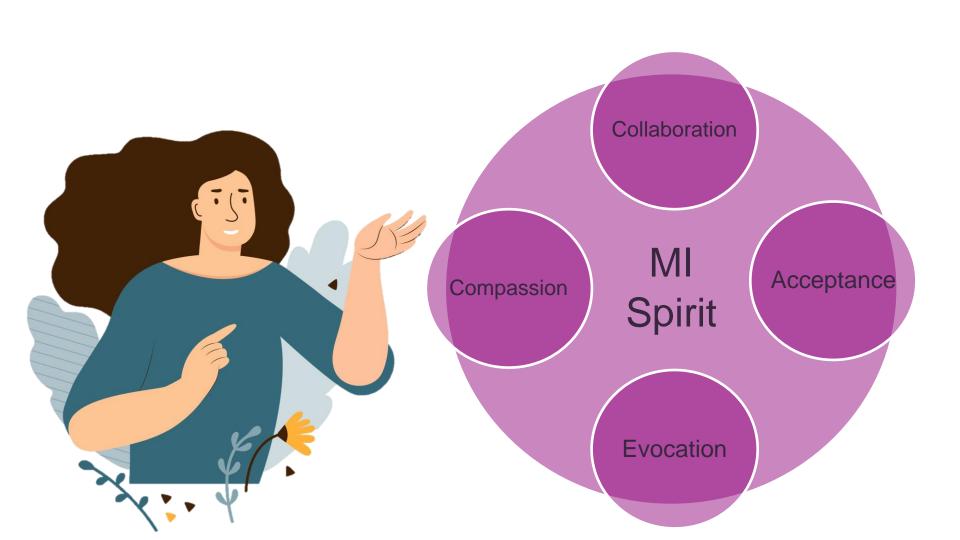
Review



### Motivational Interviewing in a Nutshell

- MI is a way of communicating that enhances motivation to change.
- People tend to be more motivated by what they hear themselves say.
- MI is interested in hearing the client voice their own personal reasons for change.





#### **PARTNERSHIP**



Both the client and the counselor bring expertise to the interaction

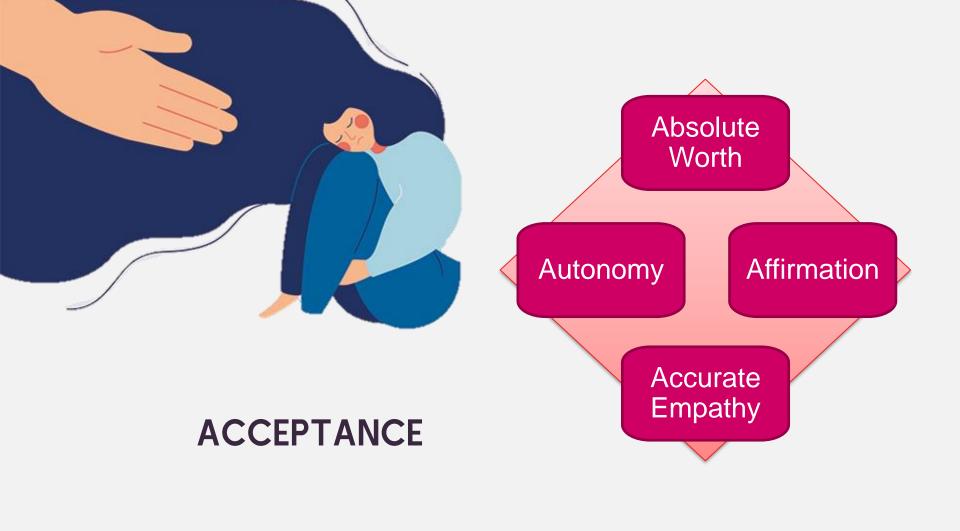


In MI, we don't assume we have all the answers.

#### **EVOCATION**

"You have what you need, and together we will find it."





#### **Affirmation Activity**

- Think of someone who you really appreciate.
  - Maybe someone who has provided support or encouragement, tangible help, or just modeled an attitude or attribute that you would like to emulate.

 Take 2 minutes to text that person and affirm a quality of theirs that you appreciate.

#### MI Spirit

Thinking about the "spirit" of MI –
Collaboration, Evocation,
Affirmation and Acceptance,
identify one or two things you
are already doing in your work.

 How do you demonstrate collaboration, evocation, affirmation or acceptance to your clients?



#### Fundamental MI Skills - OARS



Open-Ended Questions

Affirm

Reflection

Summary

#### **Open Ended Questions**

- Questions that can't be answered with yes/no, or one word
- Ask for elaboration
- Invite conversation on a particular topic

"Tell me more"

 Explore – values, behaviors, consequences, ideals, successes, goals, beliefs, experiences, feelings "Tell me about your use"

"Have you been in treatment before?"

"Does your cannabis use make your psychosis worse?"

"Do you you use edibles or vape products?"

"Do you drink or use drugs?"

"Do you know that cannabis is related to rehospitalization?"

"Have you been in treatment before?"

"Tell me about your tx experiences?"

"Does your cannabis use make your psychosis worse?"

"How does your cannabis use affect your symptoms?"

"Do you use edibles or vape products?"

"What types of cannabis products do you use?"

"Do you drink or use drugs?"

"Tell me about your substance use"

"Do you know that cannabis is related to rehospitalization?"

"What do you know about the risks of cannabis for psychosis?"

#### **AFFIRM**

Seeking every opportunity to highlight the person's strengths, positive qualities, and actions

- Past successes
- Struggles and desires
- Current or past efforts to improve things
- The humanity, character, spirit of the client



#### **Affirmations**

 Special form of reflection that emphasizes strengths

- Builds self-efficacy, orients people to their resources
- Must be personal and genuine
- Acknowledge client's efforts
- Appreciation of client's attributes, effort, perseverance, showing up



#### Affirmation examples

Demonstrate hope, support, or caring

"You're in a really rough spot."

Show appreciation for values

"You value honesty and hiding your use doesn't feel honest."

Recognize strengths

"You care deeply about your family."

Reinforce behaviors, successes, or intentions

"Even though it is scary, you're determined to find work."

#### **Journal**

Think of a time when you were recognized for something you did or just the way you are - and it was unexpected.

What did the person say and how did it make you feel?





Intent is to accurately understand

Interest in what the client has to say

Makes a guess at what you think the person means

Can amplify meaning or feeling

Continuing the paragraph – can make a guess as to what you think the client would say next.

Reflective Listening: Foundational Skill





You're tired.

You want to learn MI?

You want to learn MI.

#### Levels of Reflection

Simple

- Repeat or restates
- Adds little or nothing to what has already been said

Complex

- Adds some meaning or emphasis to what a person has said
- Guesses at the unspoken



#### "I have been anxious lately. I keep trying things other than smoking to help myself feel better, but nothing seems to work except weed."

Smoking helps your mood.



**SIMPLE** 



You're working hard to solve this problem. You'd like to be able to feel more like yourself without weed. You're a little worried that might not be possible.

Cannabis is the ONLY way for you to feel less worried.





**DOUBLE-SIDED** 

Smoking feels like it helps your mood and at the same time, you wish there was something else that worked.

#### Change-Talk



- Specific to MI
- Any statement a client makes in favor of change
- Opposite is "sustain talk" –
   statements made in favor of
   staying the same
- Expresses advantages for change, optimism for change, disadvantages of staying the same
- Desire, ability, reasons or need for change
- Willingness or intention to change

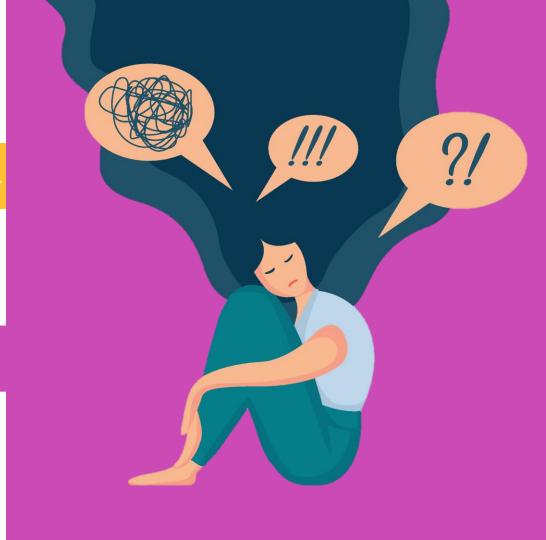
### Change-Talk in the Context of Psychosis

How is cannabis getting in the way of...

- functioning,
- life goals
- immediate goals?

Change talk for cannabis can be centered on interest or desire for...

- learning coping skills
- being more social or
- avoiding rehospitalization



#### Change Talk

You are looking for change talk throughout any MI interaction.

I don't like how weed makes me less social. I was using so much, that I was just checked out for everything.

I want to be less paranoid I'm not ready for treatment but I could start using only at night.

I need to find a way to sleep without using.

#### **Evoking Strategies for Change Talk**

Asking Open-ended Questions **Evocative Questions** Using The Importance Ruler Using the Confidence Ruler Elaborating **Querying Extremes** Looking Back/ Looking Forward **Exploring Goals and Values** 



## Create 1 question and 1 reflection that will evoke change talk for one scenario.

"I really don't want to stop smoking, but I know I should. I've tried before, and it's really hard."

"Cannabis is like the one thing that I enjoy. With my symptoms, I just don't find a lot of other things fun. I can smoke and forget my problems. It's an immediate fix. Problems are still there when the high wears off, but it's fun in the moment."

"Before my hospitalization, I was using the really strong stuff and going way overboard on it. But now I use a lot less and I don't think it affects my symptoms as much."



#### Met Session 1 Engaging





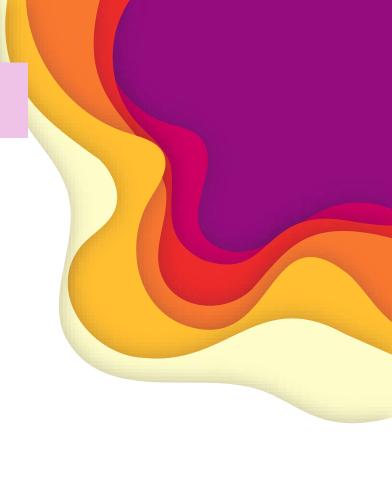
#### **Rapport Building, Understanding Use**

Today, I'd like to learn from you in your own words what your experiences have been like using cannabis. It's often different for different people and I'm curious how cannabis fits into your life.

Therapist: What got you interested in talking about your marijuana use?	Open Ended Question
Student: I was trying to quit last month because of football, but I couldn't. And then I heard about this project and was interested. I am curious about how people stop and I want to learn more information about marijuana	
T: It was a combination of curiosity and worry	Reflection
S: Yeah, I chose this because I'm worried about school and basketball season starting now and need to do something about it	
T: You are a thoughtful person and you really care about your performance in sports and school	Reflection/ affirmation
S: I'm just so off when I smoke and I can't play right and my grades go down. I can't concentrate	
T: You're really wanting to be sharper and you get frustrated that marijuana is getting in the way	Reflection
S: It seems so obvious. You can tell, "he's way off" and that's the reason why and yet I'm still smoking.	

# Case Study - Demographics

- 22 y/o cisgender female
- Partnered
- In early psychosis program
- First episode of psychosis at 20
- History of depression and anxiety in childhood
- Chaotic upbringing
- High school degree



# MET Session 1 Engaging

- I'm curious how you started using cannabis?
- What has changed since you started?
- Tell me about some of the things you get from using.
- How about the other side? What aspects of cannabis don't you like?

### What are you listening for?

#### Change Talk!

- Specific to MI
- Any statement a client makes in favor of change
- Opposite is sustain talk statements made in favor of staying the same
- Expresses advantages for change, optimism for change, disadvantages of staying the same
- Desire, ability, reasons or need for change
- Willingness or intention to change
- Specific to the change goal



# MET Session 1 Digging for Change Talk

#### Directive probing for motivation/change talk

- Develop Discrepancies "You've mentioned that school is really important to you and that cannabis really impacts your memory and concentration. I'm curious how your use has impacted your performance at school."
- Reflect Ambivalence "You enjoy the effect weed has on you of making you feel more comfortable, not as anxious in social settings. And at the same time, you've noticed feeling more like you "need" weed these days and that doesn't feel great to you. Tell me more about that."

## MET Session 1 Exploring Values

- What is important to the client?
- Connect what the client values with cannabis use

I feel so guilty when I lie to my parents

You want to be an honest person and pot is getting in the way



I want to set a good example for my little brother

You don't want your little brother to think it's ok for him to use cannabis

### MET Session 1 Looking Back

What has changed since you started using regularly?



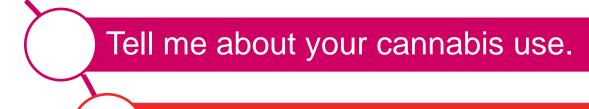
### MET Session 1 Envisioning the Future

How do you see your life next year if you continue to use cannabis every day?

Right now you feel comfortable with your cannabis use. What might be warning signs that you might want to make a change?

### MET Session 1 Enhance Self-Efficacy

- Evocative Questions
  - "How has it gone when you've tried to guit in the past?"
  - "Has there ever been a time when you've taken a break? How did that go?"
  - "You're clear that when you're a mom, you don't want to smoke. I know that's far in the future, but how will that change happen?"
- Affirmations
  - "You have a lot of experience with what works and doesn't when you've tried changing in the past."
  - "You've really been thoughtful about how you want to limit your use."
- Social Support
  - "Who will you look to for support when you make this change?"
  - "How will they respond and how will they help?"



What do you like about using?

# Possible Outline for Session 1

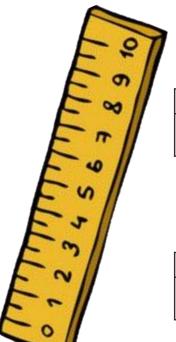
What are the not so good things?

What have you noticed about how cannabis affects your psychosis symptoms?

What might be some benefits to reducing your use?

How confident are you that you could make a change if you wanted, on a scale of 1-10?

# Rulers: A tool for identifying motivation to change.



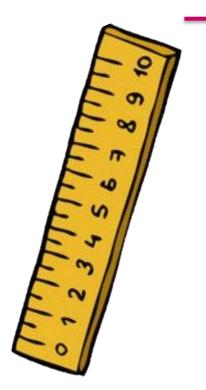
**Importance**: "On a scale from 0-10, how important is it to make this change?"

1	2	3	4	5	6	7	8	9	10
Not at all									Extremely
important									Important

**Confidence**: "On a scale of 0-10, how confident are you that you could make this change if you decided to?"

1	2	3	4	5	6	7	8	9	10
Not at all important									Extremely Important

### Rulers: Explore Further



#### <u>Confidence – possible follow-up questions:</u>

"What is there about you (strengths, abilities, talents) that would help you do this?"

"How might you go about it in order to succeed?"

"What have you done successfully in the past that was like this in some way?"

#### **MET Session 2**

- 1) Rapport building
- 2) Reflections on last session
- 3) Review the personalized feedback report (PFR)

## The Check-Up

PERSONALIZED FEEDBACK
REPORT

Survey date: August 8<sup>th</sup>, 2023

Review date: August 11<sup>th</sup>, 2023

#### Your Past Cannabis Use

Here is what we learned about your cannabis use.

- 1 You first tried cannabis when you were years old
  - 24.34 % of 17 year-olds also tried cannabis\*.



2 You started using cannabis regularly when you were 21 years old.

<sup>\*</sup> Based on data from the National Survey on Drug Use and Health (NSDUH). Data can be found at: <a href="https://nsduhweb.rti.org/respweb/homepage.cfm">https://nsduhweb.rti.org/respweb/homepage.cfm</a>. Data collected for ages 12 and up, 2021 results are most recent.

# Giving Information

Ask Give

Ask

## **Asking Permission**



- Get permission prior to providing information
- Obtaining permission first can also be useful when a client asks for information
- Use autonomy-support language
  - Useful for sharing information about common responses to trauma, adaptive coping, services available....
  - Example:

"What you do with this information is up to you..."

#### Your Current Cannabis Use

In the past 30 days, on average you used cannabis days per month.

Here's how often other people your age across the country have used cannabis in the last 30 days\*:

- 75.66 % did not use cannabis
- 3.82 % used cannabis 1-2 days
- 2.98 % used cannabis 3-5 days
- 1.17 % used cannabis 6-9 days
- 15.45 % used cannabis 10+ days

<sup>\*</sup>Based on data from the National Survey on Drug Use and Health (NSDUH). Data can be found at: <a href="https://nsduhweb.rti.org/respweb/homepage.cfm">https://nsduhweb.rti.org/respweb/homepage.cfm</a>. Data collected for ages 12 and up, 2021 results are most recent.

#### Use at School, Work, or Treatment









During the past 60 days:

On average you used cannabis:

- 57 days before school or work
- 50 day during school or work
- 57 days before a mental health treatment appointment

#### Money Spent



In the last month you spent \$ 40 on cannabis.

That's \$ 480 per year.

You might be spending the money you'd otherwise spend on cannabis on:













Movies Concerts Take Out Coffee Clothes Tech

#### Consequences of your Cannabis Use



#### These are the consequences you have experienced recently:

Consequence	A			
You kept using cannabis even though it kept you from meeting your responsibilities at:				
Home (like doing chores, getting home on time)	A			
School (like going to class, doing homework, studying for tests)	A			
<ul> <li>Work (like doing a good job, arriving on time, getting along with others)</li> </ul>	A			
You used cannabis where it made the situation unsafe or dangerous for you, like when:	A			
Driving a car or using a machine	A			
<ul> <li>You were in a situation where you might have been forced into sex or been hurt</li> </ul>				
You had problems with the law because of your cannabis use				
You kept using even after you knew it was causing problems between you and the people around you				
You kept using even though it was keeping you from attending and participating in your mental health treatment.				
You kept using even though it was keeping you from taking your psychiatric medications.				

You reported 2 out of 6 types of consequences.



#### Red Flags of your Cannabis Use



#### The experiences below are red flags that cannabis use might have become a habit:

Experience	D
You needed more cannabis to get the same high or found that the same amount did not get you as high as it used to	Man.
You used cannabis in larger amounts, more often, or for a longer time than you meant to	
You were unable to cut down or stop using cannabis	
You spent a lot of time either: getting cannabis, using cannabis, feeling the effects of cannabis, or waiting for the effects to wear off	n
Your use of cannabis caused you to give up, reduce, or have problems at important activities at work, school, home, or social events.	
You kept using cannabis even after you knew it was causing you problems with:	
Your health (breathing, coughing)	
Your emotions (feeling less motivated, depressed, anxious)	M
Your memory or concentration	
Your symptoms of psychosis	M
You had withdrawal problems when you stopped using cannabis (like being irritable, anxious, having trouble sitting still or sleeping)	_ \
You continued to use cannabis to avoid or stop withdrawal problems	
You had such strong urges to use cannabis that you could not think of anything else.	

You reported 6 out of 9 red flags. Your risk of a serious pattern of use is:

#### Here is What We Learned about Your Recent Alcohol Use



During the past 30 days:

On average you drank alcohol on 1 days in the past month.

The most alcohol you used in one day was drinks.

You have gotten drunk or had 5 or more drinks on days.

#### Here is What We Learned about Your Recent Use of Other Drugs

During the past 60 days, you used on 30 days.

Туре	Number of Days
Cocaine	
Opiates	
Inhalants	
Hallucinogens	
Sedatives	
Stimulants	
Spice	
Cigarettes	30
Other	
	Cocaine Opiates Inhalants Hallucinogens Sedatives Stimulants Spice Cigarettes

#### Next Let's Explore Who's Important to You and Who You Can Count on for Help or Support



Person's name or initials	Does this person know about your cannabis use?	How does (or would) this person feel about your cannabis use?

#### Here are Your 5 Most Important Goals



Use this scale to rate how cannabis affects your goals.

Very Negatively	Negatively	Neither Positively or Negatively	Positively	Very Positively
1	2	3	4	5

My goal	My cannabis use affects this goal	Reducing my cannabis use would affect this goal
Be more independent		
Be successful		
Be happier		
Enjoy my free time		
Make more friends		

#### Which Represents You Today?



Feeling Good



Thinking about it



Want to make changes

# Next Steps...





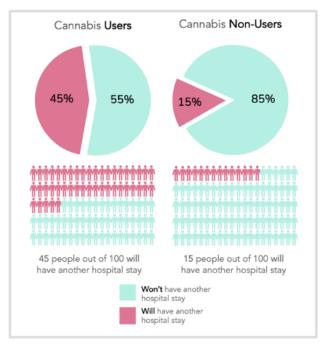


# **Ideas for Tailoring**

- Areas of feedback can be thought of as topics of conversation that could increase motivation
- Cannabis and psychosis treatment and recovery –
   Provision of science-based information on risks of continued cannabis use
  - Increased risk for hospitalization
  - Increased risk for medication non-adherence
- Evidence for harm reduction to impact psychosis outcomes – decrease frequency of use, potency of products

#### Using Cannabis and Hospitalization for Psychosis

You indicated that you have been in the hospital for psychosis. For most young people with psychosis, regular cannabis use leads to more symptoms, which leads to more hospital stays.



Wade, D., Harrigan, S., Edwards, J., Burgess, P. M., Whelan, G., & McGorty, P. D. (2006). Substance misuse in first-episode psychosis: 15-month prospective follow-up study. The British Journal of Psychiatry, 189(3), 229-234.

# HOW CAN I REDUCE MY RISK FOR PSYCHOSIS AND CANNABIS DEPENDENCE?

ABSTINENCE ELIMINATES RISKS ASSOCIATED WITH CANNABIS.

You can lower your risk of psychosis and cannabis addiction by:

- Reducing how often and how much cannabis you use
- Using low potency cannabis (products that contain less than 10% THC)
- Using cannabis products that have a high CBD to THC ratio

Research shows that individuals who experience psychosis who stop or reduce cannabis have:



Increased Functioning



Lower chance of psychosis relapse



Less positive psychosis symptoms



Less negative psychosis symptoms



# Pilot Study – Adaptation of MET for YA-P

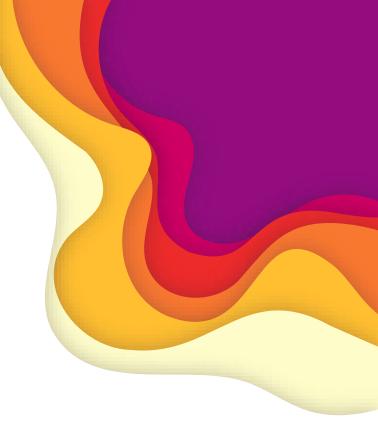
Funded by the Garvey Institute for Brain Health Solutions

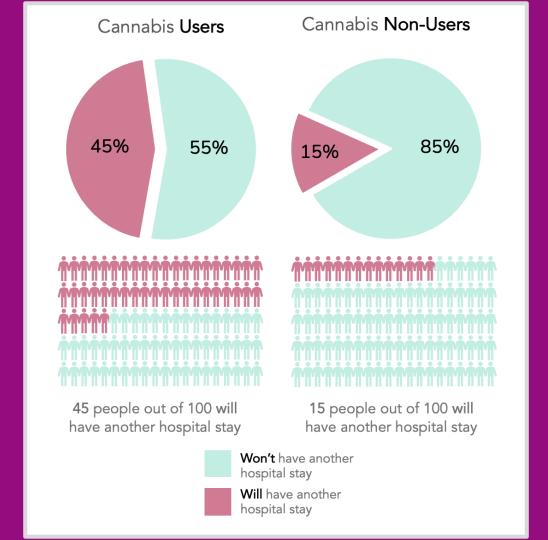
Stakeholder Advisory Board Intervention Adaptation

Pilot Study

### Adaptation of MET

- Evidence-based intervention
- Lends well to adaptation
- Adaptations Specific to YA-P:
  - Cannabis and tx participation
  - Feedback cannabis and risk of rehospitalization
  - Cannabis and symptoms of psychosis
  - Harm Reduction tips



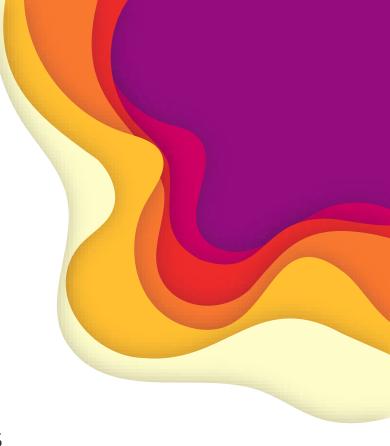


# Pilot Study Methods



### Study Participants (N = 12)

- Mean age: 22 years old
- 88% Male
- 67% White, 17% Black, 8% NHPI, 8% Latinx
- In School: 25%, Employed: 50%
- Used Cannabis on 18 of past 30 days



#### Results

- 100% Session 1 Completion
- 92% Session 2 Completion
- Average rating on Patient Satisfaction questions: (M = 4.06 SD = 1.07) 4= moderately helpful, 5 = extremely
- Check-Up Overall (M = 4.36, SD = 1.21)
- 100% would recommend the Check-Up
- 100% would retain the psychosisspecific content

## **Check-Up Overall**

"I didn't see any cons with my like marijuana use, and I didn't see anything negative about it in the beginning of the study. And then towards the end, after we started talking about it more and like, we're viewing the actual statistics and data, that it like kind of shifted. And I wanted to make a change. And I have been making a change....it's actually really beneficial for me so far."

#### Personalized Feedback

"Putting my goals and how well using cannabis like reflects on those, and how helpful it is to those goals – because they really put into perspective that I kinda needed to slow down in order to get to the point where I wanted to get."

"I really like the statistics. I'm a big fan of data. So the statistics – there was some that were a lot different than what I expected."

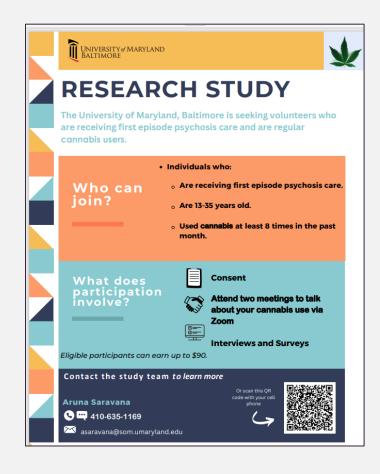
# Summary

- Individuals living with psychosis who use cannabis use for very similar reasons to those in the general population
  - Cannabis intervention research can inform conversations with psychosis populations
    - Motivational Interviewing and MET are tools to increase conversations
    - Use questions about important areas of life to prompt reflection on cannabis use
    - Help client make connections between goals & values and use (helping or hurting?)
    - Potential for leveraging commitment to recovery to increase motivation
    - Harm reduction should be considered in conversations



Connection Learning Healthcare System is recruiting for a study to pilot test a brief motivational enhancement therapy intervention to support continued engagement in Coordinated Specialty Care (CSC) for people with first episode psychosis who are frequent cannabis users.

- We are seeking volunteers aged 13-35 who are participating in CSC and have used cannabis at least 8 times in the last month
- Participation is virtual
- Participation will include completing surveys, interviews, and two brief meetings to discuss personal reasons for using cannabis and for staying connected to mental health services
- Eligible participants can earn up to \$90 in gift cards
- Further information and how to contact the study team
  can be found here: <u>Trying Out New Ways to Talk About</u>
  <u>Cannabis Use in CSC Programs | University of Maryland</u>
  School of Medicine (umaryland.edu)
- This study is based at the University of Maryland School
   Madigina (IRR #UR 00003105)



#### Contact

#### Denise Walker, PhD

• ddwalker@uw.edu

#### Teen Marijuana Check-Up Resources

https://adai.uw.edu/teen-checkup/

# Cannabis Withdrawal Symptoms

- Irritability, anger, aggression
- Loss of appetite or weight loss
- Difficulty sleeping

   (insomnia, disturbing dreams)
- Nervousness or anxiety

- Depressed mood
- Restlessness
- Physical symptoms: stomach pains, shakiness, tremors, fever, chills, headache, sweatiness
- Less common sxs: fatigue, yawning, difficulty concentrating

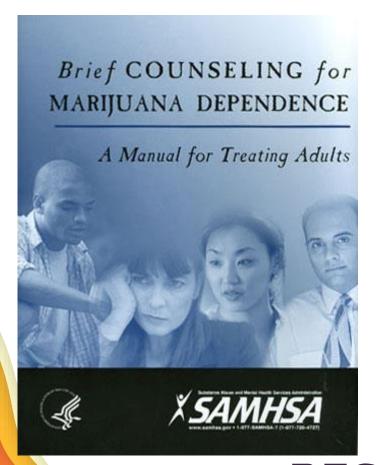


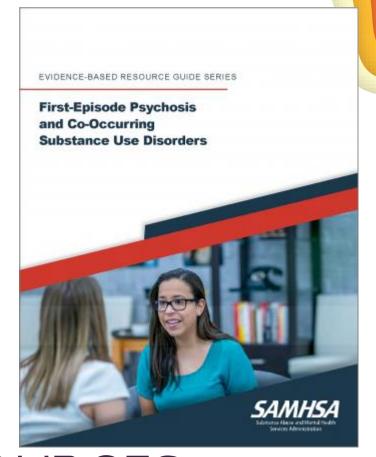
# Resources Specific to Adolescents and Cannabis

- Teen MarijuanaCheck-Up
- Free manual, assessment and PFR creation tool
- https://adai.uw.edu /teen-checkup/

- Chestnut HealthSystems
- Free Cannabis TXManuals for:
- MET/CBT
- Multidimensional Family Therapy
- Family SupportNetwork







# RESOURCES