#### **Technical Information**





This webinar is now live.

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It is being recorded.



Please remain muted.



#### Welcome

#### **Central East PTTC Webinar**

#### Preventing Youth Vaping, Cannabis, and Tobacco Use Part 1: Identifying and Understanding the Data

The Central East PTTC is housed at the Danya Institute in Silver Spring, MD

Oscar Morgan Executive Director



Deborah Nixon Hughes Project Director

### **Central East Region**

#### **SAMHSA REGION 3**





# The use of affirming language inspires hope. LANGUAGE MATTERS. Words have power. PEOPLE FIRST.

The PTTC Network uses affirming language to promote the application of evidence-based and culturally informed practices.



ethnicity spirituality orientation normalize experiences expression Ethnic stories terror race share injustices standard create care Matter shootings change education Racial<sup>®</sup> TUra space seem normal powerful NASW self Black gender affected Lives hate Diversity advocacy sexual religious competency



#### **PTTC Mission**

To Strengthen the Capacity of the Workforce

To Deliver Evidence-Based Prevention Strategies

Facilitate Opportunities for Preventionists to Pursue New Collaboration Opportunities, which include Developing Prevention Partnerships and Alliances



#### **Services Available**



#### Other Resources in SAMHSA Region 3









MHTTC

#### Mental Health Technology Transfer Center Network

Funded by Substance Abuse and Mental Health Services Administration





Prevention Technology Transfer Center Network
 Funded by Substance Abuse and Mental Health Services Administration

#### Preventing Youth Vaping, Cannabis, and Tobacco Use Part 1: Identifying and Understanding the Data

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Olivia Stuart Research Assistant, Carnevale Associates

May 28, 2024





#### **Presenters**





#### Josh Esrick





#### **Mentimeter Activity**





How to participate:

- Scan the QR code from a mobile device <u>OR</u>
- Click on the link in the chat OR
- Go to menti.com and enter the code at the top of this slide.

# Learning Objectives

- Describe youth substance use data sources and opportunities to expand data collection
- Explain the scope of youth vaping, cannabis, and tobacco use and consequences in the Central East region and nationally
- Identify risk and protective factors relevant to youth vaping, cannabis, and tobacco use
- Recognize the effects of the social determinants of health on youth vaping, cannabis, and tobacco use



#### **Data Sources and Data Collection**





## What Do We Mean by "Data"

- Data is any piece of information that can be used for some purpose (e.g., statistical analyses)
- Usually, data is collected to answer a question that you're trying to find the answer to (e.g., numbers or demographics)
- Data can be classified in many ways and from different perspectives







#### Which types of data have you been able to collect in the past?



## **Examples of National Data Sources**

- NSDUH (National Survey on Drug Use and Health)
- YRBS (Youth Risk Behavior Survey)
- Monitoring the Future (MTF)
- Nationwide Emergency Department Sample
   (NEDS)
- Wide-Ranging Online Data for Epidemiological Research (WONDER) (CDC)

And Many Others!



### **Potential State Data Resources**

- State Department of Education
- State Department of Health/Public Health
- State Police or State Courts
- State Liquor Licensing Agency
- State/Regional Poison Centers
- State Department of Motor Vehicles







# **Potential Local Data Sources**

- County/Municipal Health Departments
- Medical examiner/coroner
- Local hospitals, urgent care centers, health care providers
- Substance use treatment and recovery providers
- Community-based organizations
- Local law enforcement
- School districts
- Local colleges/universities
- Other stakeholders











#### Keep in Mind: Different Sources May Provide Different Data!

Percentages of past-month nicotine vaping among youth:

	2020	2021	2022
NSDUH (ages 12-17)	5.1%	5.2%	6.9%
MTF (grades 8-12)	18.0%	13.3%	13.8%



# **Collecting Your Own Data**

- Collect your own data to the extent your capacity allows BUT understand the challenges to data collection
- Carefully analyze data and understand its strengths and weaknesses
- Use culturally competent research methods
- Consider other methods of data collection--especially when working with populations that have their own traditions for sharing information
- Native American examples:
  - Story Telling
  - Talking Circles
  - Visual Expressions





**Mentimeter Activity** 

Join at menti.com | use code 7248 3210

# What trends in youth vaping, cannabis, and tobacco use are you seeing in your community?

ach response can be up to 00 characters long

let participants vote for the



SCAN ME

Content

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How to participate:

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# **Youth Vaping**





#### **Past-Month Vaping by Substance**

Percentages among 9<sup>th</sup>-12<sup>th</sup> graders



## **Characteristics of Youth Who Vape**

	Middle School	High School			
Frequency of Use in the Past 30 Days					
1-5 days	62.0%	40.7%			
6-9 days	17.3%	19.7%			
20-30 days	20.7%	39.7%			
Daily	11.4%	29.9%			
Type of Vaping Device Most Often Used					
Disposable	47.9%	65.2%			
Prefilled or Refillable Pods	16.7%	16.0%			
Tanks or Mods	4.4%	6.0%			
Don't Know	31.1%	12.8%			



National Youth Tobacco Survey, 2023

#### Past-Month Vaping in the Central East Region

Percentages among 9<sup>th</sup>-12<sup>th</sup> graders



25

# Past-Month Vaping by Race/Ethnicity

#### Percentages among 9<sup>th</sup>-12<sup>th</sup> graders



#### Past-Month Nicotine Vaping by Gender



# **Potential Consequences of Vaping**

- Nicotine or cannabis addiction
- Future use of other tobacco products
- Lung inflammation, cell damage, and cancer
- Mechanical product failure
- Potential exposure to heavy metal particles
- Risk of oral health damage
- Environmental hazards
- Unanticipated risks





## **Youth Cannabis Use**





### Past-Month Cannabis Use by Age

Percentages among youth ages 12-17 and young adults ages 18-20



# Past-Month Cannabis Use in the Central East Region



#### Past-Month Cannabis Use by Race/Ethnicity



#### Past-Month Cannabis Use by Gender



# **Consequences of Cannabis Use**

- May affect brain development among those under 25
  - Casual adolescent users are 2-4x more likely to develop a mental health disorder than non-users
- Regular exposure to high amounts of THC can lead to development of a use disorder
  - **1.3 million youth** ages 12-17 had cannabis use disorder in 2021
- Can impact academic performance and occupational attainment
- Cannabis is the second most common substance associated with impaired driving (behind alcohol)



#### **Mentimeter Activity**





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#### Youth Tobacco Use





#### Past-Month Tobacco Product Use by Type



# Past-Month Tobacco Product Use (Excluding Vaping) in the Central East Region



#### Past-Year Initiation of Tobacco Use by Type

Percentages of youth ages 12-17 who started using tobacco products in the past 12 months



#### Demographic Details of Youth Past-30 Day Tobacco Use

Percentages among youth grades 6<sup>th</sup>-12<sup>th</sup>

	Ger	nder	Race and Ethnicity				Overall	
Tobacco Product	Male	Female	AI/AN	Black or African American	White	Hispanic or Latino	Multiracial	National
<u>Any</u> tobacco product	11.2%	8.9%	8.0%	9.3%	9.5%	11.7%	12.6%	10.0%
E-cigarettes	9.3%	6.1%	5.9%	5.6%	7.7%	8.5%	10.2%	7.7%
<u>Multiple</u> tobacco products	3.4%	3.4%	2.0%	3.2%	3.1%	3.9%	4.1%	3.4%



National Youth Tobacco Survey, 2023

# **Consequences of Tobacco Use, I**

- It is estimated that 5.6 million youth alive today will die prematurely from a smoking-related illness
- Earlier initiation of tobacco use is associated with an increased risk of nicotine addiction compared to those who start later
  - 9 out of 10 adult daily cigarette smokers first tried smoking before age 18

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# **Consequences of Tobacco Use, II**

- Smoking in adolescence is associated with early heart damage and reduced lung function and growth
- Exposure to nicotine can impair brain development for those under 25, impacting attention, mood, and impulsivity
- Smoking is known to cause cancer in multiple areas of the body, including lungs, bladder, mouth and throat, pancreas, kidneys, stomach, and cervix





#### Important Risk Factors for Youth Vaping, Cannabis, and Tobacco Use



#### Mental Health-Related Risks

- Youth report increases in risks associated with vaping, cannabis, and tobacco use:
  - Boredom
  - Anxiety
  - Depression
  - Loneliness
  - Worry
  - Difficulty sleeping
  - Other negative mental health indicators



### Perceptions of Harm: 8<sup>th</sup> Grade

Substance Use	2018	2022
Vaping an e-liquid with nicotine occasionally	16.9%	24.1%
Vaping an e-liquid with nicotine regularly	32.4%	53.2%
Smoke 1-5 cigarettes per day	40.8%	35.5%
Smoke 1 or more packs of cigarettes per day	61.3%	61.9%
Use marijuana regularly	52.9%	53.6%
Vape marijuana regularly	N/A	53.0%



#### Normalization of Use: Perception of Benefits

- Youth report regularly hearing positive messages and attitudes towards vaping from friends and older family members who vape
- Appealing flavors and designs of products may be a motivator for use



 Youth perceived benefits of cannabis and vaping include short-term mental health outcomes (e.g., reduced anxiety or stress) and "looking cool"



#### Normalization of Use: Perception That All or Most Students in Grade Use Cannabis



# Availability

- Vape products are numerous and readily available
  - More than 7,700 vape flavors exist across more than 460 brands
- Until 2019/2021, Synar enforcement did not automatically include vaping products
  - Despite restrictions, e-cigarette sales were 46% higher in 2022 than 2020
- Youth report that tobacco and cannabis products are easily to obtain through social media
  - Social media accounts ship in discreet packaging, don't require an age minimum to purchase
  - 76.3% of online retailers allow users to reach the checkout page without age confirmation



### Availability

#### Cannabis Legalization 2023



Source: https://www.carnevaleassociates.com/our-work/policy-information-briefs.html





# Which of these risks are the most pressing to your community?

Mental health risks	Perceptions of harm	Normalization of use	Availability	Other (write in chat)	
Central East (HHS Region 3)	How to participate:	<ul> <li>Scan the QR co</li> <li>Click on the link</li> <li>Go to menti.con</li> </ul>	ode from a mobi in the chat <u>OF</u> n and enter the	le device <u>OR</u> <u>?</u> code at the top of this :	slide.

# Sample Protective Factors Against Substance Use

- Resiliency
- Social connectedness
- Policies limiting substance availability
- Having structured activities (e.g., faithbased, after school) and opportunities for skill-building
- Parental involvement
- Adequate housing

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- Access to health care and social services
- Having peers who do not use substances









# Youth Use and the Social Determinants of Health





### The Five Domains of SDOH (HHS)



The SDOH can be thought of as another way to organize and think about community- and societylevel risk factors.



## **Examples of Relevant SDOH**

- Societal discrimination and related stress
- Race-based victimization
- Community stress and immigration-related stress
- Normalization of drug trafficking behaviors

All have been associated with increased risk for youth tobacco or cannabis use!



## Conclusion

- Youth substance use data can be difficult to accurately obtain
- But most indications are that vapes and cannabis are major issues
- Other tobacco use continues to decline, but reduced perceptions of harm from smoking are cause for concern
- Increases in various risk factors for youth substance use suggest the need for expanding services
- We'll talk about EBPs in Part 2!





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#### **Contact Us**

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Prevention Technology Transfer Center Network Funded by Substance Abuse and Mental Health Services Administration

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