

# Addressing substance use disorders to accelerate EHE progress: The power of HIV community stakeholder perspectives

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Drs. Garner, Gotham, and Patel do not have any relevant financial interests to disclose.

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# Learning Objectives

At the conclusion of this activity, participants will be able to:

1. Participants will be able to distinguish the three substance use disorders with the greatest population-level negative impact.
2. Participants will be able to explain which evidence-based substance use disorder interventions are the most promising for integration within HIV service organizations.
3. Participants will be able to compare implementation strategies that AETCs can leverage to improve integrated care for substance use disorders within HIV service organizations.

# Which substance use disorders (SUDs) have the greatest population-level negative impact among people with HIV (PWH)?

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# The Substance Treatment Strategies for HIV Care (STS4HIV) Project

- **Aim 1:** Empirically identify one or more Substance-Treatment-Strategy (STS) recommendations for improving the integration of substance use disorder interventions within HIV service organizations across the United States  
*For example, a specific Substance [e.g., alcohol], Treatment [e.g., motivational interviewing], and Strategy [e.g., workshop training + feedback + coaching] combination)*
- **Aim 2:** Experimentally test the effectiveness of external facilitation (i.e., having a person external to the organization provide interactive problem solving and support to help the organization implement empirically-based innovations) as a strategy to improve the integration of evidence-based interventions within HIV service organizations across the United States, relative to what is achieved via usual dissemination strategies (e.g., mail, email, website postings)

# Prior estimates of SUD prevalence among PWH

- **Cannabis = 31%**
- **Alcohol = 19%**
- **Methamphetamine = 13%**
- **Cocaine = 11%**
- **Opioids = 4%**

Hartzler, B., Dombrowski, J. C., Crane, H. M., Eron, J. J., Geng, E. H., Christopher Mathews, W., ... & Donovan, D. M. (2017). Prevalence and predictors of substance use disorders among HIV care enrollees in the United States. *AIDS and Behavior*, 21(4), 1138-1148.

# Stakeholder-engaged Real-Time Delphi (SE-RTD)

- Conducted in May of 2019 as part of the STS4HIV project
- 643 stakeholders participated
  - 115 HIV Planning Council/Body representatives
  - 419 staff at HIV service organizations
  - 109 clients at HIV service organizations
- After explaining the criteria for a substance use disorder, participants were then asked to estimate the percentage of PWH in their area with a use disorder for: 1) **Alcohol**, 2) **Cannabis**, 3) **Methamphetamine**, 4) **Opioids**, and 5) **Cocaine**

# Our estimates of SUD prevalence among PWH

- **Cannabis = 42%**; *35% higher than prior estimate of 31%*
- **Alcohol = 42%**; *121% higher than prior estimate of 19%*
- **Methamphetamine = 32%**; *146% higher than prior estimate of 13%*
- **Opioids = 35%**; *775% higher than prior estimate of 4%*
- **Cocaine = 28%**; *155% higher than prior estimate of 11%*

Garner, B. R., Gotham, H. J., Knudsen, H. K., Zulkiewicz, B. A., Tueller, S. J., Berzofsky, M., ... & Gordon, T. (2022). The prevalence and negative impacts of substance use disorders among people with HIV in the United States: A real-time delphi survey of key stakeholders. *AIDS and Behavior*, 26(4), 1183-1196.



# The estimated prevalence of Alcohol Use Disorders among PWH

**42% prevalence** of Alcohol Use Disorder among people with HIV in developed countries (based on data from 8 studies)

- *121% higher than Hartzler et al. (2017) estimate of 19%*
- Identical to the *Garner et al. (2022) estimate of 42%*

Duko, B., Ayalew, M., & Ayano, G. (2019). The prevalence of alcohol use disorders among people living with HIV/AIDS: a systematic review and meta-analysis. *Substance abuse treatment, prevention, and policy*, 14(1), 1-9.

# Average estimated individual-level negative impact scores

On a scale of 0 to 24  
 (greater scores indicative of greater negative impact)

- **Methamphetamine = 19.4**
- **Opioids = 17.6**
- **Alcohol = 16.2**
- **Cocaine = 15.9**
- **Cannabis = 8.1**

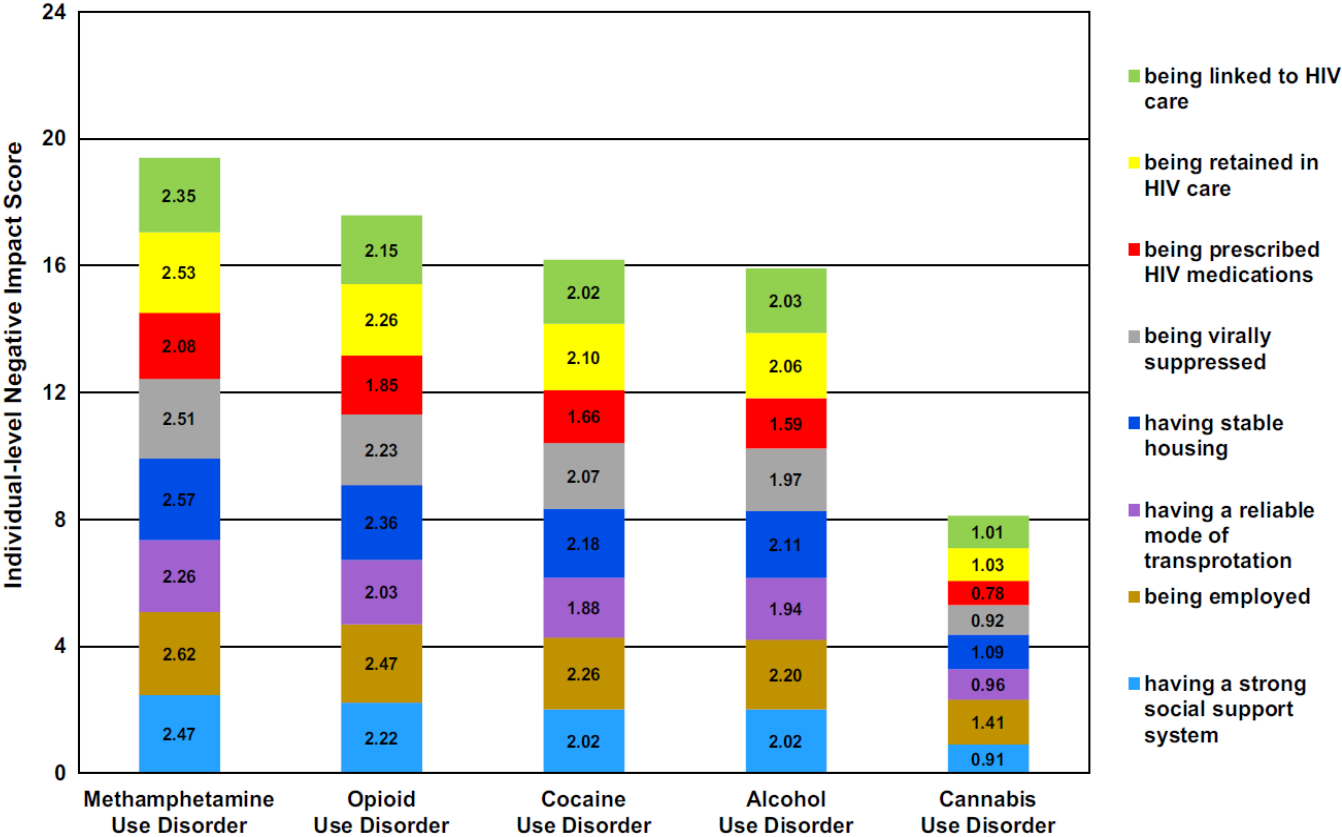


Fig. 2 Contribution of each indicator to the individual-level negative impact scores

Garner, B. R., et al (2022). AIDS and Behavior, 26(4).

# Average estimated population-level negative impact scores

- Computed by multiplying the estimated individual-level impact score by the estimated prevalence rate
- Scores range from 0 to 8 (higher-scores indicative of a greater population-level negative impact)
  - **Alcohol** = 6.9
  - **Methamphetamine** = 6.5
  - **Opioids** = 6.4
  - **Cocaine** = 5.0
  - **Cannabis** = 3.7

# Conclusions and next step

- The stakeholder-driven estimates from the STS4HIV project provide some of the most recent estimates regarding the prevalence rate and individual-level negative impact of use disorders for five different substances
- From a population-level perspective, the three most problematic use disorders among people with HIV are for: 1) **Alcohol**, 2) **Methamphetamine**, and 3) **Opioids**
- The next step for the STS4HIV project was to identify evidence-based interventions with a good fit for integration with HIV service organizations across the United States

# Which SUD interventions are the best fit for integration into HSOs?

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- Know there are high levels of need for SUD services among PWH and which substances are the most problematic
  - Alcohol use disorder
  - Methamphetamine use disorder
  - Opioid use disorder
- Now, need to know ***what evidence-based SUD treatment interventions have the best fit for delivery by HIV service organizations?***

# Evidence-based interventions for treating SUDs

## 6 pharmacological interventions:

- Acamprosate
- Disulfiram
- Oral naltrexone
- Injectable naltrexone
- Injectable buprenorphine
- Sublingual buprenorphine

## 3 psychosocial interventions:

- Cognitive behavioral therapy
- Contingency management
- Motivational interviewing

# Pharmacological Interventions

## ACAMPROSATE (CAMPRAL®)

MEDICATION	STAFFING
 <p>Effective for <b>ALCOHOL USE DISORDERS</b></p>	 <p>Prescribing <b>HEALTH PROFESSIONAL</b></p>
<p>Taken <b>THREE TIMES/DAY</b> for an indefinite length of time</p> 	
<p>Frequency of <b>CLINICAL VISITS</b> is <b>INDIVIDUALIZED</b></p> 	

## DISULFIRAM (ANTABUSE®)

MEDICATION	STAFFING
 <p>Effective for <b>ALCOHOL USE disorders</b></p>	 <p>Prescribing <b>HEALTH PROFESSIONAL</b></p>
 <p>Taken <b>ONCE DAILY</b> for an indefinite length of time</p>	
<p>Frequency of <b>CLINICAL VISITS</b> is <b>INDIVIDUALIZED</b></p> 	



# Pharmacological Interventions 2

## ORAL NALTREXONE (REVIA®/DEPADE®)

### MEDICATION



Effective for  
ALCOHOL  
AND OPIOID  
use disorders

### STAFFING



Prescribing  
HEALTH  
PROFESSIONAL

Taken  
ONCE  
DAILY  
for an indefinite  
length of time



Frequency  
of  
CLINICAL  
VISITS is  
INDIVIDUALIZED



## INJECTABLE NALTREXONE (VIVITROL®)

### MEDICATION



Effective for  
ALCOHOL  
AND OPIOID  
use disorders

### STAFFING



Prescribing  
HEALTH  
PROFESSIONAL

INJECTED ONCE  
PER MONTH  
for an indefinite  
length of time



Frequency  
of  
CLINICAL  
VISITS is  
INDIVIDUALIZED



## ORAL BUPRENORPHINE (SUBUTEX® AND GENERICS) AND BUPRENORPHINE/NALOXONE (SUBOXONE® AND GENERICS)

### MEDICATION



Effective for  
OPIOID USE  
DISORDERS

### STAFFING



Prescribing  
HEALTH  
PROFESSIONAL  
with a WAIVER

To obtain the waiver

SUBLINGUAL PILL  
or FILM TAKEN  
once daily for  
an indefinite  
length of time



PHYSICIANS  
8-hour  
free training



OTHER  
PRESCRIBERS  
24-hour  
free training

Frequency  
of  
CLINICAL  
VISITS is  
INDIVIDUALIZED



## INJECTABLE BUPRENORPHINE (SUBLOCADE®)

### MEDICATION



Effective for  
OPIOID USE  
DISORDERS

### STAFFING



Prescribing  
HEALTH  
PROFESSIONAL  
with a WAIVER

To obtain the waiver

INJECTED ONCE  
PER MONTH  
for an indefinite  
length of time



PHYSICIANS  
8-hour  
free training

OTHER PRESCRIBERS  
24-hour free training



NURSING STAFF to  
provide INJECTION

Frequency  
of  
CLINICAL  
VISITS is  
INDIVIDUALIZED



# Pharmacological Interventions 3

## MOTIVATIONAL INTERVIEWING

<h3>PSYCHOSOCIAL TREATMENT</h3>  <p>Effective across several <b>SUBSTANCES</b>, with strongest evidence for <b>ALCOHOL AND CANNABIS</b> use disorders</p>	<h3>STAFFING</h3>  <p><b>BEHAVIORAL HEALTH PROFESSIONAL</b></p>  <p><b>TRAINING:</b> ≥ 32 HOURS TRAINING, CLINICAL EXPERIENCE &amp; competency on a recorded session</p>
<p>6 weeks </p> <p>Delivered in weekly sessions <b>60 MINUTES FOR 6 WEEKS</b> or longer</p>	<p><b>TRAINING COSTS</b> vary </p>

## COGNITIVE-BEHAVIORAL THERAPY (CBT)

<h3>PSYCHOSOCIAL TREATMENT</h3>  <p>Effective for <b>ALCOHOL, CANNABIS, OPIOID,</b> and <b>STIMULANT</b> use disorders</p>	<h3>STAFFING</h3>  <p><b>BEHAVIORAL HEALTH PROFESSIONAL</b></p>  <p><b>Training:</b> ≥ 40 HOURS TRAINING, &amp; 5 to 10 clinical cases</p>
<p>12 weeks </p> <p>Delivered in weekly sessions <b>60 MINUTES FOR 12 WEEKS</b> or longer</p>	<p><b>TRAINING COSTS</b> vary </p>

## CONTINGENCY MANAGEMENT

<h3>PSYCHOSOCIAL TREATMENT</h3>  <p>Effective for <b>ALCOHOL, CANNABIS, OPIOID,</b> and <b>STIMULANT</b> use disorders</p>	<h3>STAFFING</h3>  <p>Any health or <b>BEHAVIORAL HEALTH PROVIDER</b> or <b>STAFF</b></p> <p>Training in specific <b>CONTINGENCY MANAGEMENT</b> method (e.g., fishbowl, vouchers, points)</p>  <p><b>TRAINING:</b> ≥ 8 HOURS TRAINING &amp; ongoing consultation from expert</p>
<p>12 weeks </p> <p>Delivered <b>IN WEEKLY</b> or more frequent visits <b>15 MINUTES</b> for <b>12 WEEKS</b> or longer</p>	<p><b>TRAINING COSTS</b> vary </p>

# Setting-Intervention Fit

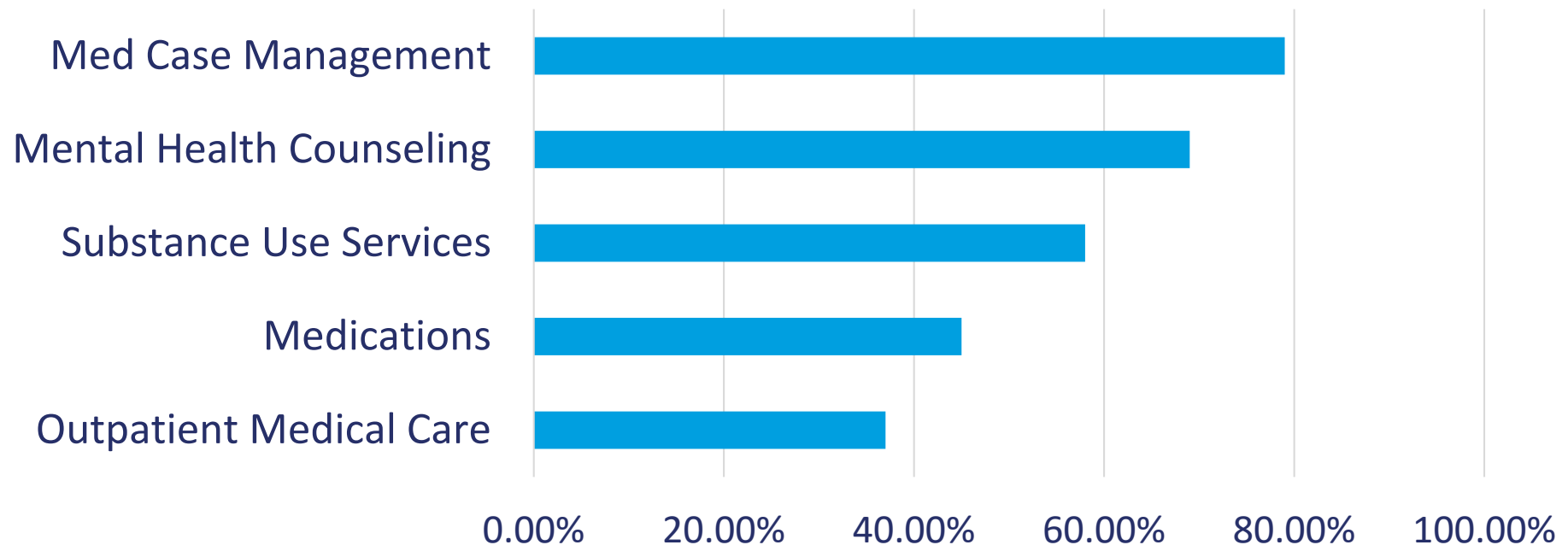
- **Fundable** – is *funding available* to train or hire a staff to offer the treatment intervention to individuals in need
- **Implementable** - would a qualified staff have the necessary *time and support to implement* this treatment intervention with individuals in need
- **Retainable** - once a qualified staff was trained or hired to offer this treatment intervention, would it be possible to *keep the staff* for at least 1 year
- **Sustainable** – after turnover of a staff qualified to offer this treatment intervention, would it be possible for a *replacement staff* to be hired or trained
- **Scalable** - if there were an increase in client need, would it be possible to *hire or train more staff* to offer the treatment intervention
- **Timely** - is having a qualified staff available to offer this treatment intervention within this HIV service organization/site both *needed and desired*

# What we asked of participants

- We created a custom SE-RTD platform that enabled participants to log in at their convenience to participate
- During a two-week period, participants were asked to:
  - Review infographics and animations to learn about the interventions
  - Rate them across six setting-intervention fit criteria
  - Explain their initial responses
  - Review others' responses and comments and responded if inclined
  - Change their final responses if inclined
- Participants were compensated \$100 for their time

# Participants

- Staff at HIV service organizations nationally were invited to participate
- 202 had complete responses (60% from nonclinical organizations)
- Services provided by the respondents' organizations:



# Setting-Intervention Fit of Evidence-Based Interventions of Substance Use

*J Acquir Immune Defic Syndr* • Volume 00, Number 00, Month, 2022 *The setting-intervention fit of evidence-based interventions for substance use disorders within HIV service organizations*

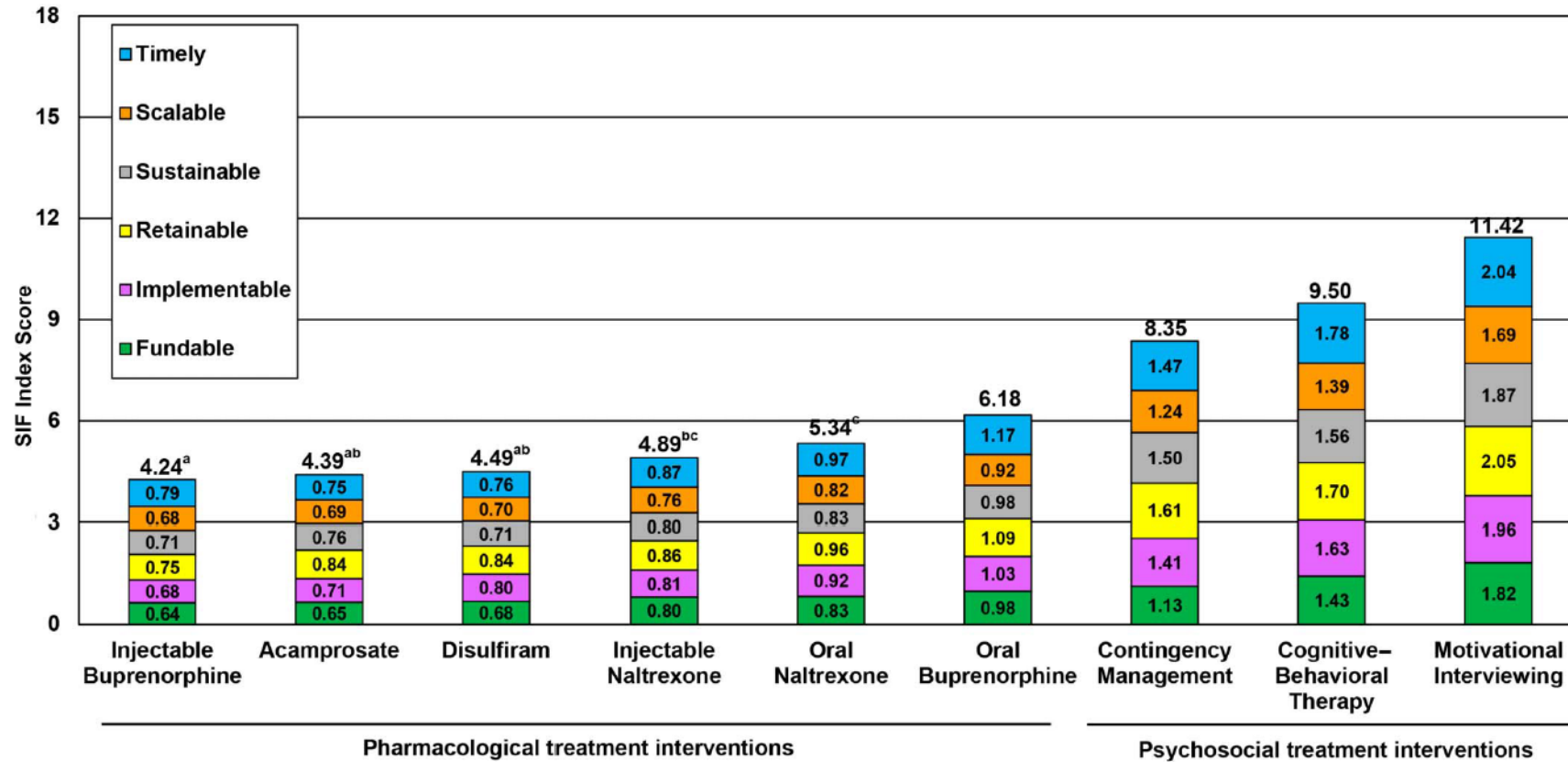


FIGURE 3. Unadjusted setting-intervention fit index scores and dimension contributions.

Garner, B. R., Knudsen, H. K., Zulkiewicz, B. A., Tueller, S. J., Gotham, H. J., Martin, E. G., Donohoe, T., Toro, A. K., Loyd, K., & Gordon, T. (2022). The Setting-Intervention Fit of Nine Evidence-Based Interventions for Substance Use Disorders Within HIV Service Organizations Across the United States: Results of a National Stakeholder-Engaged Real-Time Delphi Study. *Journal of acquired immune deficiency syndromes*;90(S1).

# Predictors of Setting-Intervention Fit

- For the medications, respondents from clinical organizations (versus non-clinical) and from larger organizations (>22 staff) generally rated setting-intervention fit higher
- For the psychosocial interventions, organizations and respondent characteristics generally did not predict setting-intervention fit
- Offering substance use services was only a predictor of fit for injectable/oral buprenorphine and motivational interviewing

# Summary

- The 3 psychosocial interventions were rated higher on setting-intervention fit than the 6 pharmacological interventions
  - Motivational interviewing was the only intervention rated above the midpoint in fit for both clinical and nonclinical organizations
  - Cognitive behavioral therapy and oral buprenorphine were rated above the midpoint in fit for clinical organizations
- HIV service organizations see the need to offer SUD services but are uncertain of how to fund them
  - Timely (having a qualified staff available to offer this intervention was both needed and desired) was generally the highest rated criterion
  - Fundable (availability of funding to train or hire a staff) was generally the lowest rated criterion



# Conclusions and next step

- It is critical to overcome financing, workforce, and training issues to enable HIV service organizations to provide essential substance use services
  - Financing – billing for services, funding medical or SUD counselor positions
  - Workforce – finding and retaining qualified staff
  - Training – understanding what training is required, locating free or affordable training, supervision of trained staff if needed
- The next step for the STS4HIV project was to identify what strategies can be offered by intermediaries to help HIV service organizations explore, prepare for, and implement the interventions

# Which strategies are the most promising for supporting integration of SUD interventions into HSOs?

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# 3<sup>rd</sup> STS4HIV SE-RTD Study

- Know which substances are the most problematic for PWH
  - Alcohol use disorder
  - Methamphetamine use disorder
  - Opioid use disorder
- Know which evidence-based SUD treatment interventions that have the best fit for delivery by HIV service organizations
  - Cognitive behavioral therapy
  - Motivational interviewing
  - Contingency management
- Now, need to know ***what strategies have the greatest promise for supporting integration of the interventions into HIV service organizations***

# Strategies to support integration of psychosocial SUD interventions

## 3 exploration strategies:

- Disseminate information about the intervention
- Conduct a formal needs or readiness assessment
- Obtain a formal commitment

## 4 preparation strategies:

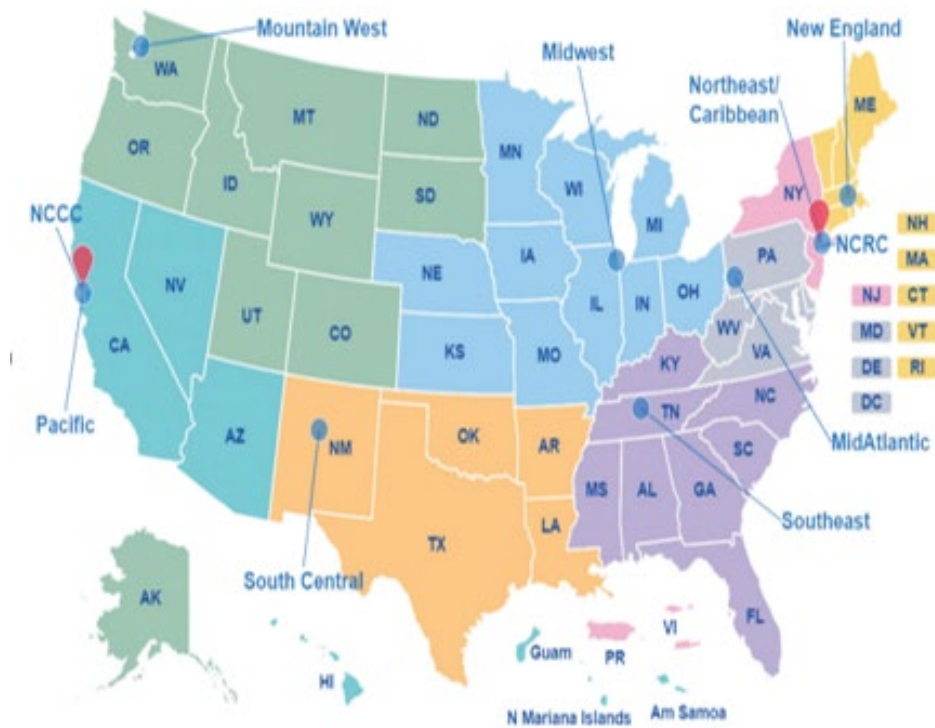
- Develop an implementation plan
- Provide access to asynchronous trainings
- Conduct interactive training workshop
- Assess provider proficiency in intervention skills

## 3 implementation strategies:

- Provide ongoing clinical consultation
- Provide ongoing implementation support
- Facilitate ongoing learning collaborative

# AIDS Education & Training Centers (AETCs) as implementation purveyors

The AETC Program's regional centers and special projects provide training, capacity-building support, and expertise along the HIV care continuum nationally.



### Regional AETC Centers

- MidAtlantic
- Northeast/Caribbean
- Midwest
- Pacific
- Mountain West
- South Central
- New England
- Southeast

### Special Projects

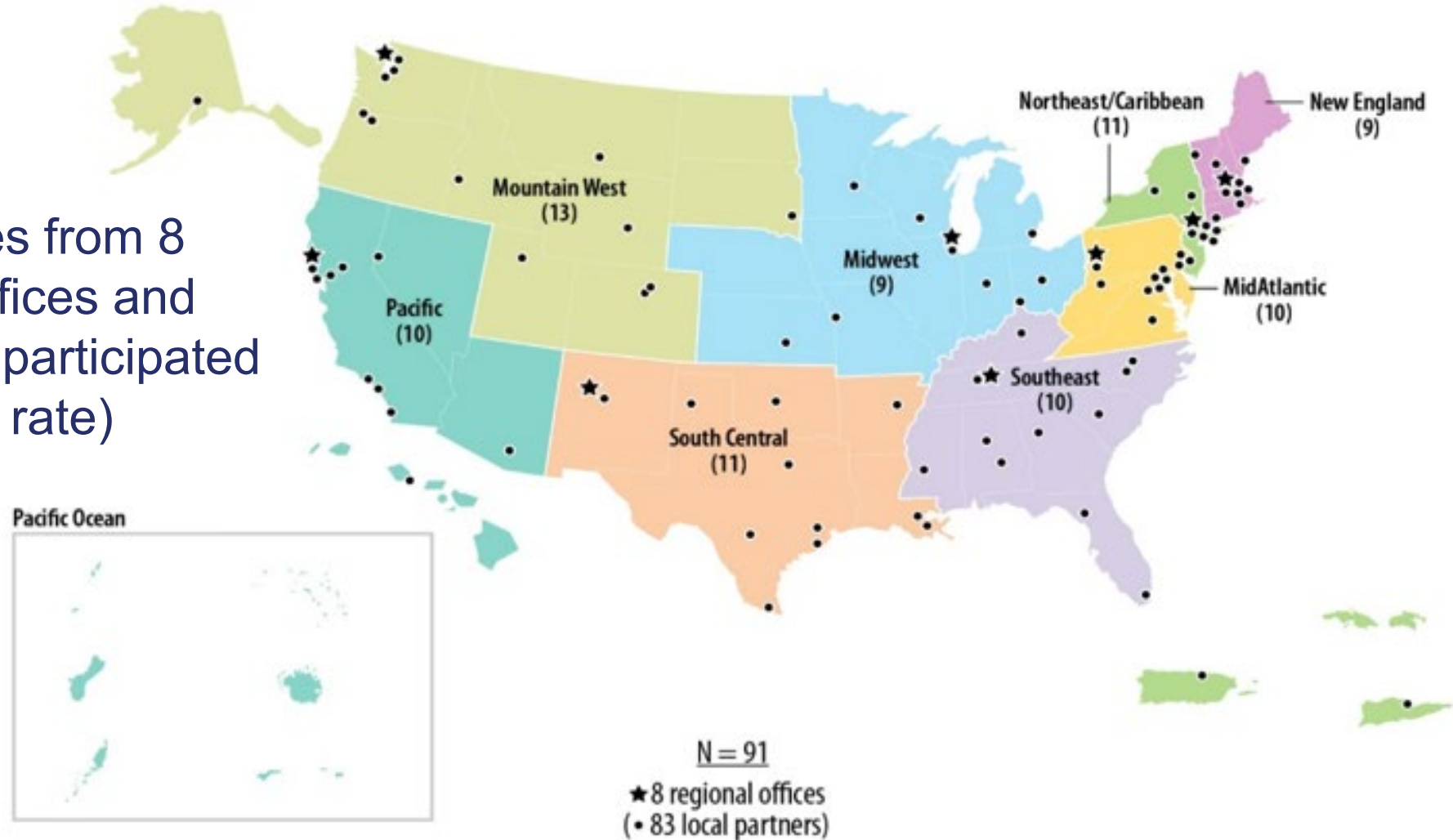
- University of Washington AETC National HIV Curriculum (NHC)
- Howard University National HIV Curriculum Integration Project (H-NIP)
- University of Illinois Midwest Integration of the National HIV Curriculum (MINHC)

# What we asked of participants

- We created a custom SE-RTD platform that enabled participants to log in at their convenience to participate
- During a two-week period, participants were asked to:
  - Review infographics and animations to learn about the strategies
  - Rate them across five dimensions
  - Explain their initial responses
  - Review others' responses and comments and responded if inclined
  - Change their final responses if inclined
- Participants were compensated \$100 for their time

# Participants

64 representatives from 8 regional AETC offices and 66 local partners participated (a 70% response rate)



# Participants

- All participants reported a moderate or great extent of knowledge regarding their AETC
- Most believed to a great extent that it is important for SUD-related services to be integrated into HIV service organizations, but that they were currently integrated only to a moderate or minor extent
- Only 20.3%, 37.5%, and 7.8% of the respondents reported that their AETC is *expected*, *supported*, and *rewarded to a great extent* to help HSOs integrate SUD-related services, respectively



# Exploration strategies

## PHASE 1 EXPLORE

### Disseminate EBI Information

**GOAL** Increase the HIV service organization's knowledge about the intervention to encourage its adoption

- ACTIONS**
- Identify relevant intervention-specific educational resources
  - Send them to the leadership and staff at HIV service organizations

**SKILLS**

EBI BASICS      COORDINATION

**RESOURCES**

EBI: Evidence-Based Intervention

## PHASE 1 EXPLORE

### Conduct Formal Assessment

**GOAL** Support the HIV service organization in identifying service gaps and evaluating potential interventions to fulfill unmet needs

- ACTIONS**
- Assess whether there is an unmet need in the community
  - Assess how ready the HIV service organization's leadership and staff are to implement an intervention to fulfill that need

**SKILLS**

EBI BASICS      COORDINATION      ASSESSMENT

**RESOURCES**

EBI: Evidence-Based Intervention

## PHASE 1 EXPLORE

### Obtain Formal Commitment

**GOAL** Grow the HIV service organization's commitment to try implementing the intervention to encourage its adoption

- ACTIONS**
- Identify key leadership within the HIV service organization
  - Persuade them to commit to implementing the intervention
  - Hold them accountable

**SKILLS**

EBI BASICS      FACILITATION

**RESOURCES**

EBI: Evidence-Based Intervention

# Preparation strategies

PHASE 2  
**PREPARE**

**Develop Implementation Plan**

**GOAL** Increase the extent to which the HIV service organization is adequately prepared to implement the intervention to make delivery more feasible

- ACTIONS**
- Engage key leadership and staff within the HIV service organization
  - Determine the steps necessary to implement the intervention

**SKILLS**

EBI BASICS COORDINATION FACILITATION

**RESOURCES**

EBI: Evidence-Based Intervention

PHASE 2  
**PREPARE**

**Provide Access to Training Modules**

**GOAL** Increase the HIV service organization's basic understanding of the intervention to improve perceptions about the intervention

- ACTIONS**
- Invite staff at HIV service organizations to receive basic intervention training
  - Grant them access to online modules that explain key concepts and provide examples
  - Monitor their completion of the training

**SKILLS**

EBI BASICS COORDINATION

**RESOURCES**

EBI: Evidence-Based Intervention

PHASE 2  
**PREPARE**

**Conduct Interactive Training Workshop**

**GOAL** Develop intervention knowledge and skills within the HIV service organization to ensure the intervention is delivered as intended

- ACTIONS**
- Recruit staff at HIV service organizations to participate in a multi-day live training
  - Conduct interactive workshop that includes experiential exercises

**SKILLS**

EBI EXPERTISE COORDINATION FACILITATION

**RESOURCES**

EBI: Evidence-Based Intervention

PHASE 2  
**PREPARE**

**Assess Provider Proficiency in EBI Skills**

**GOAL** Establish intervention competency within the HIV service organization to ensure the intervention is delivered as intended

- ACTIONS**
- Obtain recordings of HIV service organization staff delivering the intervention
  - Use a fidelity checklist to score proficiency
  - Provide feedback
  - Repeat until staff achieve proficiency

**SKILLS**

EBI EXPERTISE COORDINATION ASSESSMENT

**RESOURCES**

EBI: Evidence-Based Intervention

# Implementation strategies

## PHASE 3 IMPLEMENT

### Provide Ongoing Clinical Consultation

GOAL



Improve intervention knowledge and skills within the HIV service organization to ensure the intervention is delivered as intended

ACTIONS



- Convene virtual meetings over 3-6 months among small groups of staff delivering the intervention
- Provide advice on cases
- Facilitate skills practice

SKILLS



EBI EXPERTISE



ASSESSMENT



FACILITATION

RESOURCES



EBI: Evidence-Based Intervention

## PHASE 3 IMPLEMENT

### Provide Ongoing Implementation Support

GOAL



Support the HIV service organization in resolving challenges with implementing the intervention to promote widespread delivery

ACTIONS



- Convene meetings over 6-12 months among key leadership and staff within an HIV service organization
- Facilitate discussions to identify and address challenges to implementing the intervention

SKILLS



EBI BASICS



COORDINATION



FACILITATION

RESOURCES



EBI: Evidence-Based Intervention

## PHASE 3 IMPLEMENT

### Facilitate Ongoing Learning Collaborative

GOAL



Establish regular reflection and evaluation of the intervention's implementation at the HIV service organization to promote widespread and sustained delivery

ACTIONS



- Convene meetings over 12-18 months with key leadership and staff from across HIV service organizations
- Facilitate sharing of experiences and promote testing and evaluation of changes to improve intervention implementation

SKILLS



EBI BASICS



COORDINATION



FACILITATION

RESOURCES



EBI: Evidence-Based Intervention

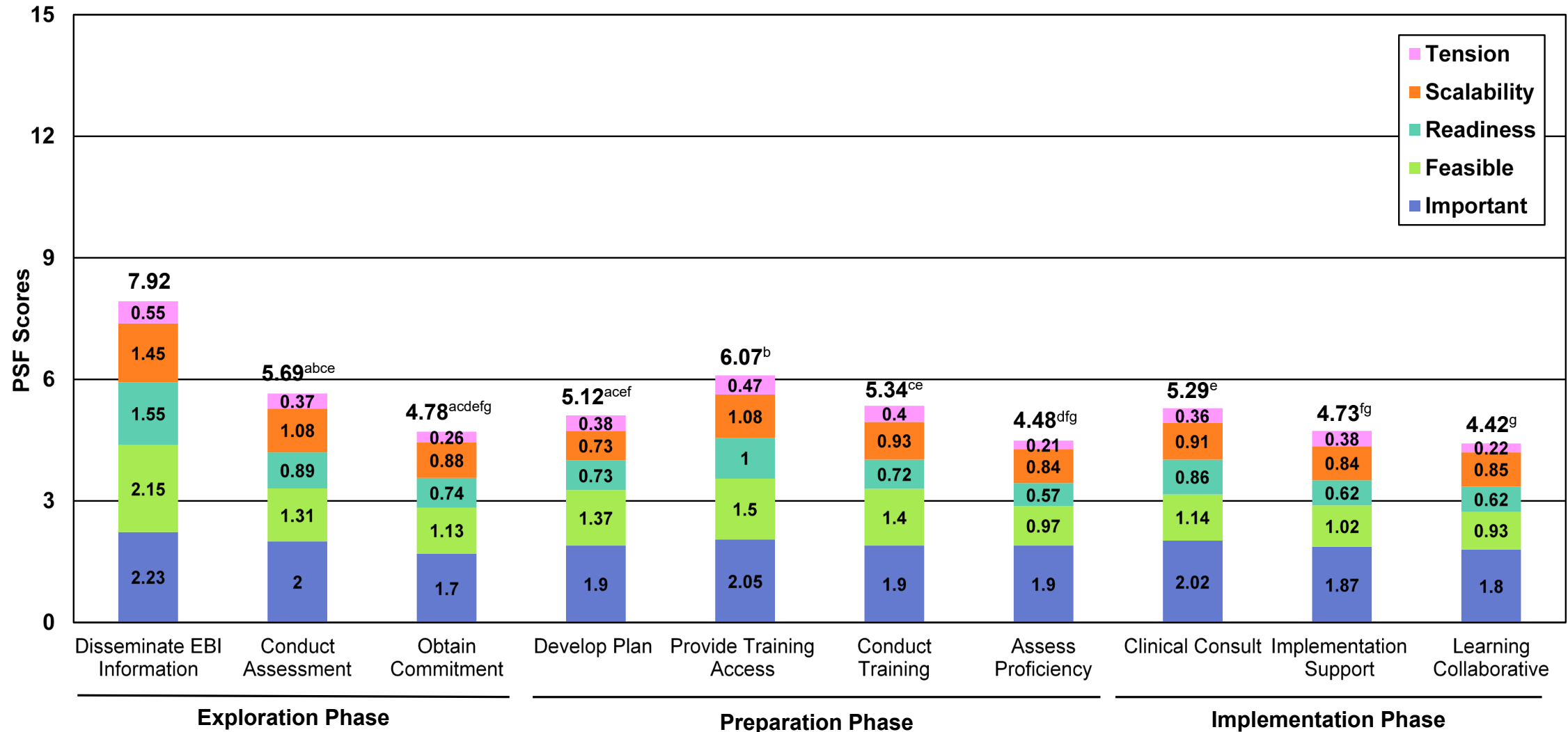
# Purveyor-Strategy Fit Index

- We worked with our AETC and other Technology Transfer Center partners to develop relevant questions that would help us identify which strategies are currently the most promising for AETCs to offer HIV service organizations in their jurisdiction
- We ultimately asked each AETC participant to rate whether the different strategies are **Feasible** and **Important**, whether AETCs are **Ready** to provide them and could do so at **Scale**, and whether AETCs encounter **Tension** to provide them
- Based on responses, we calculated an index score to reflect Purveyor-Strategy Fit (PSF) for each strategy, out of 15

# Purveyor-Strategy Fit Index 2

- **Feasible** – To what extent would it be *feasible (doable)* for your AETC to offer [strategy] to help at least one HIV service organization implement a psychosocial intervention for SUD?
- **Important** – To what extent does your AETC consider [strategy] *important (critical)* for implementing a psychosocial intervention to address substance use disorder (SUD) at HIV service organizations?
- **Readiness** – To what extent is your AETC *ready (prepared)* to offer [strategy] to help at least one HIV service organization implement a psychosocial intervention for SUD during the next quarter?
- **Scalable** – How many of the HIV service organizations served by your AETC could you offer [strategy] to over the next 12 months to support *broad implementation* of a psychosocial intervention for SUD?
- **Tension** – To what extent does your AETC feel *pressure (demand)* to offer [strategy] to support implementation of a psychosocial intervention for SUD at the HIV service organizations you support?

# Purveyor-Strategy Fit index scores and dimension contributions



These findings are being drafted for publication.

# Conclusion and next step

- AETCs are not currently prepared or feel pressure to use effective strategies to support HIV service organizations integrate SUD interventions for PWH
- We are using this input to guide a pragmatic trial seeking to improve integration of SUD interventions into HIV service organizations
  - Participating HIV service organizations will be asked to implement the best fitting SUD intervention (***motivational interviewing***)
  - As the current most promising strategy for AETCs to offer, ***disseminating information*** about motivational interviewing will be the control strategy
  - We will assess how ***ongoing implementation support*** compares to improve implementation consistency and quality
- Better preparing AETCs to offer effective strategies to support integration of SUD interventions into HIV service organizations

# How to claim CE credit

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