

# A Multi-Team Tobacco Treatment Approach: Interdisciplinary Teamwork

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# Learning Outcomes

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1. Discuss the roles of different disciplines in tobacco treatment for people living with mental and behavioral health challenges
2. Describe multi-level approaches for addressing tobacco use reduction and cessation for people living with mental and behavioral health challenges

# Interdisciplinary Team Approach to Deliver Tobacco Treatment



# Our Responsibility

“All smokers with psychiatric disorders, including substance use disorders, should be offered tobacco dependence treatment, and clinicians must overcome their reluctance to treat this population.... Treating tobacco dependence in individuals with psychiatric disorder is made more complex by the potential for multiple psychiatric disorders and multiple psychiatric medications.”

Fiore M, Jaén C, Baker T, et al. *Treating Tobacco Use and Dependence: 2008 Update. Clinical Practice Guideline*. Rockville, MD: U.S. Department of Health and Human Services. Public Health Service. ;2008.



# Tobacco Treatment Challenges in Mental and Behavioral Health Services

<sup>1</sup>Ziedonis D, Hitsman B, Beckham JC, et al. Tobacco use and cessation in psychiatric disorders National Institute of Mental Health report. *Nicotine & Tobacco Research*. 2008;10(12):1691 - 1715.

<sup>2</sup>Prochaska JJ. Smoking and mental illness — breaking the link. *New England Journal of Medicine*. 2011;365(3):196-198

<sup>3</sup>U.S. Department of Health and Human Services. <sup>3</sup>*Eliminating Tobacco Related Health Disparities: Summary Report*. U.S. Department of Health and Human Services, National Institute of Health, National Cancer Institute;2002

<sup>4</sup>Gonzales D, Rennard SI, Nides M, et al. Varenicline, an {alpha}4beta2 Nicotinic Acetylcholine Receptor Partial Agonist, vs Sustained-Release Bupropion and Placebo for Smoking Cessation: A Randomized Controlled Trial. *JAMA*. 2006;296(1):47-55

<sup>5</sup>Koegelenberg CN, Noor F, Bateman ED, et al. Efficacy of varenicline combined with nicotine replacement therapy vs varenicline alone for smoking cessation: A randomized clinical trial. *JAMA*. 2014;312(2):155-161

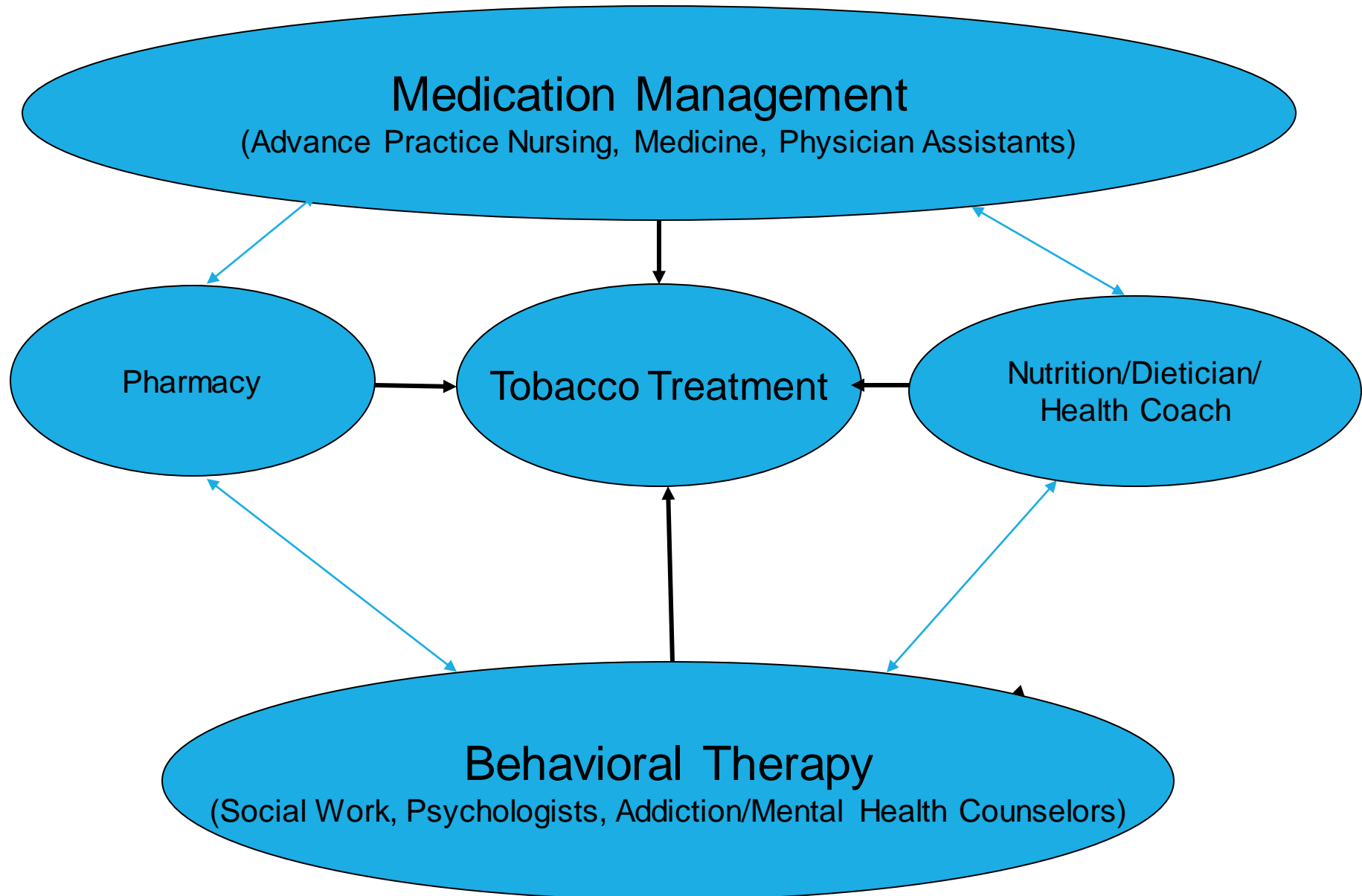
<sup>6</sup>Tønnesen P, Paoletti P, Gustavsson G, et al. Higher dosage nicotine patches increase one-year smoking cessation rates: results from the European CEASE trial. Collaborative European Anti-Smoking Evaluation. European Respiratory Society. *European Respiratory Journal*. 1999;13(2):238-246

<sup>7</sup>Selby P, Voci SC, Zawertailo LA, George TP, Brands B. Individualized smoking cessation treatment in an outpatient setting: Predictors of outcome in a sample with psychiatric and addictions comorbidity. *Addictive Behaviors*. 2010;35(9):811-817

1. Paucity of tobacco treatment delivered in behavioral settings<sup>1,2</sup>
2. Conventional tobacco treatment programs do not address the unique relationship between tobacco use and behavioral health in their treatment approach<sup>3</sup>
3. Current evidence-based pharmacotherapy is equally efficacious for people with and without mental and behavioral health challenges, but may be ineffective as prescribed
  - Pharmacotherapy largely based on efficacy studies that excluded persons with behavioral health issues in their development<sup>4,5,6</sup>
  - Those with behavioral health may need higher doses and longer durations of pharmacotherapy to achieve equitable smoking cessation<sup>7</sup>



# Best Practices using an Interdisciplinary Team Approach



# For Providers Education is Key

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**Provide Tobacco Treatment Content in Healthcare Student Courses**

**Provide Specialized Tobacco Treatment Training to Mental and Behavioral Health Providers and Settings**

# Core competencies for Tobacco treatment Specialists



Tobacco Dependence Knowledge and Education.

Counseling Skills.

Assessment Interview.

Treatment Planning.

Pharmacotherapy.

Relapse Prevention.

Diversity and Specific Health Issues.

Documentation and Evaluation.



# Multi-level Approaches to Address Tobacco Use Reduction and Cessation among People Living with Mental and Behavioral Health Challenges

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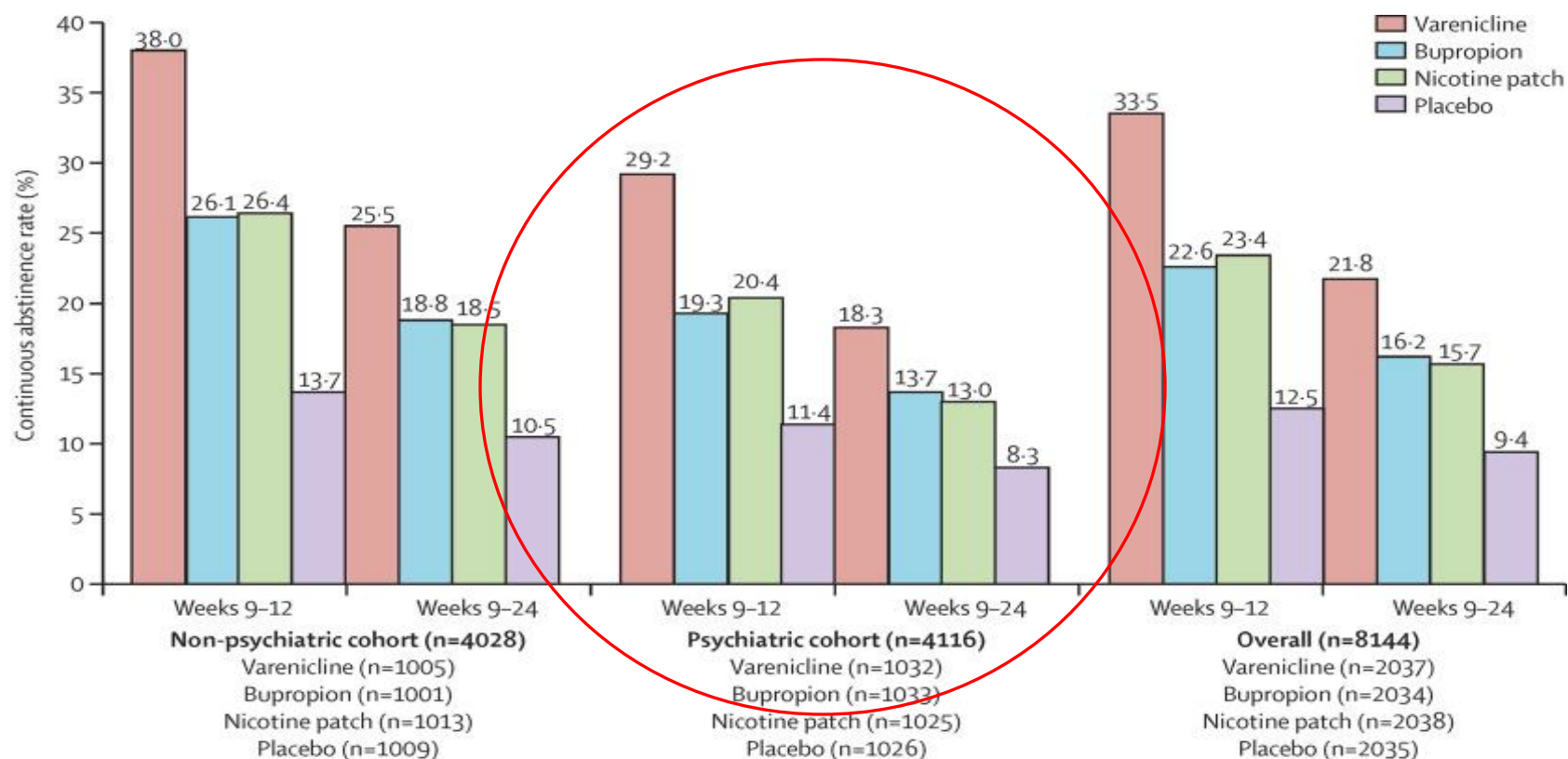
**Socio-ecological Model**



Individual Level Approaches

# RECOMMEND APPROVED PHARMACOTHERAPY

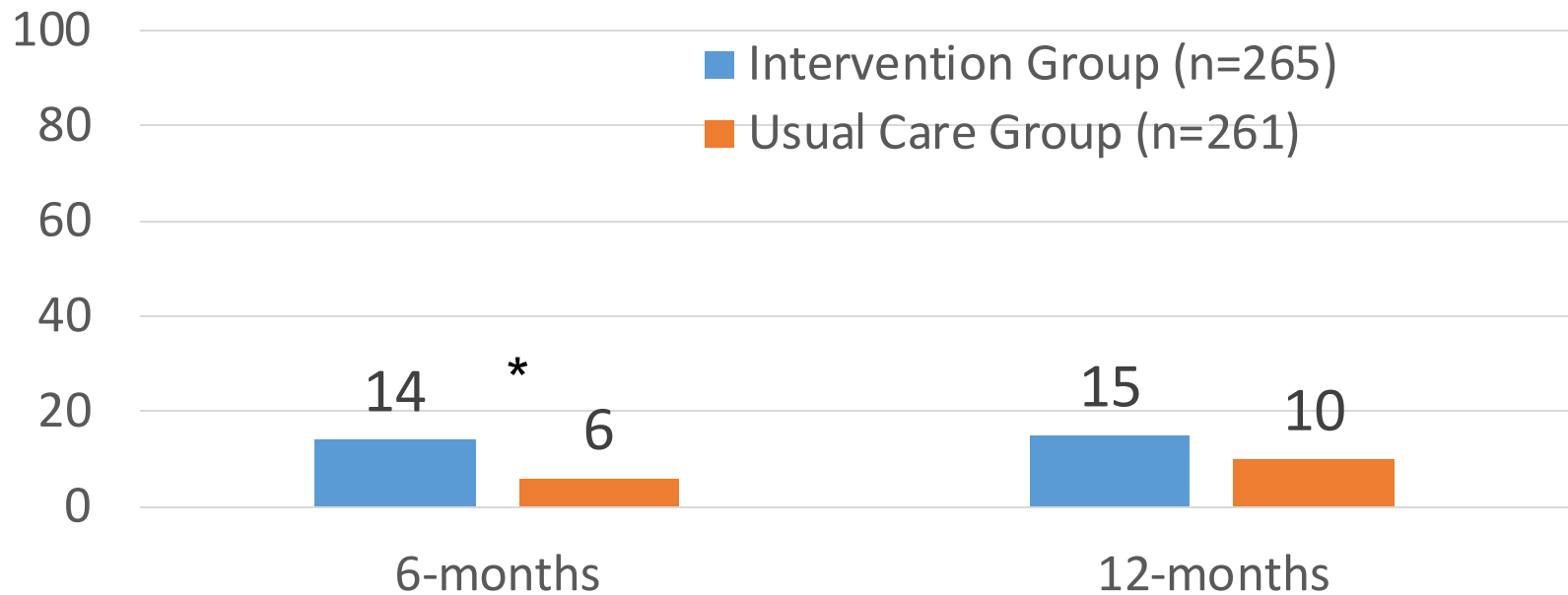
- All those trying to stop tobacco use, except in special circumstances (such as pregnancy), should be provided pharmacotherapy
- First-line pharmacotherapy – nicotine replacement (patch, gum, lozenge, inhaler, nasal spray) and Oral medications (bupropion SR, Varenicline)
- Individuals with MI may require **higher dosages** and **longer durations** of medications than specified on the product monographs because of greater tobacco consumption and nicotine dependence.



| OR (95% CI) p value           | Weeks 9-12                   | Weeks 9-24                   | Weeks 9-12                   | Weeks 9-24                   | Weeks 9-12                   | Weeks 9-24                   |
|-------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| <b>Primary comparisons</b>    |                              |                              |                              |                              |                              |                              |
| Varenicline vs placebo        | 4.00 (3.20-5.00)<br>p<0.0001 | 2.99 (2.33-3.83)<br>p<0.0001 | 3.24 (2.56-4.11)<br>p<0.0001 | 2.50 (1.90-3.29)<br>p<0.0001 | 3.61 (3.07-4.24)<br>p<0.0001 | 2.74 (2.28-3.30)<br>p<0.0001 |
| Bupropion vs placebo          | 2.26 (1.80-2.85)<br>p<0.0001 | 2.00 (1.54-2.59)<br>p<0.0001 | 1.87 (1.46-2.39)<br>p<0.0001 | 1.77 (1.33-2.36)<br>p<0.0001 | 2.07 (1.75-2.45)<br>p<0.0001 | 1.89 (1.56-2.29)<br>p<0.0001 |
| <b>Secondary comparisons</b>  |                              |                              |                              |                              |                              |                              |
| Nicotine patch vs placebo     | 2.30 (1.83-2.90)<br>p<0.0001 | 1.96 (1.51-2.54)<br>p<0.0001 | 2.00 (1.56-2.55)<br>p<0.0001 | 1.65 (1.24-2.20)<br>p=0.0007 | 2.15 (1.82-2.54)<br>p<0.0001 | 1.81 (1.49-2.19)<br>p<0.0001 |
| Varenicline vs nicotine patch | 1.74 (1.43-2.10)<br>p<0.0001 | 1.52 (1.23-1.89)<br>p=0.0001 | 1.62 (1.32-1.99)<br>p<0.0001 | 1.51 (1.19-1.93)<br>p=0.0008 | 1.68 (1.46-1.93)<br>p<0.0001 | 1.52 (1.29-1.78)<br>p<0.0001 |
| Bupropion vs nicotine patch   | 0.98 (0.80-1.20)<br>p=0.8701 | 1.02 (0.81-1.28)<br>p=0.8645 | 0.94 (0.75-1.16)<br>p=0.5467 | 1.07 (0.83-1.39)<br>p=0.5824 | 0.96 (0.83-1.11)<br>p=0.5797 | 1.04 (0.88-1.24)<br>p=0.6002 |
| Varenicline vs bupropion      | 1.77 (1.46-2.14)<br>p<0.0001 | 1.49 (1.20-1.85)<br>p=0.0003 | 1.74 (1.41-2.14)<br>p<0.0001 | 1.41 (1.11-1.79)<br>p=0.0047 | 1.75 (1.52-2.01)<br>p<0.0001 | 1.45 (1.24-1.70)<br>p<0.0001 |

# COUNSELING APPROACHES

- There is a dose-response relationship between **intensity** of tobacco dependence counselling and its effectiveness
- Three types of counselling are particularly effective:
  - Practical counselling (direct treatment)
  - Support
  - Helping to secure support outside of treatment



Percent differences in outcomes of a behavioral counseling program for people with mental and behavioral health challenges: Bespoke Intervention



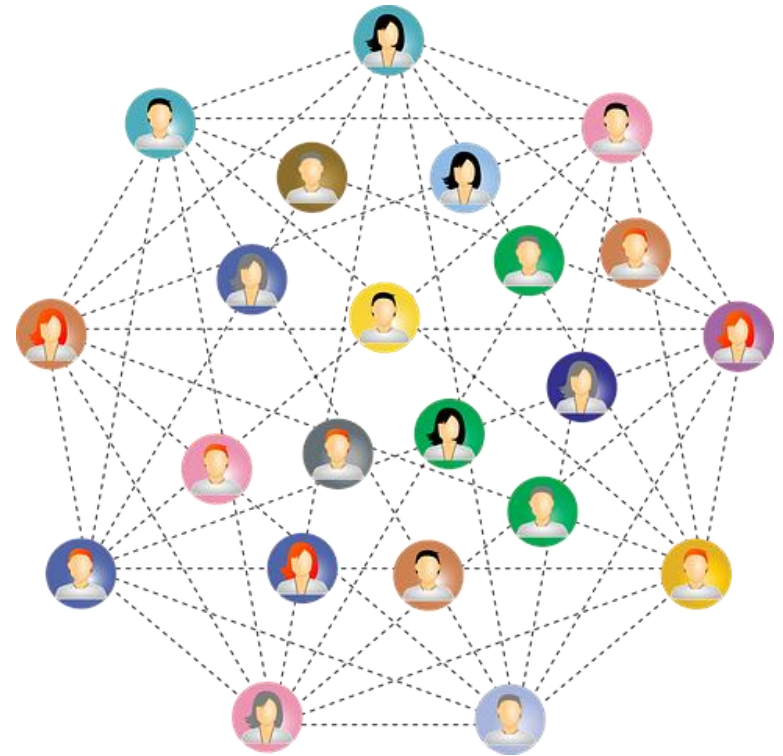


Interpersonal Level Approaches

# Former smokers can help current smokers with SMI to stay abstinent after treatment

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*“The presence of former smokers in the network was associated with decreased odds that the ego was smoking post-treatment.”*





# Support for cessation from Family and Friends

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- 1) Practical support (e.g., purchasing medications for cessation)
- 2) Emotional support (e.g., encouraging their cessation progress)
- 3) Changing smoking behaviors while around those trying to stop (e.g., not smoking around them or offering them cigarettes).



## Organizational Level Approaches



# TREATMENT APPROACHES: BRIEF CLINICAL INTERVENTIONS



It is essential to  
provide at least a  
brief intervention to  
ALL tobacco users at  
EACH clinical visit



Patients willing to try  
to stop using tobacco  
should be provided  
treatments



Patients unwilling to stop  
should be provided with a  
brief intervention designed to  
increase their motivation

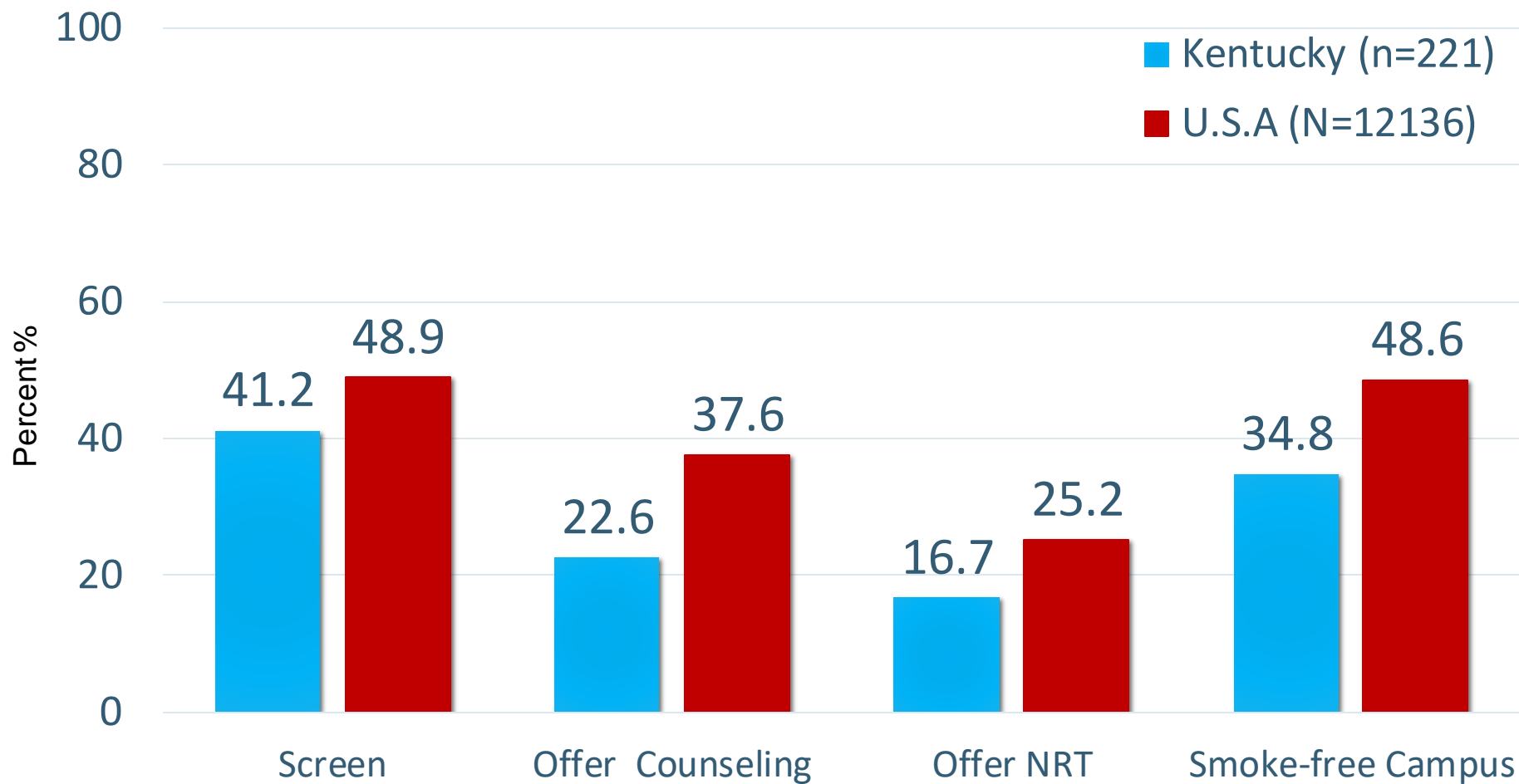
|                 |  |
|-----------------|--|
| <b>ASK:</b>     | About tobacco use                            |
| <b>ADVISE:</b>  | Every tobacco user to quit                   |
| <b>ASSESS:</b>  | Assess readiness to quit                     |
| <b>ASSIST:</b>  | Self-help material, offering pharmacotherapy |
| <b>ARRANGE:</b> | Follow up or referral                        |

## THE 5 “A’S” FOR BRIEF INTERVENTION

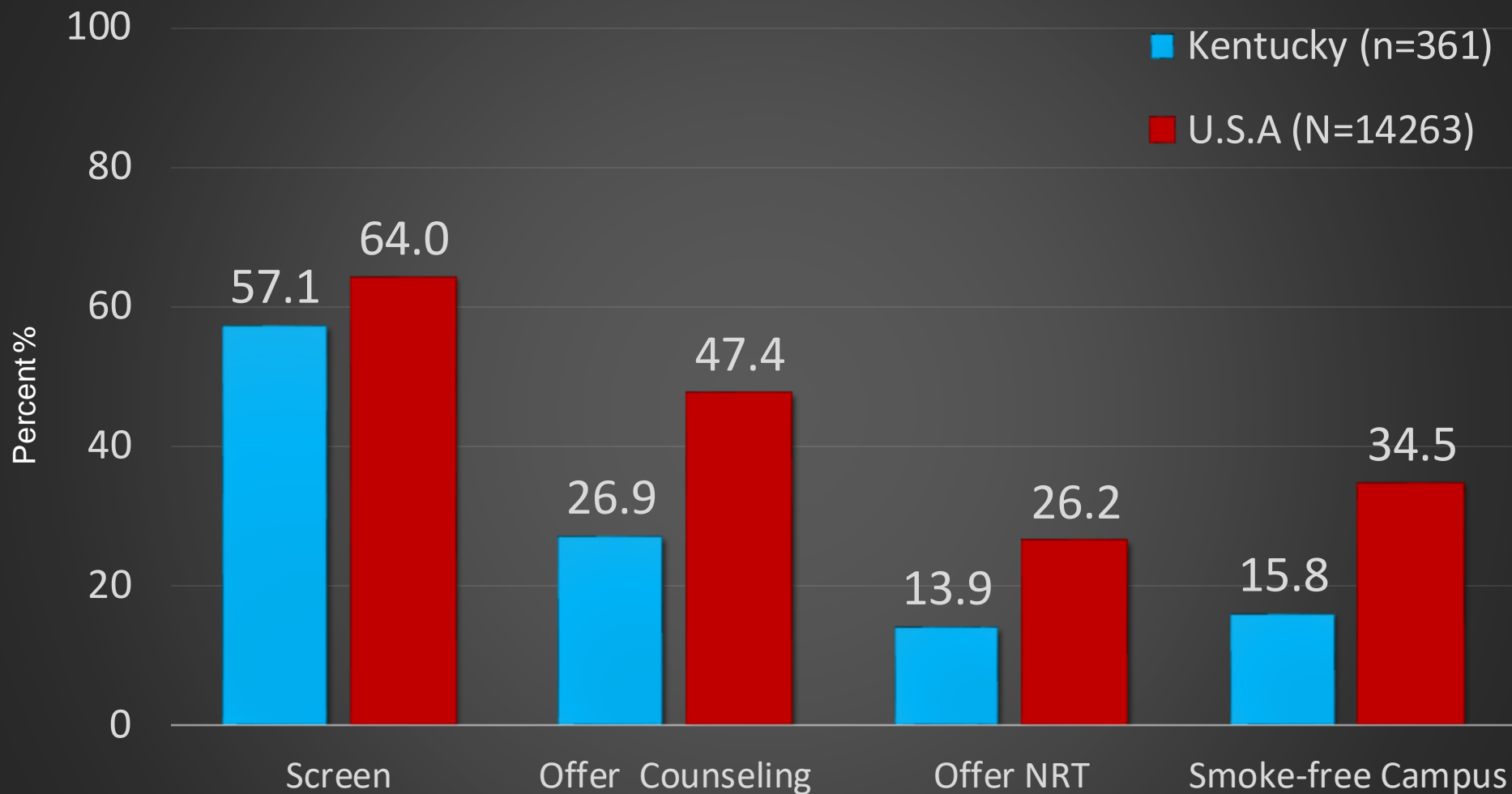
Fiore, M. C., Jaen, C. R., Baker, T., Bailey, W. C., Benowitz, N. L., Curry, S. E. E. A., ... & Henderson, P. N. (2008). Treating tobacco use and dependence: 2008 update. *Rockville, MD: US Department of Health and Human Services.*

Siu, A. L. (2015). Behavioral and Pharmacotherapy Interventions for Tobacco Smoking Cessation in Adults, Including Pregnant Women: US Preventive Services Task Force Recommendation Statement USPSTF Recommendation Statement for Interventions for Tobacco Smoking Cessation. *Annals of internal medicine*, 163(8), 622-634.





## Percentage of Mental Health Treatment Facilities Engaged in Tobacco Control Efforts (2016)



## Percentage of Substance Use Treatment Facilities Engaged in Tobacco Control Efforts (2016)

# CDC Recommendations for Behavioral Health Settings

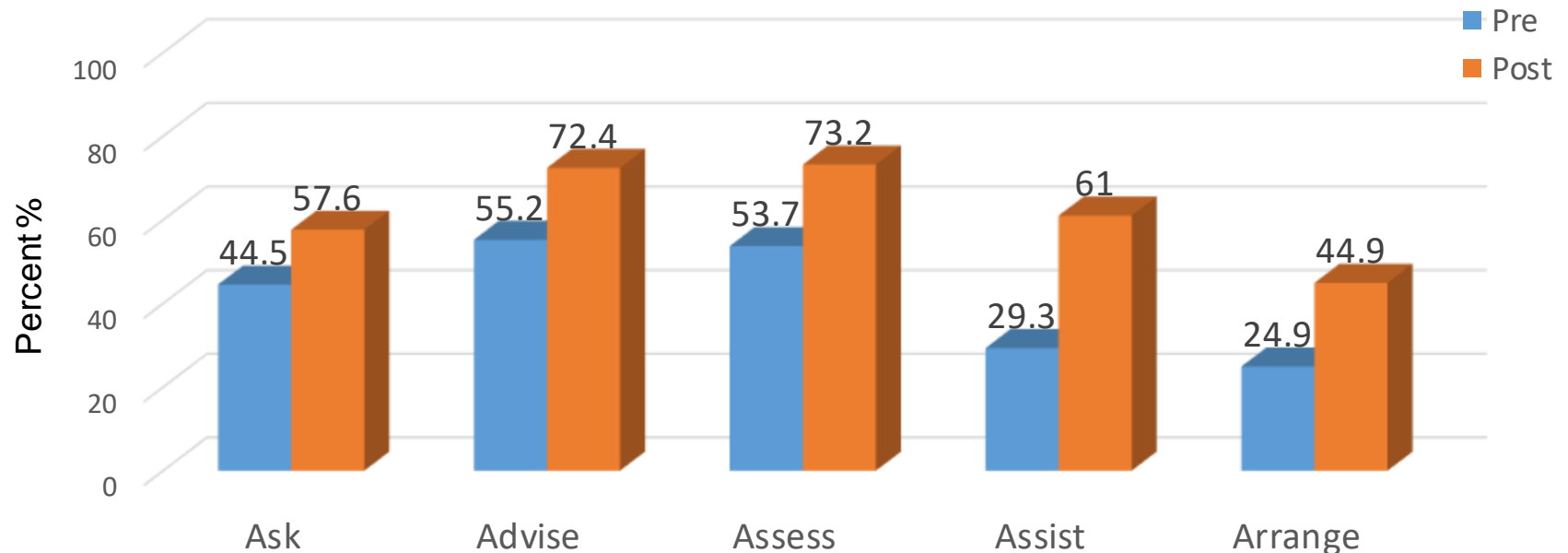
- ✓ ☐ Stopping practices that encourage tobacco use (such as not providing cigarettes to patients and not allowing staff to smoke with patients)
- ✓ ☐ Making entire campus 100% tobacco-free
- ✓ ☐ Including tobacco treatment as part of mental health treatment and wellness

# Case Example: Taking Texas Tobacco Free (TTTF)

Initiative in Texas to:

1. Implementing/enforcing tobacco-free workplace policy;
2. Educating staff on hazards of tobacco use and exposure
3. Training clinicians to routinely screen/treat tobacco dependence
4. Resource provision to clinics (e.g., nicotine replacement, workplace signage, education materials)
5. Community outreach to support tobacco-free living for clients

Changes in implementation of the 5As after a 6-Month implementation period



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# Community Based Approaches

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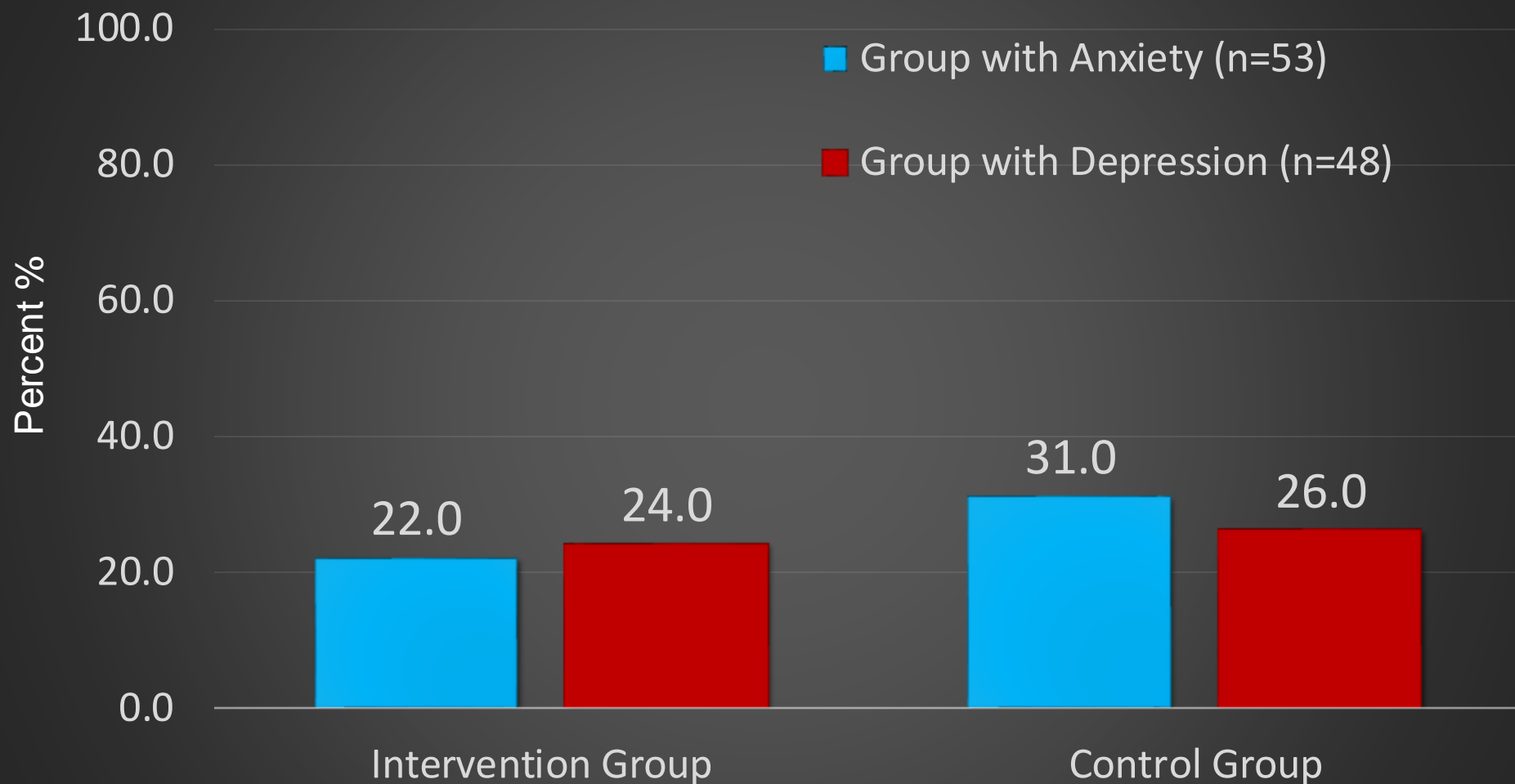


Quitline

Community  
tobacco treatment  
programs

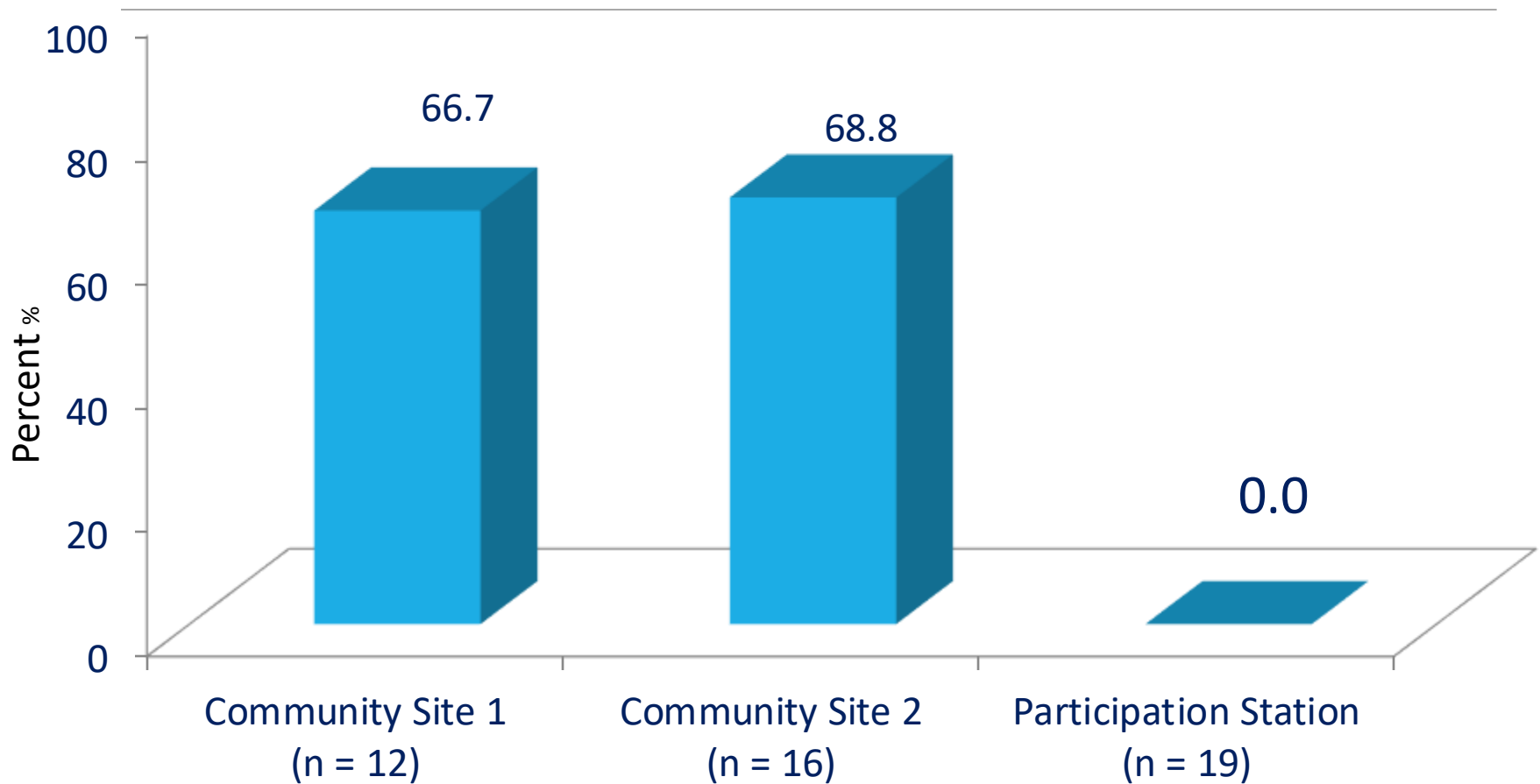
Incentives/Quit  
and win contests

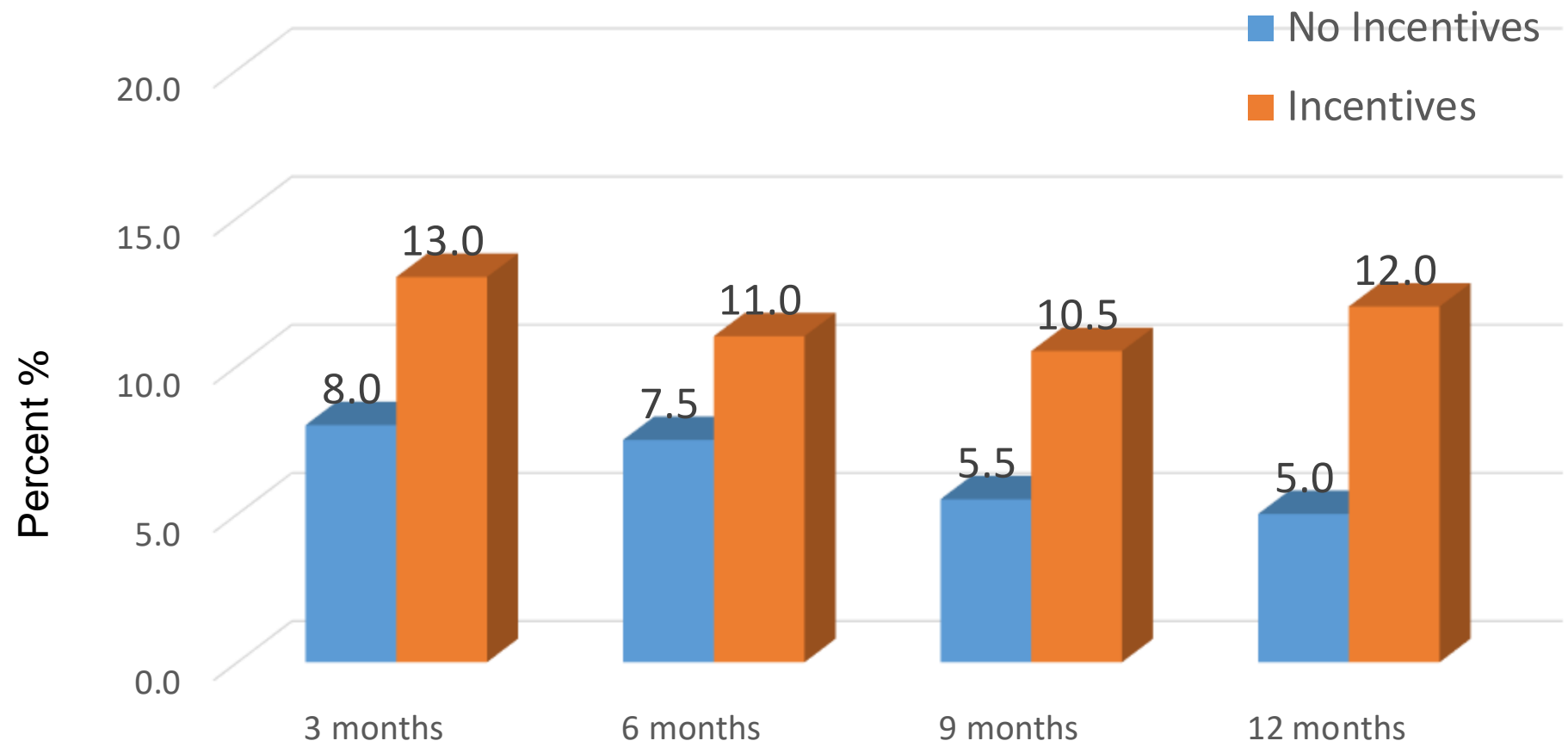




Percentage of participants achieving 6-months abstinence among tailored and regular Quitline users

# Smoking Cessation Outcomes of a Community-Based Tobacco Treatment Program delivered in Community Mental Health and Non-Mental Health Sites





## Tobacco Treatment Outcomes of a Contingency-Incentive intervention delivered in Community Mental Health Clinics

# Behavioral Health Quit and Win Contest

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| Setting | Time Period | Enrolled | Quit (%)  |
|---------|-------------|----------|-----------|
| Site 1  | March 2020  | 7        | 1 (14.3%) |
| Site 2  | April 2022  | 16       | 3 (18.8%) |
| Site 3  | April 2022  | 6        | 0 (0.0%)  |



**NO  
SMOKING**

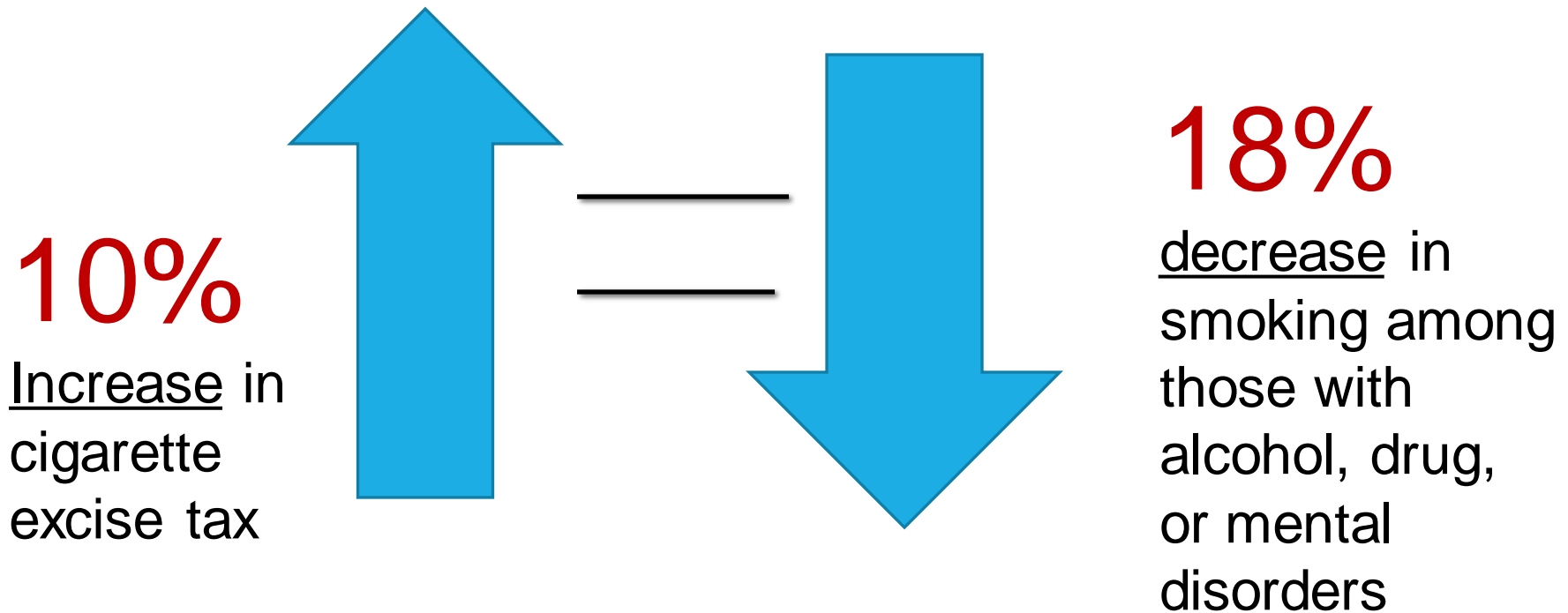
*Thank You*

Public Policy Level Approaches

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# Effect of Excise Taxes on People with Mental and Behavioral Health Challenges

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# Tobacco-Free Policy in Permanent Supportive Housing

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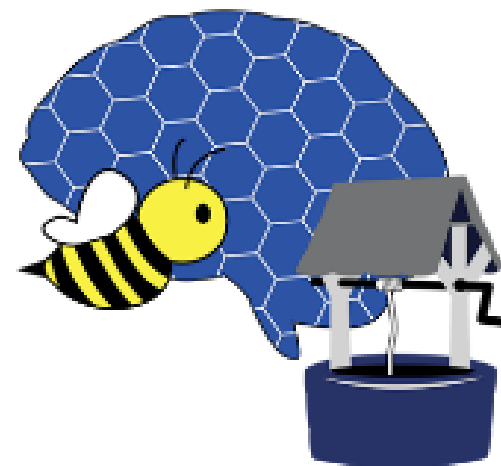
## After Tobacco-Free Policy

- Decrease in indoor smoking (by 59.7%)
- Decrease in proportion of residents identifying as current smokers
- Increased support for the policy even among current smokers
- No change in residents who smoked

# Conclusions

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- ❑ Addressing tobacco use among people living with mental and behavioral health challenges often requires an interdisciplinary team approach
- ❑ Assessing multi-level tobacco control initiatives provides insight into approaches that can be further explored for this population
- ❑ Engagement in tobacco control efforts across disciplines and at multiple levels can be instrumental in addressing the disproportionate tobacco use prevalence, morbidity, and mortality among those living with mental and behavioral health challenges.



Thank you for your time and attention!