

Addressing Tobacco Treatment in Mental and Behavioral Health Settings

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The logo for Eastern State Hospital. It features the text 'Eastern State Hospital' in a large, blue, serif font. Below this, the text 'MANAGED BY UK HEALTHCARE' is written in a smaller, blue, sans-serif font. The entire logo is enclosed in a thin green rectangular border.

Goals of this presentation

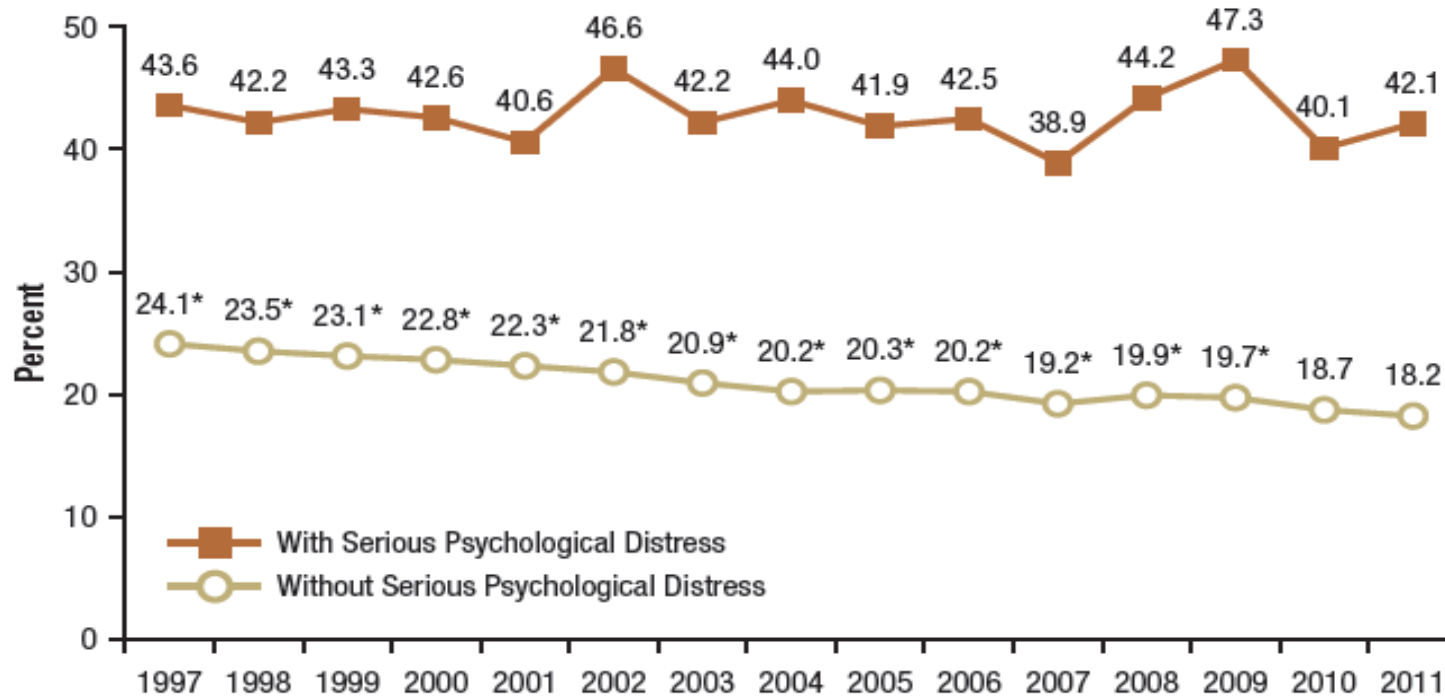
- Describe tobacco use among persons living with mental and behavioral health challenges
- Explain best practices in addressing tobacco treatment in behavioral health settings
- Discuss toolkits and resources to enhance engaging behavioral health organizations in adopting tobacco free policies and treatment

Why Engage Persons with mental and behavioral health challenges in Tobacco Treatment?



Little decline in smoking prevalence among those with mental illnesses

Current Smoking among Adults Aged 18 or Older, by Past Month Serious Psychological Distress Status: NHIS, 1997 to 2011



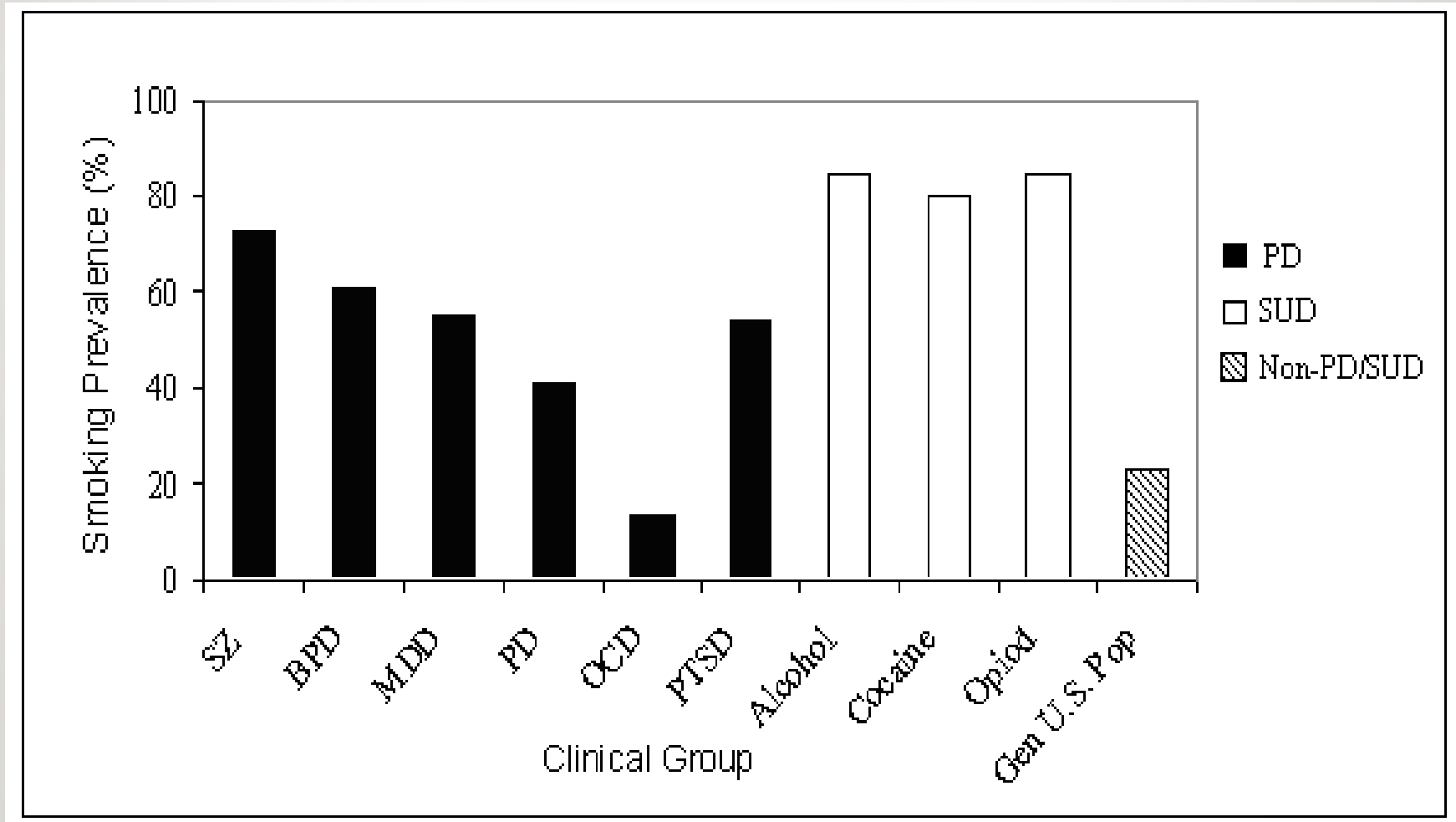
* Difference between estimate and estimate for 2011 is statistically significant at the .05 level.

US Department of Health and Human Services. (2014). The health consequences of smoking—50 years of progress: a report of the Surgeon General. Atlanta, GA

Data from the National Health Interview Survey. Current smoking is defined as those who had smoked 100 cigarettes in their lifetime and smoked daily or some days at time of the interview. This illustration was obtained with permission from the SAMHSA CBHSQ Report, July 18

2013:http://www.samhsa.gov/data/sites/default/files/spot120-smokingspd_/spot120-smokingSPD.pdf

Prevalence of Smoking by MI/SUD Disorder



Kalman, Morissette, & George. "Co-Morbidity of Smoking in Patients with Psychiatric and Substance Use Disorders." *The American journal on addictions / American Academy of Psychiatrists in Alcoholism and Addictions* 14.2 (2005): 106–123. PMC. Web. 7 Mar. 2016

Effects of smoking among persons with MI/SUD

Smokers with MI/SUD:

- Die 10-25 years earlier
- Have more depression and anxiety
- Have more substance use problems
- Have more cardiovascular and cardiopulmonary problems
- Are more likely to commit suicide
- Have sexual problems

Nonsmokers with MI/SUD:

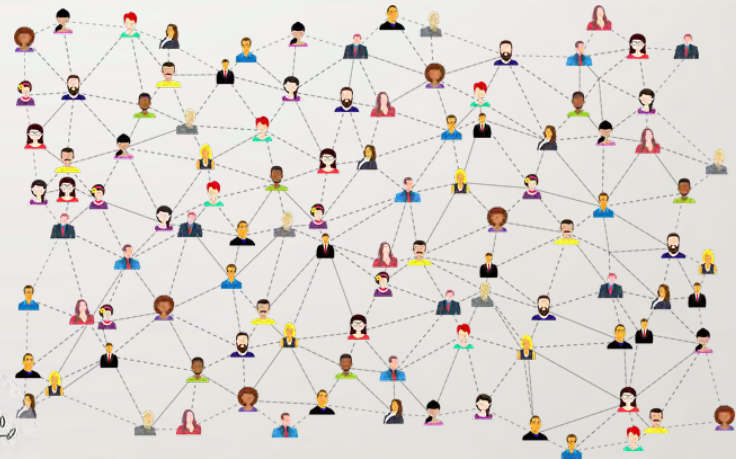
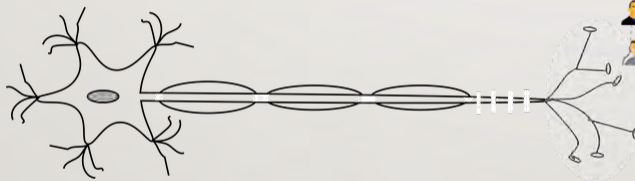
- Have better health
- Live longer
- Need less medication
- Have less depression
- Save more money

Smoking is the leading cause of death in individuals with mental illness and substance use disorders!



Smoking tobacco causes more deaths among clients in substance abuse treatment than the alcohol or drug use that brings them to treatment. A seminal 11-year retrospective cohort study of 845 people who had been in addictions treatment found that 51 percent of deaths were the result of tobacco-related causes.¹ This rate is twice that found in the general population and nearly 1.5 times the rate of death by other addiction-related causes. Despite these statistics, most substance abuse treatment programs do not address smoking cessation.

Why do people with MI/SUD use tobacco?



<https://pixabay.com/>

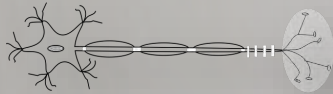
Reasons for smoking among persons with MI

Genetic



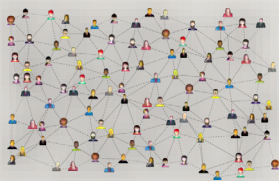
- Smoking and **major depression** ^{1,2}
- Nicotine dependence and **PTSD** ³
- Smoking behaviors and **schizophrenia** ⁴

Bio-behavioral



- Nicotine reduces **sensorimotor gating** in schizophrenia ⁵
- Smoking reduces brain levels of **MAO-A** (an enzyme linked to depression) ⁶
- Nicotine may be an **anxiolytic** ⁷

Psychosocial



- Smoking used as a **'token economy'** in mental health facilities ⁸
- Smoking encouraged as a means of **enhancing 'socialization'** among patients⁹

1. Kendler, et al. Smoking and Major Depression: A Causal Analysis. Archives of General Psychiatry 1993; 50:36-43
2. Lyons, et al. A twin study of smoking, nicotine dependence, and major depression in men. Nicotine & Tobacco Research 2008; 10:97 – 108
3. Koenen, et al. A Twin Registry Study of the Relationship Between Posttraumatic Stress Disorder and Nicotine Dependence in Men. Arch Gen Psych 2005; 62:1258-1265
4. Faraone, et al. (2004). A novel permutation testing method implicates sixteen nicotinic acetylcholine receptor genes as risk factors for smoking in Schizophrenia families
5. Postma, et al. (2006). Psychopharmacology, 184: 589–599
6. Fowler, et al. (1996). Proceedings of the National Academy of Sciences of the United States of America, 93:14065-14069
7. McCabe, et al. (2004). Journal of Anxiety Disorders, 18:7-18
8. Lawn S. Cigarette smoking in psychiatric settings: occupational health, safety, welfare and legal concerns. Australian and New Zealand J Psych 2005; 39:886-891
9. Kawachi I, Berkman L. Social ties and mental health. Journal of Urban Health 2001; 78:458-467

Reasons to treat tobacco use in persons with MI

They WANT to quit!	Siru et al., 2009	Review study (9 studies)	<ul style="list-style-type: none"> • 50% contemplating cessation
	Stockings et al., 2013	Australia (97 inpatients)	<ul style="list-style-type: none"> • 47% made quit attempt in previous year
	Du Plooy, et al., 2016	South Africa (116 male inpatients)	<ul style="list-style-type: none"> • 59.4% attempted to quit in the previous year
They ARE ABLE to quit!	Anthenelli et al., 2016	RCT (8144 with & without MI)	<ul style="list-style-type: none"> • Pharmacotherapy (VAR, BUP, NRT) superior to placebo in both groups
	Prochaska et al., 2013	RCT (224 inpatient smokers)	<ul style="list-style-type: none"> • Motivational counseling + NRT initiated in hospital increased quitting success
Cessation IMPROVES Psychiatric symptoms	Taylor et al., 2014	Meta-analysis (26 studies)	<ul style="list-style-type: none"> • Cessation associated with improvements in depression, anxiety, stress, mood and quality of life

1. Siru, R.; Hulse, G.K.; Tait, R.J. Assessing motivation to quit smoking in people with mental illness: A review. *Addiction* **2009**, *104*, 719-733

2. Stockings, et al. Readiness to quit smoking and quit attempts among Australian mental health inpatients. *Nicotine & Tobacco Research* **2013**, *15*, 942-949.

3. Du Plooy, et al. (2016). Cigarette smoking, nicotine dependence, and motivation to quit smoking in South African male psychiatric inpatients. *BMC psychiatry*, *16*(1), 403.

4. Anthenelli, et al. (2016). Neuropsychiatric safety and efficacy of varenicline, bupropion, and nicotine patch in smokers with and without psychiatric disorders (EAGLES): a double-blind, randomised, placebo-controlled clinical trial. *The Lancet*, *387*(10037), 2507-2520. doi:10.1016/S0140-6736(16)30272-0

5. Prochaska, et al. Efficacy of initiating tobacco dependence treatment in inpatient psychiatry: A randomized controlled trial. *Am J Public Health* **2013**, *104*, 1557-1565

6. Taylor, et al. (2014). Change in mental health after smoking cessation: systematic review and meta-analysis. *Bmj*, *348*, g1151

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.”




(Treating Tobacco Use and Dependence: 2008 Update. Clinical Practice Guideline)



Where to begin?



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

Eastern State Hospital Tobacco Treatment Services



1. Okoli, C.T., Shelton, C., Khara, M. (in preparation). Predictors of tobacco use among inpatients in a psychiatric hospital
2. Okoli, C.T., Al-Myrazat, Y., Stead, B. (under review). The effect of implementing a tobacco treatment service on adherence to evidence-based practice in an inpatient state-owned psychiatric hospital. *The American Journal on Addictions*
3. Okoli, C. T., Otachi, J. K., Kaewbua, S., Woods, M., & Robertson, H. (2017). Factors Associated With Staff Engagement in Patients' Tobacco Treatment in a State Psychiatric Facility. *Journal of the American Psychiatric Nurses Association*, 1078390317704045.
4. Okoli, C. T., Otachi, J. K., Manuel, A., & Woods, M. (2017). A cross-sectional analysis of factors associated with the intention to engage in tobacco treatment among inpatients in a state psychiatric hospital. *Journal of psychiatric and mental health nursing*.

ESH Tobacco Treatment Services Approach

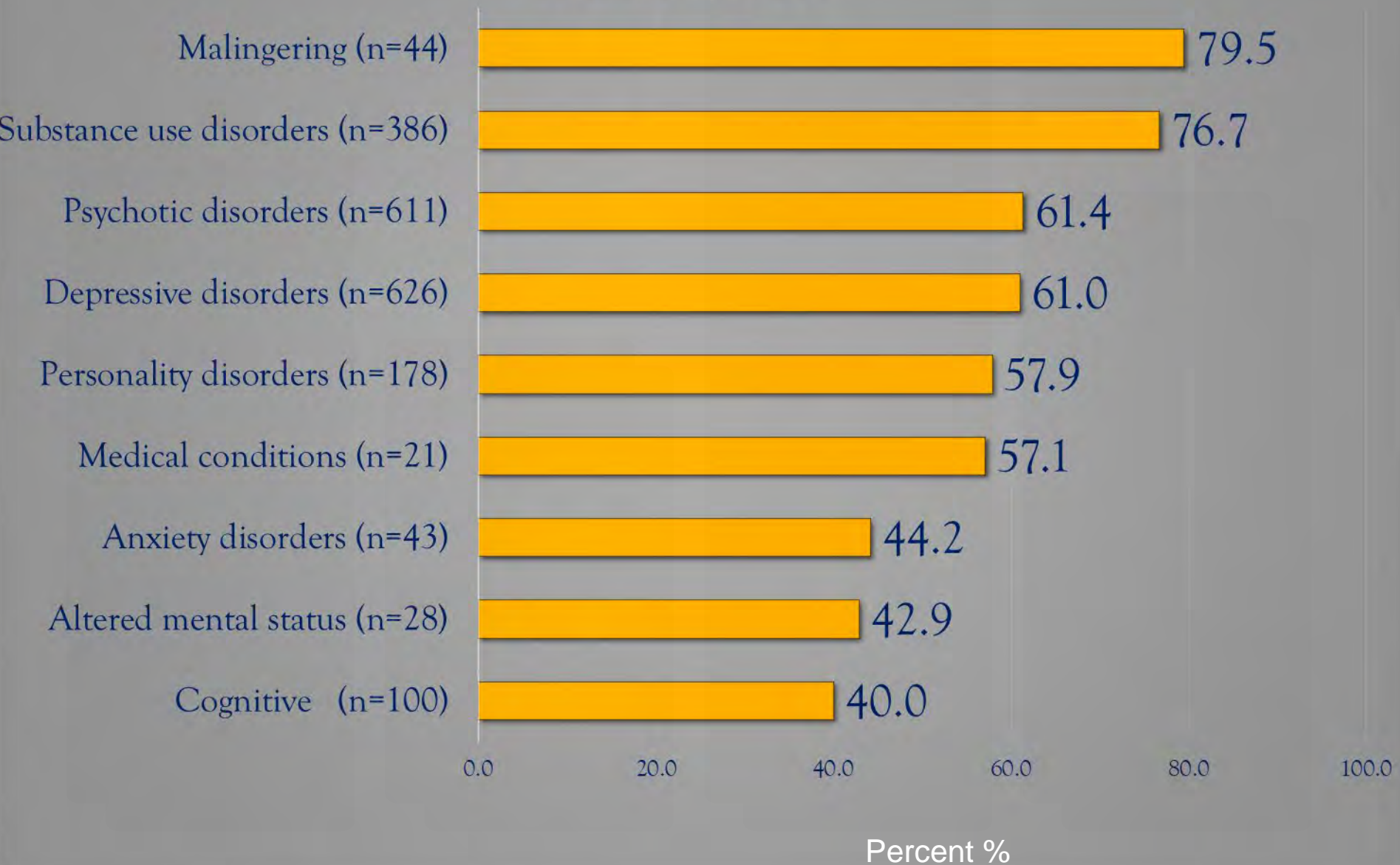
Patient identified as a tobacco user at admission

Admitting Physician/APP offers appropriate NRT

Tobacco Treatment Nurse provides follow-up assessment on unit

1. Assesses nicotine withdrawal, motivation to quit, and stage of change
2. Make recommendations to care team for tobacco treatment plan
 - a) Adjustment of tobacco cessation medication
 - b) Attend tobacco dependence education or cessation group (based on SOC)

Tobacco use by diagnosis among non-repeat admissions in 2016 (n = 2037)



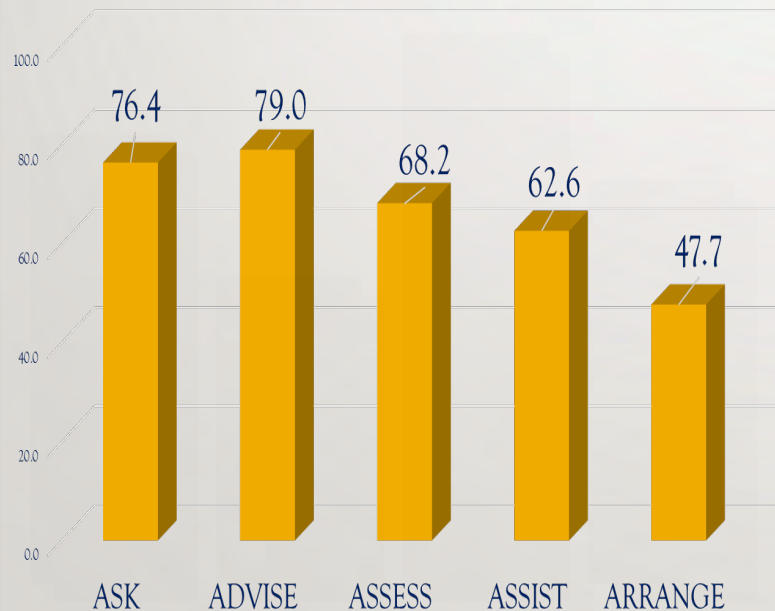
Changes in screening for tobacco use and provision of nicotine replacement and practical counseling by 4-month intervals (Sept 2015-Dec 2016)



ESH Needs Assessment Results (Survey Patients and Providers, 2016-2017)

Providers (n=195):

- Intention to treat was related to 'subjective norms'
- Likely to ask, not likely to arrange



Patients (n=115):

- Intention to engage in treatment related to 'subjective norms'
- Often asked, not often 'assisted'



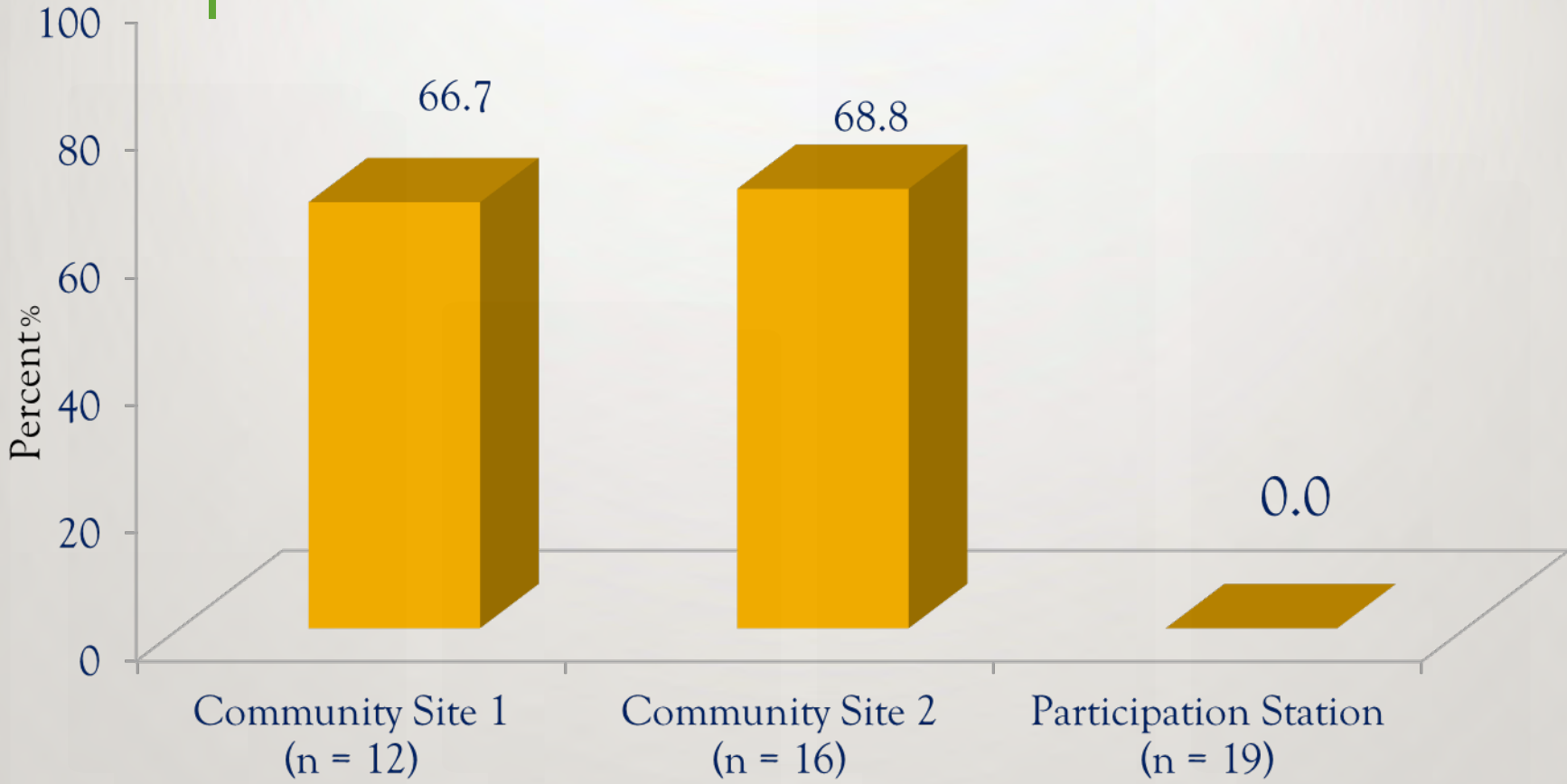
Cooper-Clayton Stop Smoking Program ©

Participation Station, Lexington, KY



1. Okoli, C. T., Mason, D. A., Brumley-Shelton, A., & Robertson, H. (2017). Providing Tobacco Treatment in a Community Mental Health Setting: A Pilot Study. *Journal of addictions nursing*, 28(1), 34-41.

Smoking cessation outcomes by treatment site (intent-to-treat)

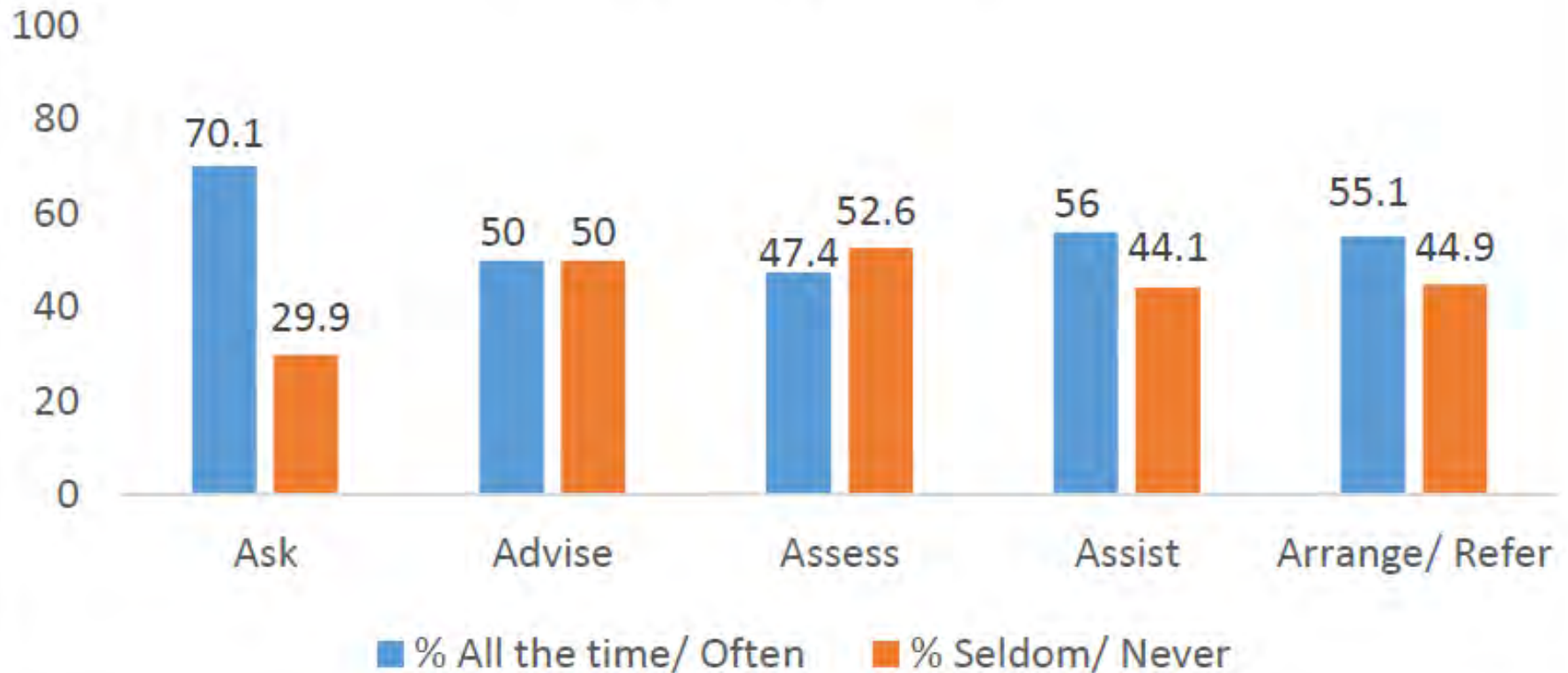


Kentucky Community Mental Health Center Tobacco Policy and Treatment Survey 2019-2020

Table 1. Key findings from the CMHC's provider policy survey (N = 159)		
	n	%
Provider Role		
Manager/ Supervisor	82	51.6
Staff Member	49	30.8
Healthcare Provider	28	17.6
Facility has "No Smoking" signs displayed	92	57.9
Facility has a written policy restricting tobacco product use	131	82.4
• Policy highlights impact of tobacco use on physical health	29	18.2
• Policy highlights impact of tobacco use on mental health	14	8.8
Facility provides tobacco treatment services	45	28.3
Facility interested in training on tobacco free policy	81	50.9
Facility interested in tobacco treatment specialist training	88	55.3
Facility interested in community tobacco treatment referral resources	106	66.7

Community Mental Health Center Tobacco Policy and Treatment Survey 2019-2020

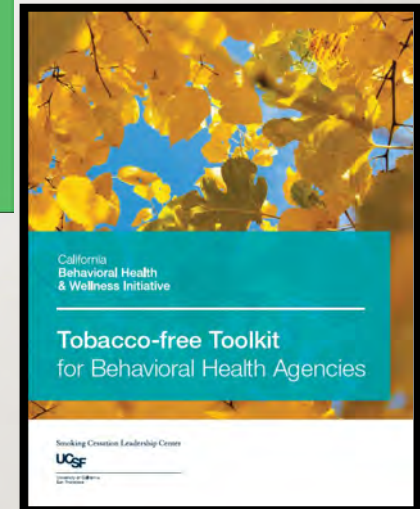
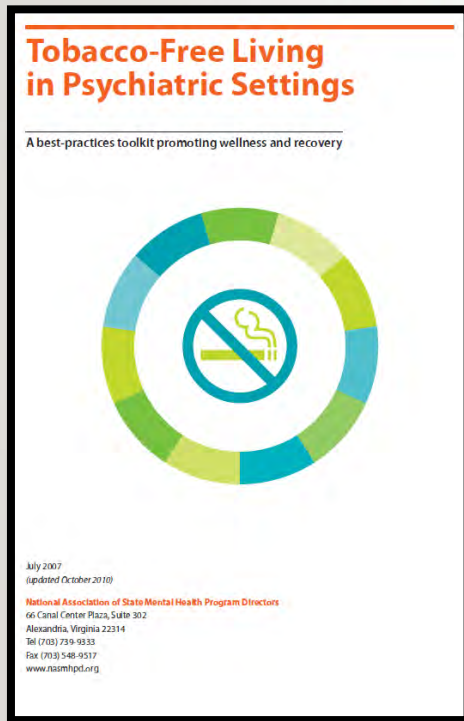
Brief Interventions



Conclusions

- Tobacco use is a leading cause of morbidity and mortality for those with MI
- Tobacco users with MI **WANT** to and **CAN** stop using tobacco—they need evidence-based assistance
- In the outpatient setting, those with MI often require more intensive treatment (**longer durations** and possibly **higher doses** on medications) to optimize cessation.
- Efforts should be made to promote tobacco treatment **as a normative behavior** within inpatient psychiatric settings.
- Direct care staff should be **trained** in evidence-based tobacco treatment, particularly assessing, assisting, and following-up (or referring) tobacco using patients

Tool-kits tailored to Behavioral Health Settings



https://www.samhsa.gov/sites/default/files/programs_campaigns/samhsa_hrsa/tobacco-free-psychiatric-settings.pdf

https://smokingcessationleadership.ucsf.edu/sites/smokingcessationleadership.ucsf.edu/files/Downloads/Toolkits/nasmhpd_toolkit_updated_april_2011.pdf

<https://smokingcessationleadership.ucsf.edu/sites/smokingcessationleadership.ucsf.edu/files/Downloads/Toolkits/TF-Toolkit-Supp-Behavioral-Health.pdf>

<https://www.publichealthlawcenter.org/sites/default/files/resources/Kansas-Tobacco-Guideline-Behavioral-Health-Care-Toolkit-Dec2018.pdf>

Going Tobacco Free: Key Considerations

Policy Development

- TF work group
- Baseline survey
- TF policy review
- Educate community partners
- Draft Policy
 - Language
 - Clear definitions
 - Enforcement
 - Realistic timeline

Organization Preparation

- Disseminate reason for policy
- Tobacco Treatment process for Clients & Staff
- Staff buy-in procedures
- Educate clients and staff
- Solicit feedback
- Create signage
- Promotional material
- Remove cigarette receptacles/ashtrays

Policy Implementation

- Post signage in facility/grounds
- Ensure compliance with policy
- Celebrate implementation day

Monitoring and Assessment

- Conduct follow-up surveys
- Compare pre-post policy health costs
- Determine changes in tobacco use



BH WELL

Working to promote behavior health and wellness among individuals facing behavioral health challenges.

www.uky.edu/bhwell

Behavioral Health Wellness Environments for Living and Learning (BHWELL) <https://www.uky.edu/bhwell/>



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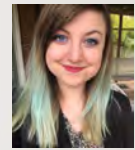
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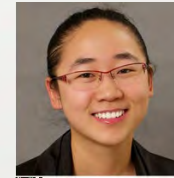


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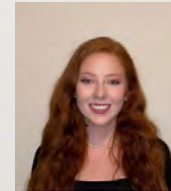


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