Nursing leadership in addressing mental health inequalities: managing tobacco addiction in psychiatric inpatients

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Eastern State Hospital MANAGED BY UK HEALTHCARE

Objectives

- 1. Describe the significance of tobacco use and mental illness (MI)
- 2. Explain evidence-based guidelines for addressing tobacco use
- 3. Describe the Tobacco Treatment Services (TTS) at Eastern State Hospital (ESH)
- 4. Discuss nicotine withdrawal management outcomes of the TTS



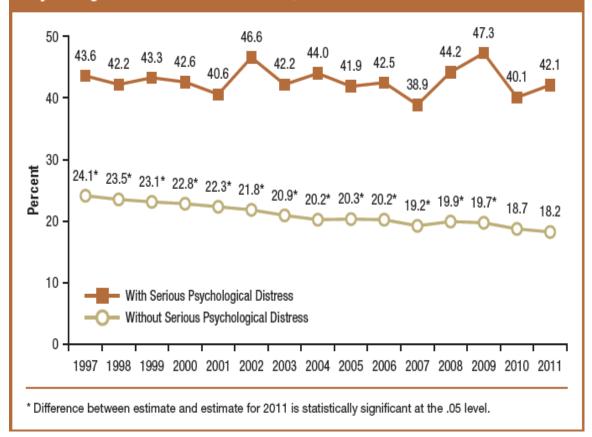
Significance

ADULTS WITH MENTAL ILLNESS ARE 70% MORE LIKELY TO SMOKE THAN ADULTS WITH NO MENTAL ILLNESS.

> Vitalsigns www.cdc.gov/vitalsigns

Smoking and Serious Psychological Distress

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



"This suggests that tobacco control policies and cessation interventions targeting the general population have not worked as effectively for persons with mental illness." (Cook et al., 2014 pg. 181)

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

Cook, B.; Wayne, G.; Kafali, E.; Liu, Z.; Shu, C.; Flores, M. Trends in smoking among adults with mental illness and association between mental health treatment and smoking cessation. *JAMA* **2014**, *311*, 172-182.

Adverse effects of smoking among persons with mental illness

Smokers with Mental illness:

- 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

Smoking keeps consumers from achieving recovery:

- Reduces financial stability
- Decreases opportunities for jobs
- Decreases ability to secure housing

Parks, Svendsen, Singer, Foti (2006). Morbidity and Mortality in People with Serious Mental Illness. National Association of State Mental Health Program Directors (NASMHPD). Medical Directors Council www.masmhpd.org ; Hennekens CH, Circulation, 1998; 97:1095-1102; Steinberg ML, et al., Tobacco Control, 2004; Taylor et al., BMJ, 2014

CDC Best Practice Goals

Preventing tobacco use initiation

Promoting cessation of tobacco use

Eliminating exposure to secondhand tobacco smoke

Identifying and eliminating tobacco related disparities among population groups

CDC Best practices: http://www.cdc.gov/vitalsigns/pdf/2013-02-vitalsigns.pdf

1. Preventing Initiation

Strategies to facilitate the prevention of initiation among non-tobacco users while hospitalized include:

- 1. Assessment of susceptibility to smoking
- 2. Assessment of 'social' & 'perceived' tobacco smoke exposure
- 3. Reinforce education on the health risks associated with tobacco use, particularly links with mental illness

Preventing Initiation (contd)

Smoking Susceptibility Questions (check one response per question):						
	1 Definitely	2 Probably	3 Probably	4 Definitely		
	yes	yes ,	not	not		
1. Do you think that you will smoke a	0	0	0	0		
cigarette/use tobacco products soon?						
2. Do you think you will smoke a cigarette/use	0	0	0	0		
tobacco products in the next year?						
3. Do you think that in the future you might	0	0	0	0		
experiment with cigarettes?						
4. If one of your best friends were to offer you a	0	0	0	0		
cigarette/tobacco product, would you						
smoke/use it?						
Key: A response other than 'definitely not' to any it	em will class	ify a respond	ent as "susce	ptible." To		
be 'non-susceptible', a respondent must indicate 'o	lefinitely not'	to all 4 item	s.			
Source:						
Pierce JP, Farkas AJ, Evans N, Gilpin EA. An improve	d surveillanc	e measure fo	r adolescent	smoking.		
Tobacco Control 1995; 4:S47-S56.						
Pierce JP, Choi WS, Gilpin EA, Farkas AJ, Merritt RK.				tor of which		
adolescents take up smoking in the U.S. Health Psy	chology 1996	;15:355-361.				

•		Yes	No	Does not apply
Spouse/ Partner/ Boyf	iend or girlfriend	0	0	0
Mother or Father/ Step	0	0	0	
Brother (s)/ Sister (s)		0	0	0
Children	0	0	0	
Children				
Best/Close friends Key: A summary score is ca indicate higher 'social exp Source: Okoli, C. (2016). A exposure among nonsmok	comparison of survey measures and bio ers. Public Health Nursing, 33(1), 82-89	omarkers of seco	-	·
Best/Close friends Key: A summary score is ca indicate higher 'social expo Source: Okoli, C. (2016). A exposure among nonsmok Perceived tobacco expo	osure'. comparison of survey measures and bio ers. Public Health Nursing, 33(1), 82-89 sure question:	not apply' as '0'. H omarkers of secol	Higher s	ummary scores tobacco smoke
Best/Close friends Key: A summary score is ca indicate higher 'social exp Source: Okoli, C. (2016). A exposure among nonsmok Perceived tobacco expo On a scale of 0-10 wit	osure'. comparison of survey measures and bio ers. Public Health Nursing, 33(1), 82-89	not apply' as '0'. H omarkers of secon g "all the time	Higher s ndhand	tobacco smoke



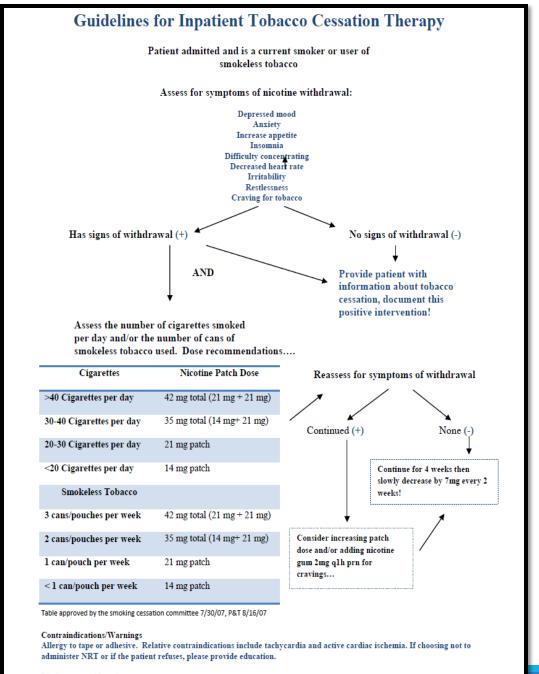
2. Promoting Cessation

Strategies that can facilitate the promotion of cessation among hospitalized tobacco users include:

- Using brief interventions for tobacco treatment (i.e., 5 A's model):
 - Ask, Advise, Assess, Assist, Arrange/Refer
- 2. Assessing for and managing nicotine withdrawal by:
 - Assessing nicotine withdrawal
 - Providing nicotine replacement therapy as required

Promoting Cessation (contd)

Please rate symptoms based on the					I
	none	slight	mild	moderate	severe
Desire or craving to smoke	0	1	2	3	4
Depressed mood	0	1	2	3	4
Insomnia, waking at night	0	1	2	3	4
Anger, irritability, frustration	0	1	2	3	4
Anxiety	0	1	2	3	4
Difficulty concentrating	0	1	2	3	4
Restlessness	0	1	2	3	4
Increased appetite/weight gain	0	1	2	3	4
Key: Higher summary scores indicate greater ni	cotine withdrawal	•	ł		•



Discharge considerations

Consider Rx for nicotine patch taper +/- bupropion(Zyban®/Wellbutrin®) OR varenacline (Chantix®). ALWAYS Provide patient with information about tobacco cessation, document this positive intervention

3. Eliminating SHS Exposure

Strategies that can facilitate the elimination of SHS exposure among hospitalized tobacco users include:

- 1. Assess for environmental SHS exposure in living, work, and social environment
- 2. Advocate and enforce a comprehensive smoke-free policy within the hospital
- 3. Educate patients on voluntary environmental SHS policies such as in the car and the home

Eliminating SHS Exposure (contd)

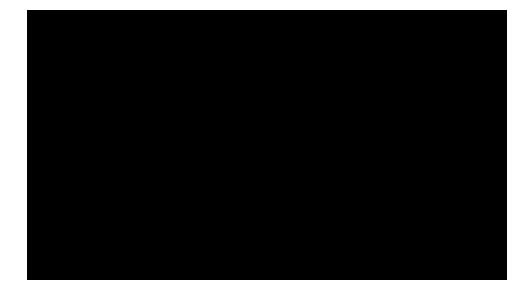
Environmental Secondhand Smoke Exposure Questions						
Do other s	mokers live in the same house / apartm	ent as yo	υŞ			
o yes \rightarrow H	ow many?					
Excluding O none	yourself, how many people smoke insid O 1 O 2	e your ho O 3 or				
Chone	01 02	000				
During the past 7 days, did someone smoke when you were						
		Yes	No			
a.	in a restaurant or cafe	0	0			
b.	in a car	0	0			
c.	in your house	0	0			
d.	in someone else's house	0	0			
e.	at work or school	0	0			
f.	Other: Please specify	0	0			

4. Identifying/Eliminating Disparities

Strategies that can facilitate the identification/elimination of disparities among hospitalized tobacco users include:

- 1. Promoting tobacco control advocacy in tobacco education groups
- 2. Providing information on tobacco industry marketing strategies
- 3. Providing tailored prevention/cessation information based on patient disparity risk profile

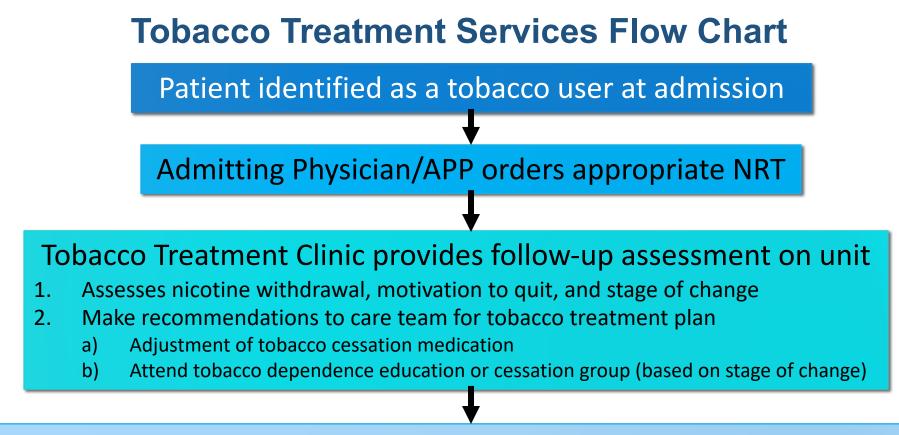
Business or Exploitation? | Mental Health | :30 Report



https://www.youtube.com/watch?v=PiQVg1cFPlE

ESH Tobacco Treatment Services



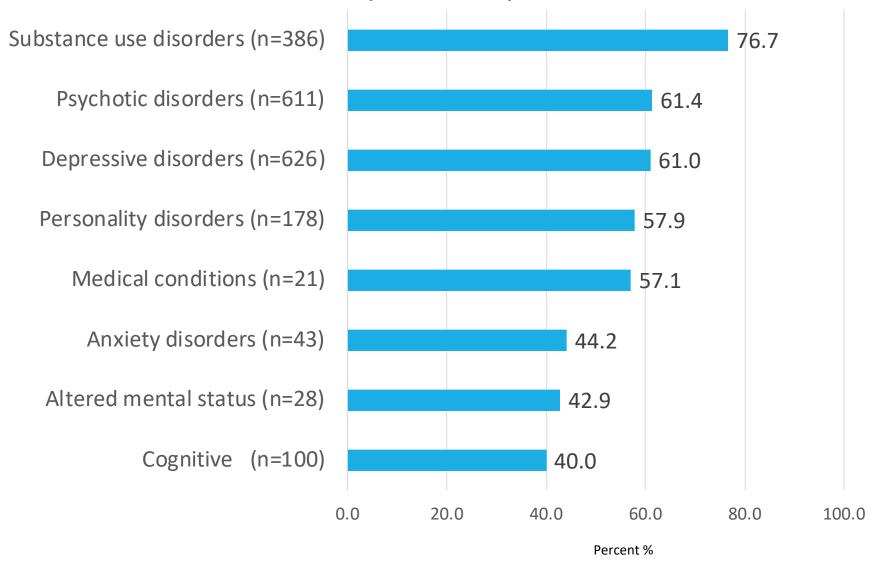


Tobacco Treatment Clinic provides individual or group classes

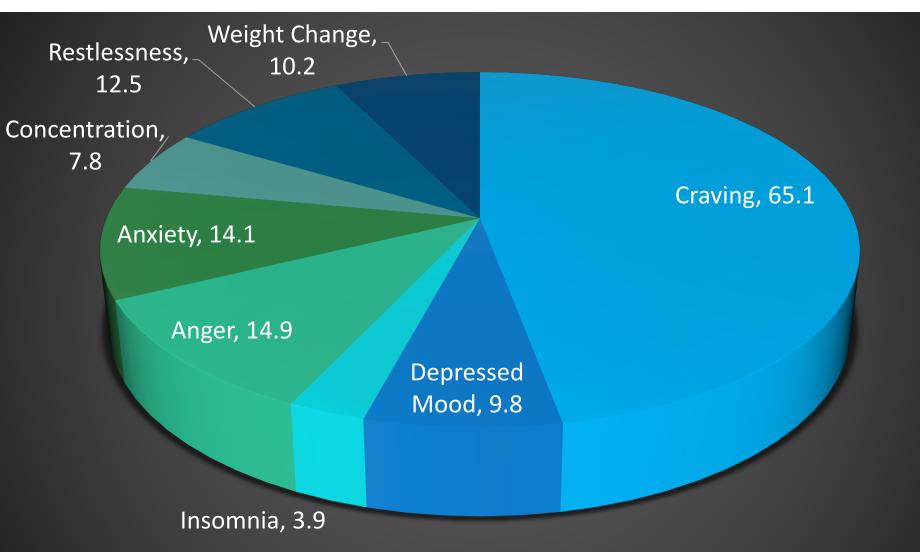
- 1. 30 min tobacco education (For Pre-contemplation and Contemplation stages)
- 2. 30 min tobacco cessation groups (For Preparation, Action, and Maintenance)
- 3. Provide referrals to tobacco treatment programs (e.g., KY quitline)

Attending Physician/APP orders medication at discharge as appropriate

Iobacco Use by Diagnosis, Jan– Dec 2016 (N=2037)

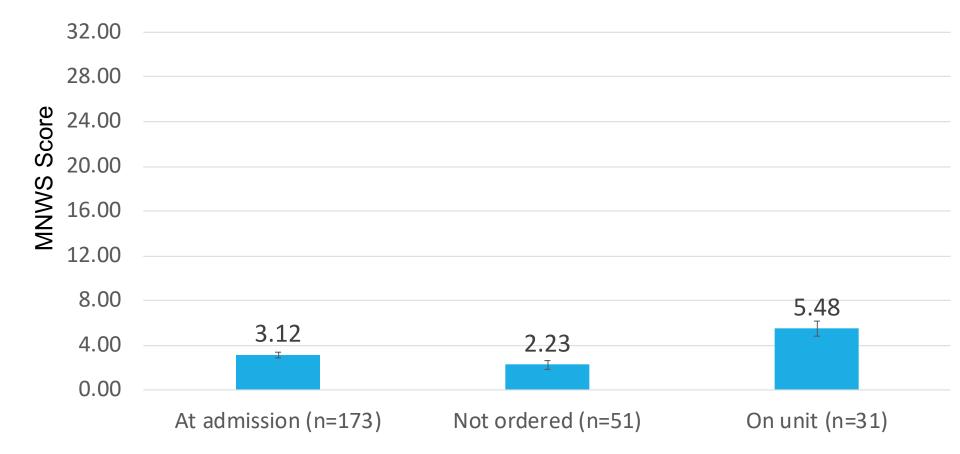


Frequency of Nicotine Withdrawal Symptoms*(n = 255)



*Based on the Minnesota Nicotine Withdrawal Scale, an 8-Item questionnaire that assesses severity of nicotine withdrawal. Hughes JR, Hatsukami D. Signs and symptoms of tobacco withdrawal. Archives of General Psychiatry. 1986;43:289–294

Intensity of Nicotine Withdrawal by receiving NRT at admission (n = 255, Mean=3.2, SD=4.2)



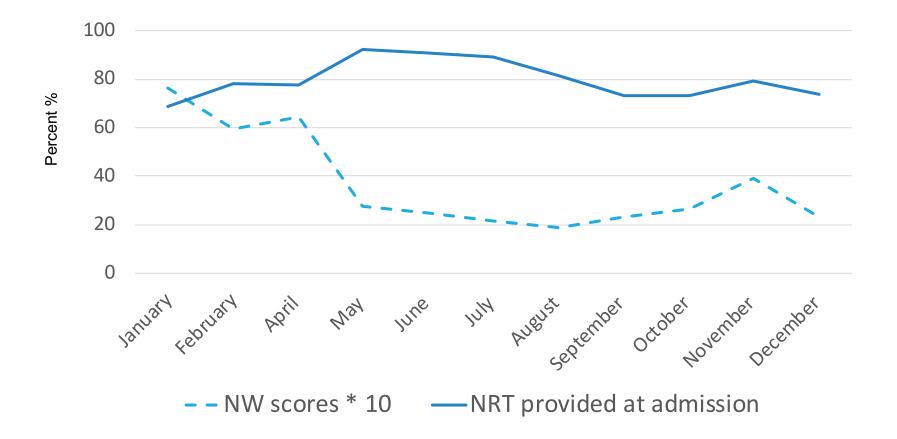
*Significant group differences using Kruskal-Wallis X²=12.7; p=.002

Multivariate Correlates of Nicotine Withdrawal

	Beta	P-value
Confidence to quit	14*	.039
Time of Receiving NRT		
At admission (referent)	1.00	
Not provided	.17	.516
On Unit	.15*	.017

Adjusted R²=0.12, F=4.86 [9, 245], p<.0001.

Changes in nicotine withdrawal intensity with NRT provided at admission by months



* For this graph, the nicotine withdrawal scores were multiplied by 10 to create a rate of intensity scores.

Conclusions

- Significant tobacco use among people with MI and at ESH
- High reporting of nicotine withdrawal symptoms among inpatients (most prevalent is craving)
- Those for whom the nicotine patch is delayed (on unit) have the highest reporting of and intensity of withdrawal
- Increasing patch administration is associated with decreased nicotine withdrawal intensity scores over time

Implications

- Need for best practices in documenting tobacco use and offering all tobacco users nicotine replacement therapy during tobacco-free hospitalizations
- Nursing-led tobacco treatment results in better management of withdrawal

QUESTIONS?