

The Intersection of Tobacco Use and Other Substance Abuse

Presenter:Doug Tipperman, MSWTobacco Policy Liaison, SAMHSA

Medicine Responds to Addiction: Implementing Physician Training January 30, 2018



Tobacco's Death Toll



Smoking remains the leading cause of preventable disease and death in the United States –responsible for over 480,000 deaths per year.

Between 1964 and 2014:

- Over 20 million Americans died because of smoking, including
 - 2.5 million nonsmokers
 - Over 100,000 infant deaths from parental smoking

"The cigarette is the deadliest artifact in the history of human civilization." – Robert Proctor, Stanford University



SUD and Tobacco-Related Mortality

Tobacco-related diseases are the leading cause of death in patients previously treated for alcoholism and other substance use disorders (SUD). (Hurt et al., JAMA, 1996)

Mortality Following Inpatient Addictions Treatment

Role of Tobacco Use in a Community-Based Cohort

Richard D. Hurt, MD; Kenneth P. Offord, MS; Ivana T. Croghan, PhD; Leigh Gomez-Dahl; Thomas E. Kottke, MD; Robert M. Morse, MD; L. Joseph Melton III, MD

Objective.—To determine the impact of tobacco- and alcohol-related deaths on overall mortality following inpatient treatment for alcoholism and other nonnicotine drugs of dependence.

Design .- Population-based retrospective cohort study.

Setting.—Olmsted County, Minnesota (the Rochester Epidemiology Project), and the Inpatient Addiction Program (IAP) at Mayo Clinic, Rochester.

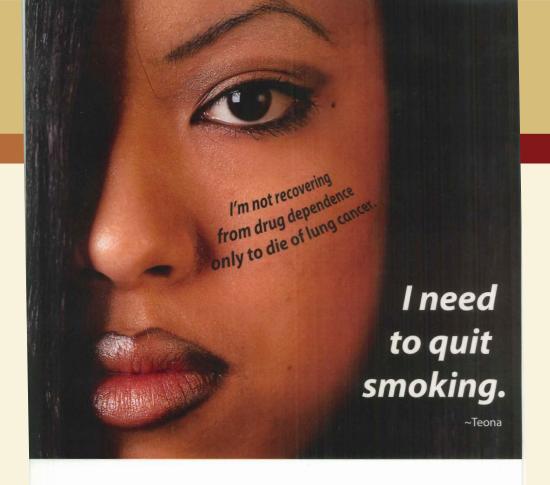
Patients.—All 845 Olmsted County residents admitted to an inpatient addiction program for treatment of alcoholism and other nonnicotine drugs of dependence during the period 1972 through 1983.

Methods.—Patients were followed up through the medical record linkage system of the Rochester Epidemiology Project through December 1994 to obtain vital status, and death certificates were obtained for those who died. The underlying cause of death was classified as alcohol related, tobacco related, both, or neither based on the classification from the Centers for Disease Control and Prevention. The observed number of deaths by underlying cause was compared with the expected number using cause-specific 1987 death rates for the white population of the United States. All-cause mortality was also compared with that expected for persons in the West North Central Region of the United States of like age, sex, and year of birth. Univariate and multivariate assessments were made to identify predictors of all-cause mortality from baseline demographic information.

Results.—At admission, the mean (SD) age of the 845 patients was 41.4 (14.5) years, and 35% were women. Altogether, 78% had alcohol as their only nonnicotine drug of dependence and 18% had alcohol and other nonnicotine drugs of dependence, while 4% were classified as having a nonalcohol, nonnicotine drug dependence alone. At admission, 75% were current and 8% former cigarette smokers, 3% were current cigar or pipe smokers, and 2% were current users of smokeless tobacco. Follow-up after the index IAP admission totaled 8913 person-years (mean [SD] of 10.5 [5.6] years per patient). Death certificates were obtained for 96% (214) of the 222 patients who died. Of these 214 deaths, 50.9% (109) had a tobacco-related and 34.1% (73) had an alcohol-related underlying cause (P<.001). The cumulative mortality significantly exceeded that expected (P<.001); at 20 years, the observed mortality was 48.1% vs an expected 18.5%. Multivariate predictors of (P<.001) and male sex (P<.001).

Conclusions.—Patients previously treated for alcoholism and/or other nonnicotine drug dependence had an increased cumulative mortality that was due more to tobacco-related than to alcohol-related causes. Nicotine dependence treatment is imperative in such high-risk patients. (JAMA, 1996;275:1097-1103) tion between cigarette cohol consumption, with smokers also being the ers and vice versa.3 Th smoking among substan to three times that of th lation,4-9 and alcoholics r quarter of all smokers.10 lationship is so strong heavy smoking is a pre ognized alcohol abuse.11 forts at smoking cessati attention in most alcoho grams.¹² If smoking cont tially to the mortality ment for alcoholism, the aimed at nicotine depen considered by the treatm

A key outcome of alcoh is mortality, but most death following treatme have limited sample size up, and few have address tobacco-related disease in a 20-year follow-up s treated for alcoholism, 4 29% due to circulatory due to lung cancer, for pected mortality ratio of and alcohol abuse may b associated with coronary trolling for smoking stat for the increased risk among alcoholic vetera most studies have not con tribution that smoking r ity in alcoholics.¹⁶⁻²¹ Even years, tobacco use and causes have been consp in the assessment of pr tality after alcoholism tr the inclusion of almost e sible factor.22-24 Thus, th more definitive informa



People with a mental illness or a substance abuse disorder smoke half the cigarettes in America.

Most want to quit. Many have quit. We can help.

Call the Maryland Tobacco Quitline at 1-800-QUIT-NOW It's free. It's confidential. It works.







Tobacco Use Among Persons with SUD

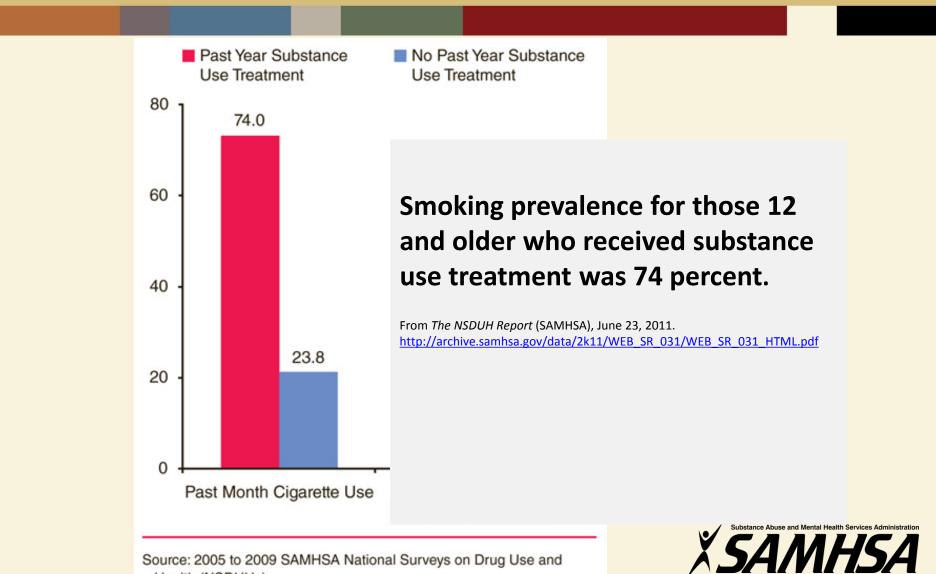
Current Smoking Among Adults With Past Year Substance Use Disorder (SUD) in 2015:

48.3 % vs. 18.6 % no SUD

SOURCE: SAMHSA, National Survey on Drug Use and Health (NSDUH), 2015.



Tobacco Use Among Persons in SUD Treatment



Health (NSDUHs).

Cessation Improves Addiction Recovery

- A 2017 nationally representative, prospective longitudinal study of longterm outcomes for substance use disorder (SUD) found that continued smoking and smoking initiation among nonsmokers were associated with significantly greater odds of SUD relapse.
- A 2012 study analyzing 9 years of prospective data from 1,185 adults in a SUD program at a private health care setting, found that stopping smoking during the first year after substance use treatment intake predicted better long-term substance use outcomes through 9 years after intake.
- A 2004 meta-analysis of 19 studies found that smoking cessation interventions provided during addictions treatment were associated with a 25% increased likelihood of long-term abstinence from alcohol and illicit drugs.

Sources: <u>Weinberger et al., J Clin Psychiatry, 2017</u>; <u>Tsoh et al., Drug and Alcohol Dependence,</u> 2011; <u>Prochaska et al., Consulting and Clinical Psychology, 2004</u>.

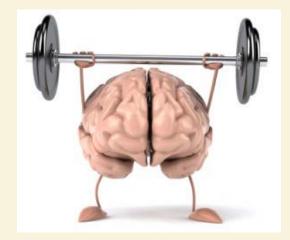


Cessation Improves Mental Health

 A 2014 meta-analysis of 26 studies found that smoking cessation is associated with decreased depression, anxiety, and stress and improved positive mood and quality of life compared with continuing to smoke.

"The effect size seems as large for those with psychiatric disorders as those without. The effect sizes are equal or larger than those of antidepressant treatment for mood and anxiety disorders."

Interview with the researchers: https://www.youtube.com/watch?v=HZgaBwimisI





Source: Taylor et al., BMJ, 2014

SAMHSA Recommendation

Based on this research, the Substance Abuse and Mental Health Services Administration recommends the adoption of tobacco-free facility/grounds policies and the integration of tobacco treatment into behavioral healthcare.



Coming this year...

IMPLEMENTING TOBACCO CESSATION PROGRAMS IN SUBSTANCE USE DISORDER TREATMENT SETTINGS

A QUICK GUIDE FOR PROGRAM DIRECTORS AND CLINICIANS







Effective Tobacco Cessation

- Routinely screening patients for tobacco use and encouraging every smoking patient willing to make a quit attempt to use evidence-based cessation counseling treatments and medications.
- Counseling and medication are effective when used by themselves for treating tobacco dependence. The combination of counseling and medication, however, is more effective than either alone. Thus, clinicians should encourage all individuals making a quit attempt to use both counseling and medication.
- Many may benefit from additional counseling and longer use of cessation medications as well as combination use of medications.
- Adopting and implementing a tobacco-free facility/grounds policy.



Effectiveness of First Line Smoking Cessation Medications

Results from meta-analyses comparing to placebo at 6-month postquit:

Medication	No. of Studies	OR	95% CI
Nic. Patch (6-14 wks)	32	1.9	1.7-2.2
Nic. Gum (6-14 wks)	15	1.5	1.2-1.7
Nic. Inhaler	6	2.1	1.5-2.9
Nic. Spray	4	2.3	1.7-3.0
Bupropion	26	2.0	1.8-2.2
Varenicline (1 mg/day)	3	2.1	1.5-3.0
Varenicline (2 mg/day)	5	3.1	2.5-3.8
Patch (>14 wks) + ad lib NRT (gum or spray)	3	3.6	2.5-5.2

Source: Fiore MC, Jaén CR, Baker TB, 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. May 2008



Treating Tobacco Use and Dependence: 2008 Update

- U.S. Public Health Service Clinical Practice Guideline (1996, 2000, & 2008)
- The 2008 update reflects the distillation of a literature base of more than 8,700 research articles.
- Provides detailed recommendations about clinical interventions for tobacco cessation and found that *tobacco dependence treatments are effective across a broad range of populations*.

Treating Tobacco Use and Dependence: 2008 Update https://www.ahrq.gov/professionals/clinicians-providers/guidelines-recommendations/tobacco/index.html

Quick Reference Guide for Clinicians (based on Treating Tobacco Use and Dependence: 2008 Update)

https://www.ahrq.gov/sites/default/files/wysiwyg/professionals/clinicians-providers/guidelinesrecommendations/tobacco/clinicians/references/quickref/tobaqrg.pdf

Intervention Resources: Million Hearts®

- U.S. Department of Health and Human Services (HHS) launched Million Hearts[®] in 2012 to reduce cardiovascular events.
- Million Hearts[®] has evidence-based tools and resources for tobacco cessation interventions: <u>https://millionhearts.hhs.gov/tools-</u> protocols/tools/tobacco-use.html







Identifying and Treating Patients Who Use Tobacco

ACTION STEPS for Clinicians

Rx for Change: Clinician-Assisted Tobacco Cessation

- Rx for Change is a comprehensive tobacco cessation training program (<u>http://rxforchange.ucsf.edu</u>).
- Training materials are provided at no cost by the University of California, San Francisco.
- Program draws heavily from the Clinical Practice Guideline for Treating Tobacco Use and Dependence.
- The following versions are available:
 - 5 A's (comprehensive counseling)
 - Ask-Advise-Refer (brief counseling)
 - Psychiatry
 - Cardiology
 - Mental Health Peer Counselors
 - Respiratory Care
 - Surgical Care





Contact Information

Doug Tipperman, MSW Tobacco Policy Liaison Substance Abuse and Mental Health Services Administration Douglas.Tipperman@samhsa.hhs.gov 240-276-2442

