Million Hearts® Partner Call

Priority Populations II

April 17, 2018 1:00pm ET



Welcome and Overview



Robin Rinker, MPH
Health Communications
Specialist
Division for Heart Disease
and Stroke Prevention
Centers for Disease
Control and Prevention



Agenda

Welcome and Overview	Robin Rinker Health Communications Specialist Division for Heart Disease & Stroke Prevention Centers for Disease Control and Prevention			
Priority Populations in Million Hearts®	Janet Wright, MD, FACC Executive Director Million Hearts® CDC and CMS			



Agenda continued

Presentation: Air Pollution and Heart Disease Discuss the science and policy implications behind AHA's scientific statement update that focuses on the link between particulate matter and cardiovascular disease. Aruni Bhatnagar, Ph.D., FAHA
Director of the Diabetes and Obesity
Center at the University of Louisville and
Director of the American Heart
Association Tobacco Regulation and
Addiction Center

Laurie Whitsel, Ph.D., FAHA
Director of Policy Research, American
Heart Association



Agenda continued

Presentation: Addressing Tobacco Use Among Persons with Mental or Substance Use Disorders	Doug Tipperman, MSW Tobacco Policy Liaison, SAMHSA
Q&A	All
Million Hearts® Partner Share	Linda Murakami, RN, BSN, MSHA, Senior Program Manager, Quality Improvement American Medical Association Jennifer Cooper, DNP, RN, APHN-BC Association of Public Health Nurses



Agenda continued

Updates from CDC	Judy Hannan, RN, MPH Senior Advisor Million Hearts® Centers for Disease Control and Prevention
Closing and Adjourn	April Wallace Program Initiatives Manager Million Hearts Collaboration American Heart* Association



Priority Populations in Million Hearts®



Janet S. Wright, MD, FACC **Executive Director** Million Hearts® CDC and CMS



Million Hearts® 2022 Priorities and Goals



Blacks/African-Americans with Hypertension 35-64 year olds due to rising event rates People who have had a heart attack or stroke eople with mental and/or substance use disorders who smo *Aspirin, Blood pressure control, Cholesterol manag

illion Hearts*

2022 Targets: 20% improvement in sodium, tobacco, physical activity; 80% on the ABCS; 70% participation in cardiac rehab

Improving Outcomes for Priority **Populations**

Priority Population	Intervention Needs	Strategies
People who have had a heart attack or stroke	Increasing cardiac rehab referral and participation Avoiding exposure to particulates	Use opt-out referral and CR liaison visits at discharge; ensure timely enrollment Increase use of Air Quality Index
People with mental and/or substance abuse disorders who smoke	Reducing tobacco use	Integrate tobacco cessation into behavioral health treatment Institute tobacco-free policy at treatment facilities Tailored quittine protocols



Particle Pollution

- PM_{2.5} refers to particulate matter of 2.5 micrometers or less in diameter
- · Exposure is linked to an increase in risk of heart attacks, strokes, and rhythm disorders
- Particle pollution info on Million Hearts website







Million Hearts® PM_{2.5} Priority Actions

- · Raise awareness of mitigation behaviors among those atrisk, their families, and the clinicians who care for them
- · Encourage health professionals to take EPA's web-based course: Particle Pollution and Your Patients' Health
- · Incorporate air quality messages into cardiac rehab program curricula
- Encourage hospitals, employers, health systems, and others to adopt EPA's Air Quality Flag Program
- · Disseminate particulate info via Million Hearts® channels



Tobacco Users with Mental and/or Substance Use Disorders

- · Current smoking rate among adults (cigarettes) is 17%
- · People with mental and/or substance use disorders account for 40% of all cigarettes smoked in the U.S.
- · Interventions for this population include:
 - Integrate tobacco dependence treatment into behavioral health treatment
 - Implement tobacco-free campus policies in mental health and substance use treatment facilities
 - 3. Specialized quitlines



Particulate Matter and Cardiovascular Disease



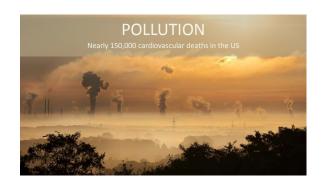
Aruni Bhatnagar, Ph.D., F.A.H.A., Director of the Diabetes and Obesity Center at the University of Louisville and Director of the American Heart Association Tobacco Regulation and Addiction Center



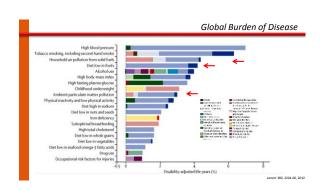
AIR POLLUTION AND HEART DISEASE

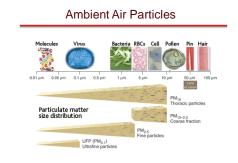
Aruni Bhatnagar, PhD, FAHA University of Louisville









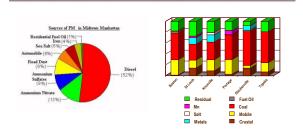


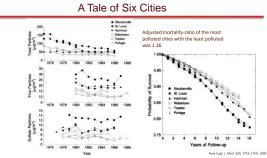
Ambient Air Particles



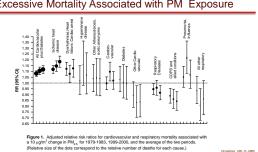


PM sources vary by geographic location



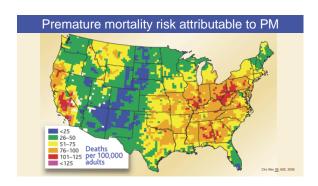


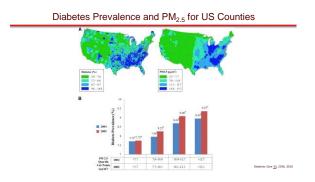
Excessive Mortality Associated with PM Exposure

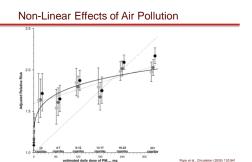


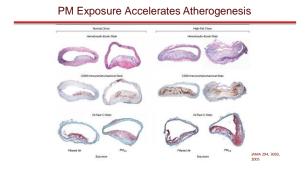
GEOGRAPHIC DISTRIBUTION OF PM

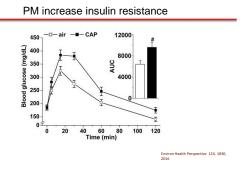


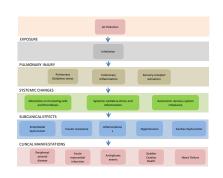












Particulate Matter and Cardiovascular Disease



Laurie Whitsel, Ph.D., FAHA,Director of Policy
American Heart Association



The AHA's Strategic Policy Checklist: A rigorous process for choosing our priorities

- Evidence Assessment
- Strategic Alignment
- Health Impact
- Ability to address SDOH
- Feasibility
- Positioning
- Grassroots/Vol Engagement
- · Level of Risk
- Internal Will
- Resource Commitment
- · Likelihood of Success



Social Determinants of Health

And Equity First Policy Making



The conditions in which people are born, grow, work, live, and age, and the wider set of forces and systems shaping the conditions of daily



Air Pollution

2010 AHA Scientific Statement
Highlighted a Causal Relationship
between Fine Particulate Matter and
CVD

American Heart
Association
Learn and Live.

Particulate Matter Air Pollution and Cardiovascular Disease: An Update to t



Where we have weighed in AHA Advocacy

Federal Level (Sign-on letters with national partners)

- Support EPA Standards for:
 - Clean Air
 - Greenhouse gas emissions for cars
 - Methane and dangerous volatile organic compounds
- Ozone
- Monitored White House Report on Climate Change
- Working with EPA on co-branded materials in English and Spanish and a briefing on the relationship between fine particulate matter and CVD
- · State Level
 - Completed an environmental scan of policy opportunities



Potential State and Local Level Policy Opportunities

Some examples:

- · Consumer Incentives
- · Car/Diesel Emissions
- · Reduce Consumer Energy Use
- · Utility Company Mandates
- Renewable Energy Subsidies
- Building Codes for Energy Conservation
- · Reducing Emissions from Power Plants
- · Traffic Abatement/Public Transportation





Addressing Tobacco Use Among Persons with Mental or Substance Use Disorders



Doug Tipperman, MSW, Tobacco Policy Liaison, Office of Policy, Planning and Innovation, Substance Abuse and Mental Health Services Administration



Addressing Tobacco Use Among Persons with Mental or Substance Use Disorders

Doug Tipperman Tobacco Policy Liaison Substance Abuse and Mental Health Services Administration U.S. Department of Health and Human Services

April 17, 2018



Tobacco and Cardiovascular Disease



Smoking tobacco:

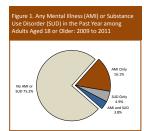
- · Causes one of every three deaths from CVD
- · Increases the risk of almost all major forms of CVD
- Causes an increased risk of CHD at all levels of cigarette smoking

2018 analysis of 141 studies published in the BMJ:

- Men who smoked one cigarette a day had about a 48% higher risk of developing coronary heart disease and were 25% more likely to have a stroke than those who had never smoked. For women, it was higher - 57% for heart disease and 31% for stroke.
- Smoking only about one cigarette per day carries a risk of developing coronary heart disease and stroke much greater than expected: around half that for people who smoke 20 per day.



About 25% of population... is smoking nearly 40% of all cigarettes.



Source: The NSDUH Report (SAMHSA), March 20, 2013. http://s



Impact on the Behavioral Health Population

- Persons with mental illness, on average, die several years earlier than persons without mental illness - with smoking being a major contributing factor
- · Smoking accelerates the metabolism of certain psychiatric medications resulting in the need for higher doses.
- · Smoking tobacco causes more deaths among people who had been in substance abuse treatment than the alcohol or drug use that brought them to treatment.
- Other consequences:

 - Creates financial hardship
 Interferes with employment opportunities
 - Makes it difficult to secure housing



Tobacco's Adverse Impact on Behavioral Health

- · Heavy smoking is a significant risk factor for major depression.
- · Tobacco use is associated with increased suicidal ideations, suicide attempts, and completed suicides
- People who continued smoking following treatment for a substance related disorder have greater likelihood of relapse to drugs or
- · Smoking is a strong predictor of risk for nonmedical use of prescription opioids.

iree: Compton, W. The American Journal on Addictions, 2018; Evins, AE, et al., Psychological Medicine, 2017; Joon, JH, et al., Journal of



Myths: Smoking and Behavioral Health

- They are not interested in quitting
 - As likely as the general population to want to quit smoking (about 70%).
- They can't quit
 - Can guit and benefit from integrated tailored interventions.
- Tobacco is necessary self-medication
 - Industry has supported this myth. Smoking is certainly not an effective treatment. Relief from withdrawal symptoms is often misinterpreted for feeling better
- It is a low priority problem
 - Smoking is the biggest killer for those with mental or substance use disorders.
- Quitting worsens recovery
 - Not the case. Cessation is associated with improved mental health and addiction recovery outcomes.

Source: Prochaska, NEJM, July 21, 2011.



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





Source: Taylor et al., BMJ, 2014



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: Weinberger et al., J Clin Psychiatry, 2017; Tsoh et al., Drug and Alcohol Dependence, 2011; Psychology, 2018



Effective Tobacco Cessation Practices

- Routinely screening patients for tobacco use and encouraging every smoking patient willing to make a guit 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.
- Many may benefit from additional counseling and longer use of cessation medications as well as combination use of medications.
- Using peer-driven approaches such as peer specialists trained in smoking cessation.
- Adopting and implementing a tobacco-free facility/grounds policy.

re MC, Jaén CR, Baker TB, et al. Treating Tobacco Use and Dependence: 2008 Update. Clinical Pract ockiville, MD; McFall, M., et al (2010). Integrating Tobacco Cessation Into Mental Health Care for tic Stress Disorder. JAMA; McKay, C.E., et al. (2012). Peer Supports for Tobacco Cessation for Adults Mental Illines: A Review of the Literature. Journal of Dual Diagnosis.



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



Effectiveness of First Line Smoking Cessation Medication

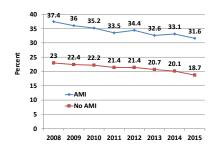




FDA December 2016 statement: "...As a result of our review of the large clinical trial, we are removing the *Boxed Warning*, FDA's most prominent warning, for serious mental health side effects from the Chantix drug label..."



Current Smoking Among Adults (age ≥ 18) With Past Year Any Mental Illness (AMI): NSDUH, 2008-2015



Current Smoking is defined as any cigarette use in the 30 days prior to the interview date.

Any Mental lines is defined as having a diagnosable mental, behavioral, or emotional disorder, other than a
developmental or substance use disorder, based on the 4th edition of the Diagnostic and Statistical Manual of Men



Q & A

Do you have a question for one of the panelist?

Please submit your questions in writing using the Q&A Panel located at the bottom right of your screen.



Million Hearts® Partners Share

This is an opportunity for Million Hearts® Partners to provide an update on your organization's Million Hearts® actions.

Please submit your update in writing using the Q&A Panel located at the bottom right of your screen.



Updates from CDC

Judy Hannan, RN, MPH
 Senior Advisor, Million Hearts®
 Centers for Disease Control and Prevention



Next Partner Call: July 31, 2018, 1 p.m. EST

Please submit any comments or feedback to Robin Rinker at vgb2@cdc.gov



