



Northwest (HHS Region 10)

ATTC

Addiction Technology Transfer Center Network
Funded by Substance Abuse and Mental Health Services Administration



Addressing Equity in Tobacco Dependence Treatment

Fall 2020



SCHOOL OF PUBLIC HEALTH
UNIVERSITY of WASHINGTON

SAMHSA
Substance Abuse and Mental Health
Services Administration





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Partnership with NW ATTC

- Serves Alaska, Idaho, Oregon, and Washington.
- Located at the University of Washington's Alcohol & Drug Abuse Institute
- The NWATTC seeks to accelerate community-based implementation of evidence-based practices (EBPs) for treatment and recovery by:
 - Sponsoring **training** online and in-person to enhance clinical knowledge and skills, and adoption of EBPs,
 - Providing intensive **technical assistance** to support systems change and organizational efforts to implement EBPs,
 - Offering **consultation** for systems-level change in the emerging new landscape for behavioral health care,
 - Disseminating **science-based information** on EBPs, cultural competence, and more.

<https://attnetwork.org/centers/northwest-atcc/home>



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Look for NWATTC surveys in your inbox!

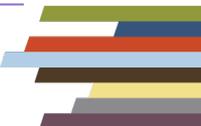
Every survey helps NWATTC to improve and continue offering programs.

It only takes **1 minute** to complete!

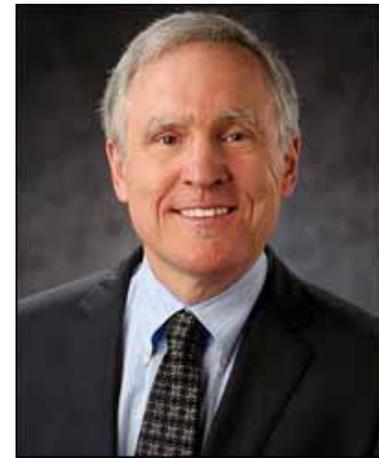


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Tim McAfee, MD, MPH



- Former Director and Senior Medical Officer, Office on Smoking & Health (OSH), Centers for Disease Control and Prevention
 - Currently, Consultant with CDC OSH on media & web development
- Chief Medical Officer and Founder, Free & Clear (now part of Optum), largest provider of phone and web help to smokers
- Primary Care Physician and former Director, Center for Health Promotion, Group Health (now Kaiser)
- Affiliate Faculty, Department of Health Services, University of Washington





Health Equity and Disparity Issues in Tobacco Dependence Treatment



Tim McAfee, MD, MPH
Former Director, Senior Medical Officer
Office on Smoking & Health, CDC
Affiliate Faculty, Health Services, UW SPH

University of Washington • Tobacco Studies Program • Nov 9, 2020

Disclosures (none required)

- Worked directly or indirectly for the federal government over the past decade
 - Federal government raised \$13.8 Billion dollars in tobacco tax revenue in 2017
- Pharma industry relationships: None
- Counseling “industry” (quitlines): None X 10 years
- Friends, family, colleagues & patients killed by smoking: Many



To Cover:

1

What is
Tobacco
“Treatment”

2

Health Inequity
Issues facing
smokers

3

Treatment-Related
Population Disparities

4

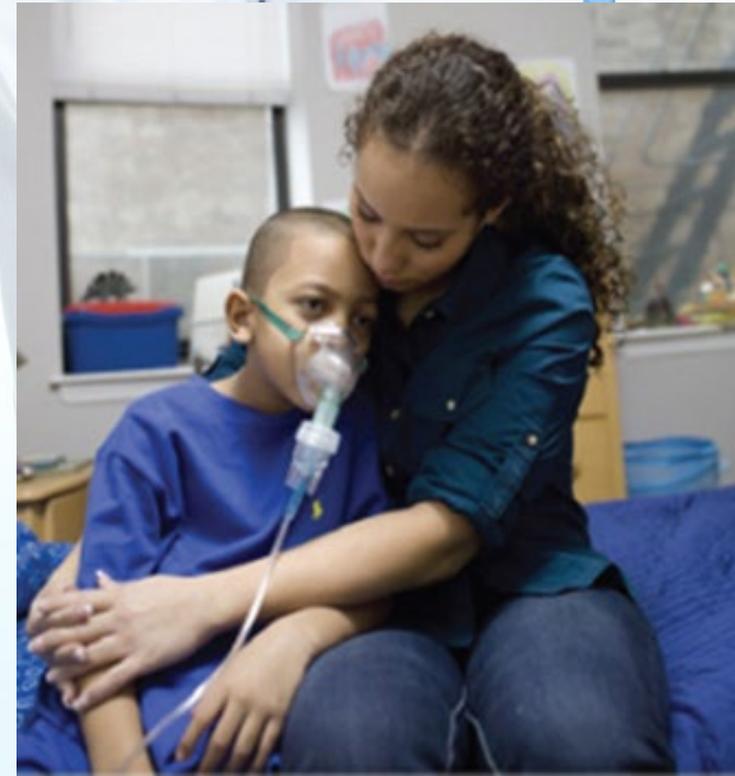
Potential Solutions Exist

Mass
Medicaid

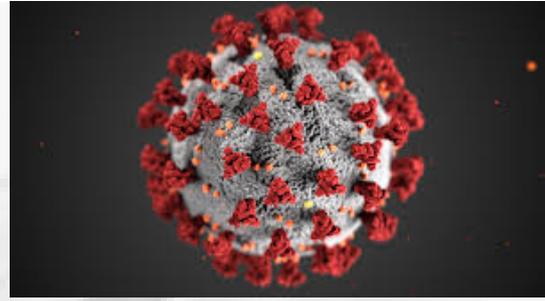
VA
Prospective
Treatment

Tips
National
Media

Conclusions



But first, some viral lessons



- **What COVID and cigarettes have in common:**
 - Both kill hundreds of thousands of Americans/year
 - Efforts to deny and minimize health impact
 - Efforts to suggest control would devastate economy
 - Prevention & treatments exist that decrease infection & mortality
 - Death rates correlate with age and chronic conditions
 - Health equity issues abound
- **Some differences between COVID and cigarettes:**
 - R&D for prevention/treatment fast tracked vs slow boat
 - Cigarettes manufactured and promoted by humans
 - No daily tallies of new smokers and smoking deaths
 - Cost for inpatient COVID treatment: \$10-20K (\$14-40 B uninsured)
 - COVID will be mostly wrapped up in a couple years

Tobacco Use in a Population?

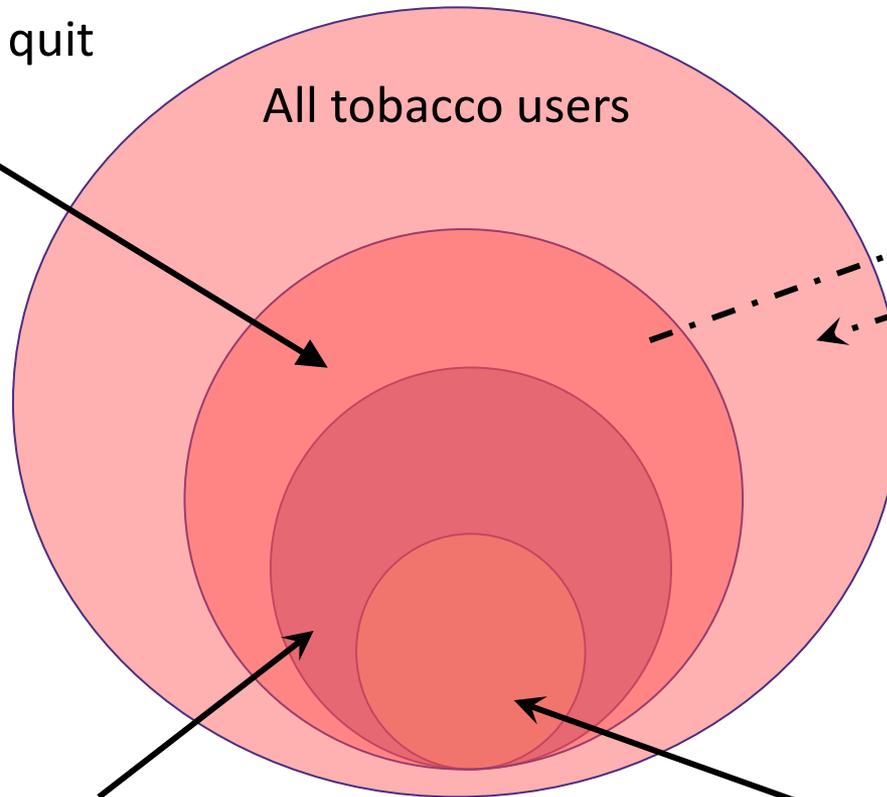
Attempting to quit

All tobacco users

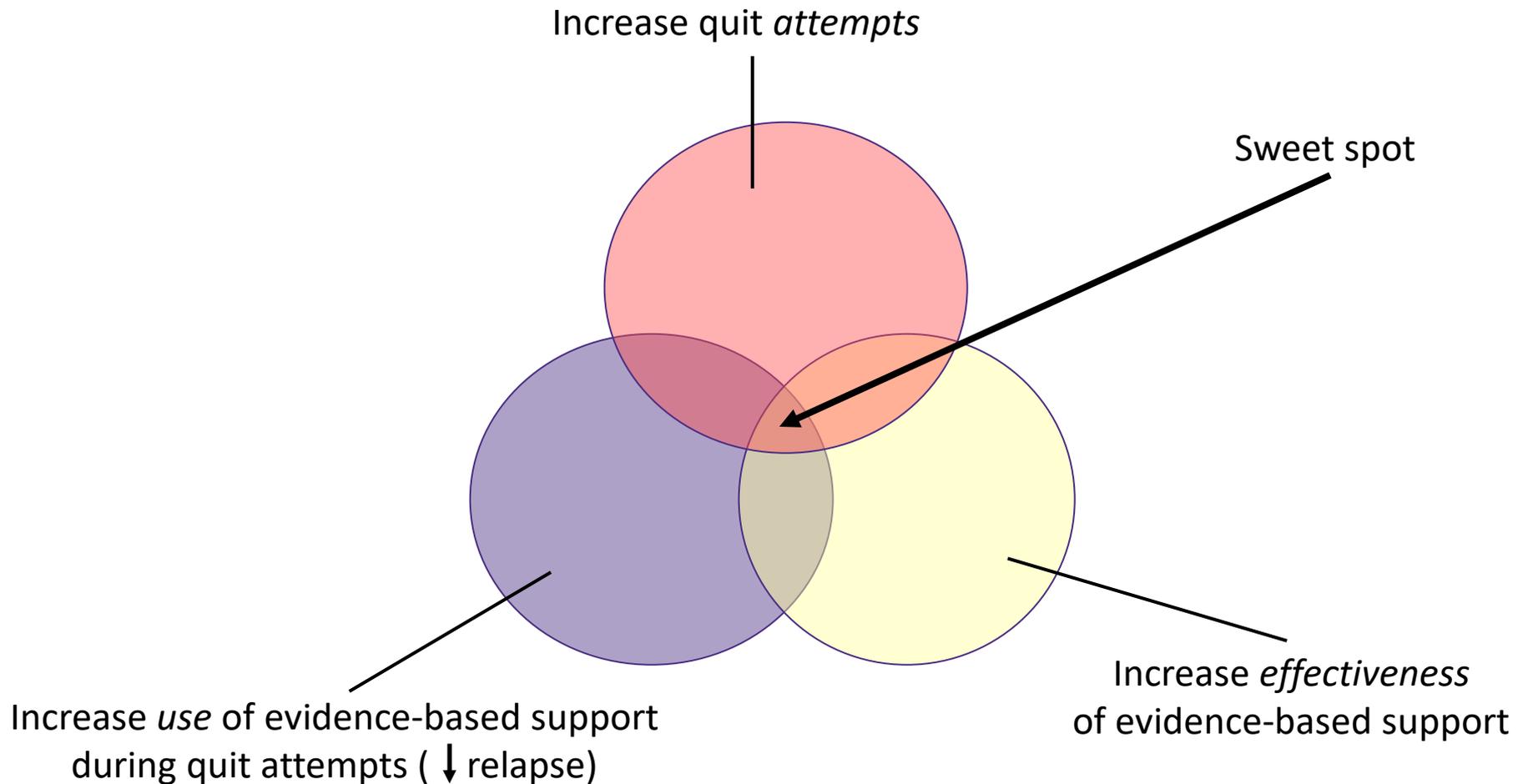
Non-tobacco users

*Using some evidence-based support
during quit attempts*

*Using highly effective
evidence-based support*



How Do We Increase Total Long-term Quits in a Population ??



So What Works?

- Increase quit attempts
 - Comprehensive clinic system interventions (5As)**
 - Mass media campaigns*
 - State/local comprehensive tobacco control
- Increase use of evidence-based support
 - Promotion & removal of access barriers
 - More patient-friendly
- Increase effectiveness of support/treatment
 - Combine modalities
 - Increase dose/duration/instruction

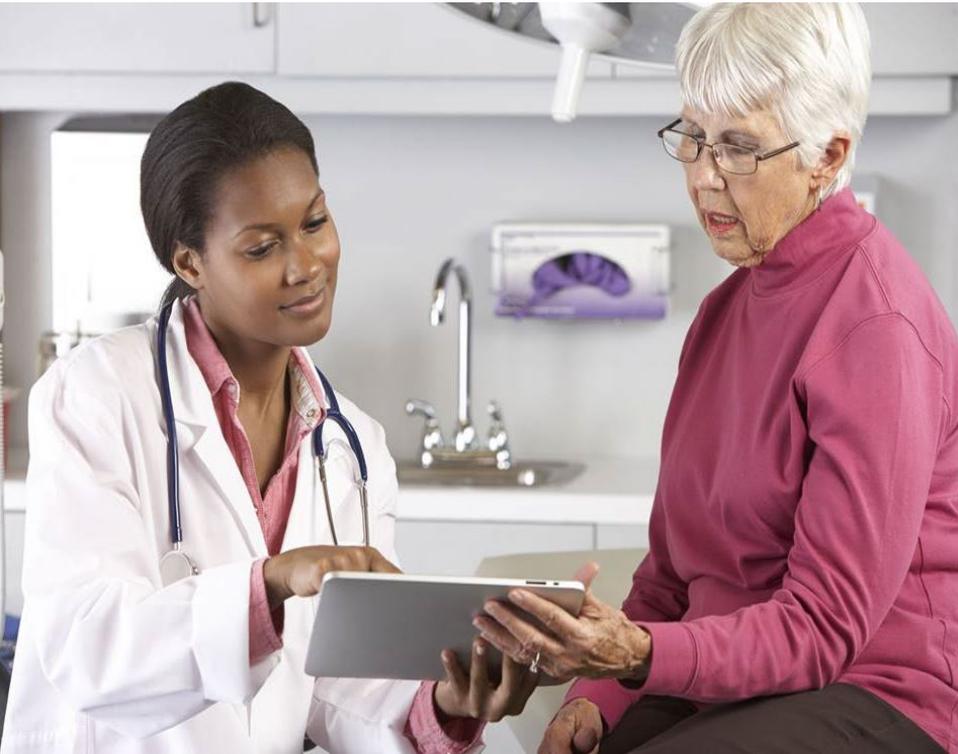
What Clinical Interventions Helps Tobacco Users Quit



I'm Ready to QUIT!

- Brief advice to quit from a health care professional
- Counseling: individual, group, telephone
- 7 FDA-approved medications
- Systems & policies that support the delivery of all of the above
 - E.g. health insurance coverage without barriers

Benefits of Clinician Intervention



Patients expect it

Increases satisfaction with care

Improves patient outcomes

Covered as a preventive service

Cost effective

Can be fun and rewarding

Even very brief interventions increase the odds that a patient will try to quit and succeed

What Is “Counseling”?



Components

Motivation

Support

Practical advice

Development of a quit plan

Settings

One-on-one clinician interventions

Individual or group counseling sessions

Referral resources (quitlines, mHealth, etc.)

Dosing: More & repetition is better!

Quitlines Can Extend Clinical Reach

- Evidence-based intervention
- Tailored services:
 - Counseling
 - NRT (sometimes)
- Free & confidential
- Multiple languages
- Increases ease of access
 - 33% callers uninsured
 - 33% callers Medicaid/care
- Clinician Referral – via web in WA state



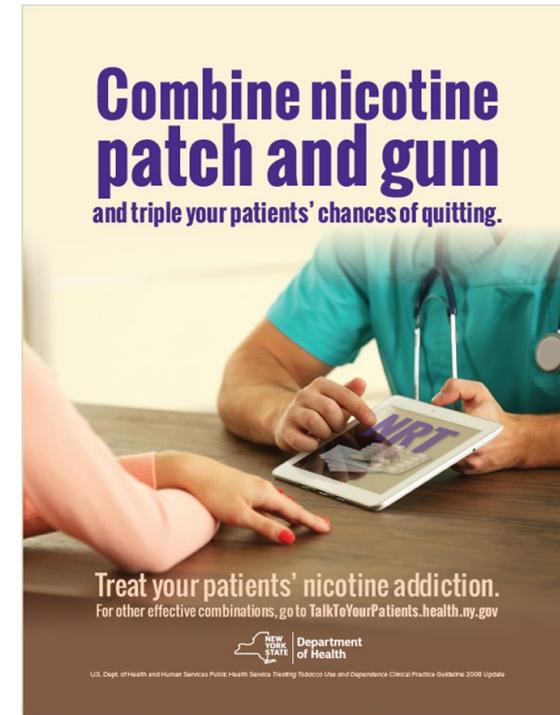
Evidence Strength



Effectiveness of FDA-approved Smoking Cessation Medication

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

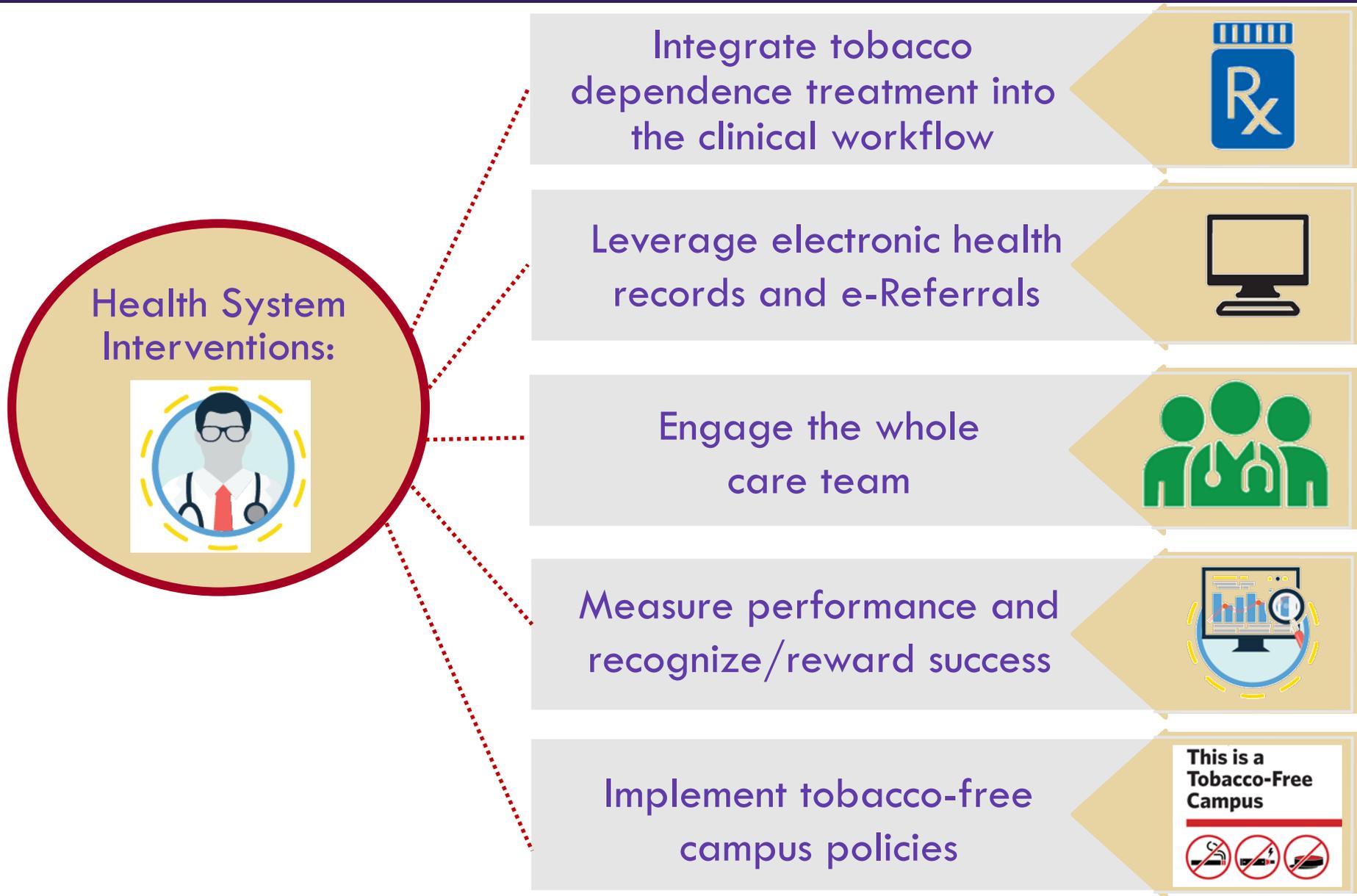
| Medication | No. of Studies | OR | 95% CI |
|--|----------------|------|-----------|
| Nic. Patch (6-14 wks) | 32 | 1.9 | 1.7-2.2 |
| Nic. Gum (6-14 wks) | 15 | 1.5 | 1.2-1.7 |
| Nic. Inhaler | 6 | 2.1 | 1.5-2.9 |
| Nic. Spray | 4 | 2.3 | 1.7-3.0 |
| Nic. Lozenge | | 1.95 | 1.61-2.36 |
| Bupropion | 26 | 2.0 | 1.8-2.2 |
| Varenicline (2 mg/day) | 5 | 3.1 | 2.5-3.8 |
| Patch (>14 wks) + ad lib NRT (gum or lozenge) | 3 | 3.6 | 2.5-5.2 |



Combination NRT & varenicline have the highest effectiveness

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.

System changes increase cessation intervention



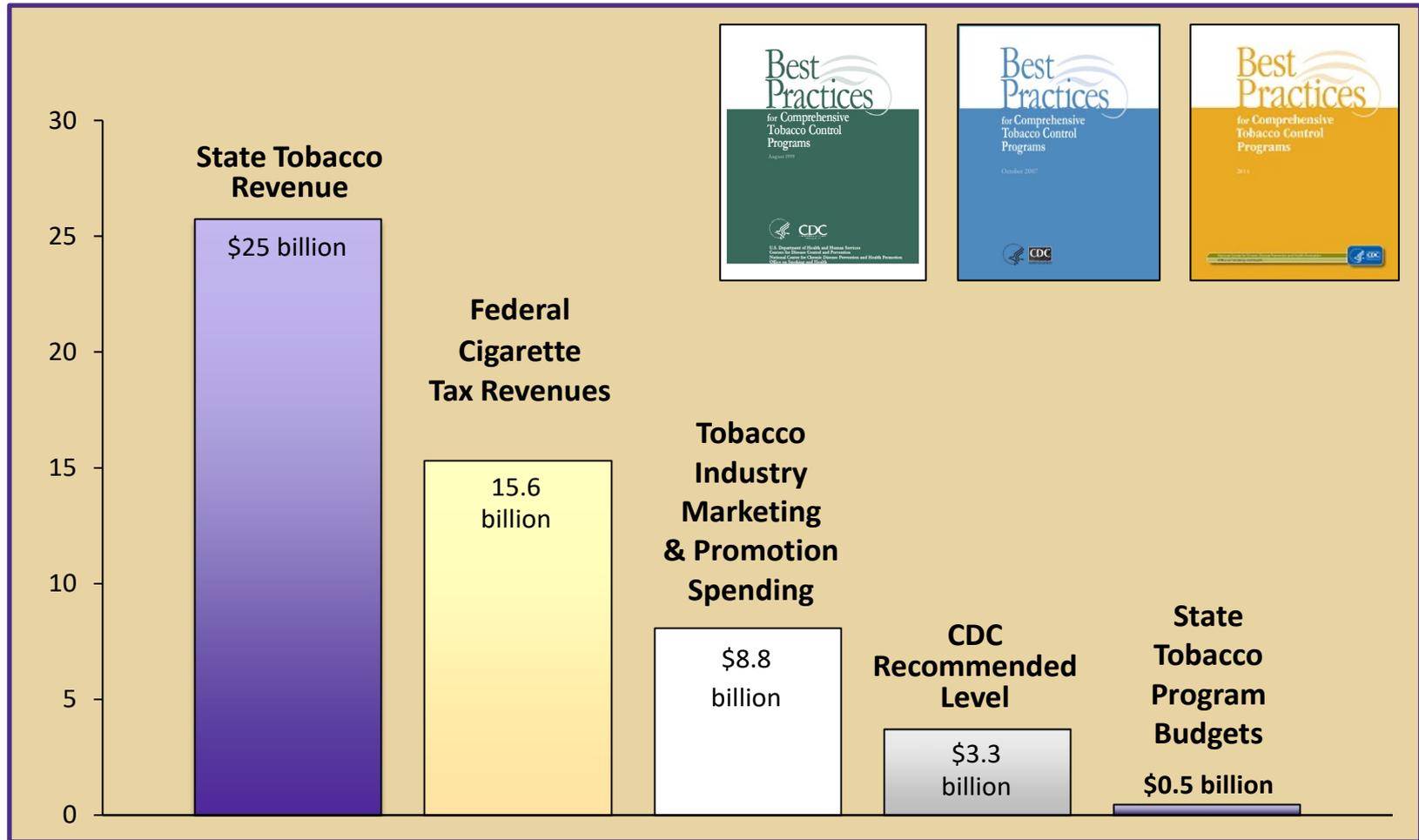
People with tobacco dependence experience health inequities

Health
Inequity Issues
facing
smokers

- 2-3x more likely to die at all ages
- Life expectancy 10+ years lower
- Tobacco treatment research & delivery not prioritized
- Adoption of evidence-based treatments agonizingly slow
- Users of an addictive product are taxed, but revenue not applied to treatment (or prevention)
- Under ACA, tobacco users now one of the only groups that insurers can charge higher premiums
- Environment supports addiction, undercuts quitting



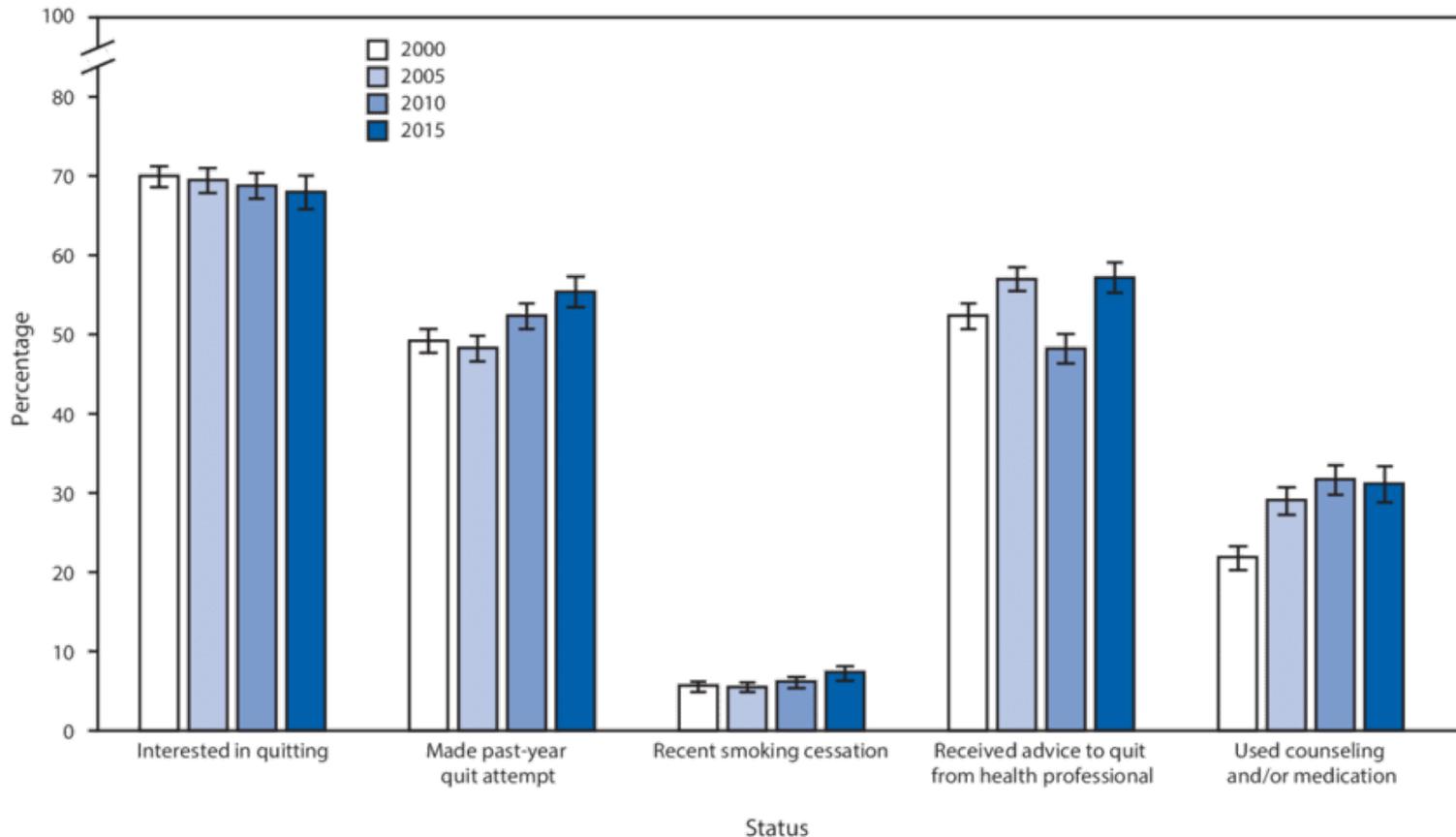
Fully fund comprehensive statewide tobacco control programs at CDC-recommended levels



Source: Campaign for Tobacco Free Kids, Federal Trade Commission, 2012 Tax Burden on Tobacco Report, CDC's Best Practices for Comprehensive Tobacco Control Programs.

Adults Who Smoke:

- Want to quit (68%+)
- Try to quit (55% in 2018)
- Are unlikely to succeed (5-10% per attempt)
- Less than 1/3 of people quitting got evidence-based help



If you are a smoker you...

-
- Pay for other people's healthcare and roads through taxes and a tobacco "settlement"
 - May be denied coverage, awareness or access to well-proven treatments that can quadruple your chance of success
 - May have to pay more for your healthcare solely because you are a smoker, while your neighbor with diabetes, alcoholism, or obesity does not
 - Are exposed to marketing and access to a deadly, highly addictive product

“**Health inequities** are differences in **health** status or in the distribution of **health** resources between different population groups, arising from the social conditions in which people are born, grow, live, work and age. **Health inequities** are unfair and could be reduced by the right mix of government policies.” WHO

Changing the Cost-Benefit Calculus



- Tobacco easily accessible
- Smoking in public legal
- Unfettered advertising
- Poor access to cessation help
- Cigarettes designed to addict

Individual

Tobacco
Addiction

Society

What has been done to overcome inequities?

- Jury-rigged solutions
 - NGO-sponsored group cessation classes to help quitters
 - Healthplans/providers provide help without reimbursement
 - State-sponsored Quitlines outside of healthcare
- Systematic approaches
 - 5A health system approach
 - Integration with quality improvement/assurance & community
 - Mandated coverage under ACA/CMS
 - Media campaigns linking to treatment
 - Web, quitlines, and “talk with your doctor” with resource tag

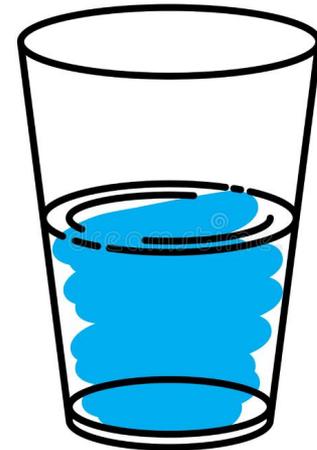
Expanding cessation in primary and specialty care settings

Depend on healthcare access:

- Health systems support
- Healthcare provider training
- In-person counseling
- Medication availability
- ACA coverage requirement

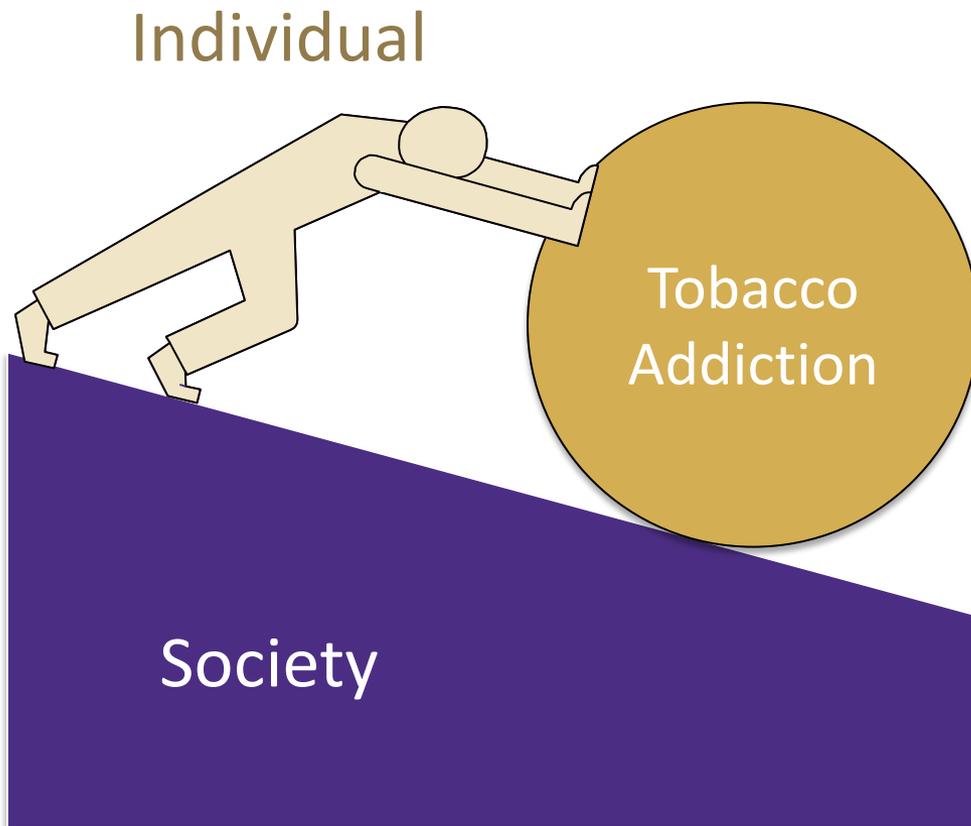
Healthcare access not required:

- Quitlines
- Web/text support
- Environmental/policy change



Half Full, or Half Empty?

Changing the Cost-Benefit Calculus



- Tobacco more expensive and less accessible
- Smoke-free policies
- Counter-marketing and promotion restrictions
- Cigarettes made less addictive
- **“Convenient” access to help**



Some populations face health equity treatment access disparities

Treatment-Related Population Disparities

- Similar to other tobacco control issues
- Geography
 - South/lower Midwest – higher uninsured, fewer state services
 - Rural
- Mental health/substance abuse/chronic diseases
 - Historic biases against providing tobacco treatment
- Low Socio-Economic Status (SES)
- Race/ethnicity/sex/sexual orientation

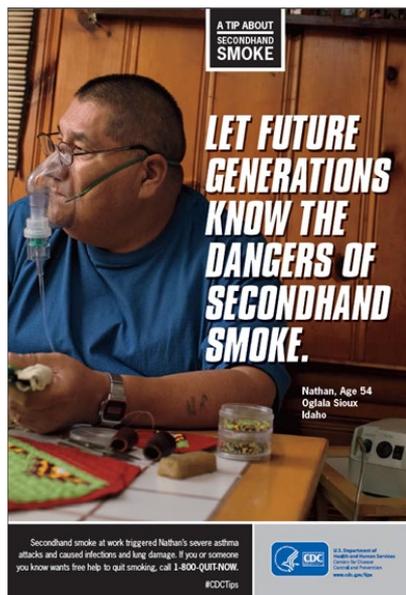
<https://smokingcessationleadership.ucsf.edu/sites/smokingcessationleadership.ucsf.edu/files/Documents/FactSheets/achieving-health-equity-v1.pdf>

Socio-Economic Status (SES) influences a person's ability to access and receive healthcare

- Low-SES smokers less likely to receive cessation assistance from a health care provider
- Cost and lack of coverage a barrier to cessation treatment
- Hard to access resources
- Distrust of medical establishment
- Environment more tobacco-use friendly

Race/ethnicity

- American Indians
 - Lowest quit attempt rates
 - Lower quit success rates
 - Highest prevalence (30+%)



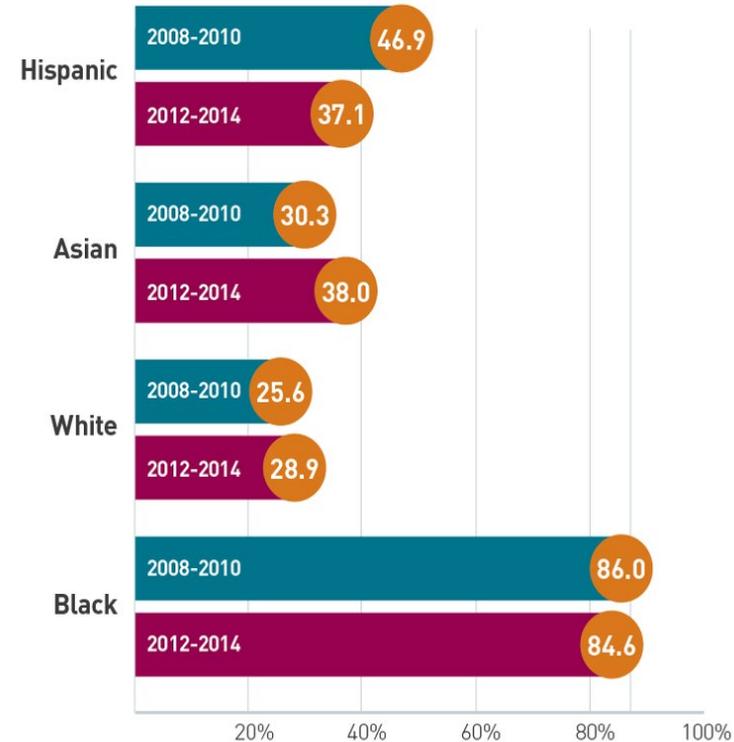
- African-Americans
 - Higher quit attempt rates
 - Lower quit success rates
 - Menthol implicated in lower quit success
 - Lower utilization of healthcare-associated treatment
 - Similar success rates when do use treatments
 - Quitlines used at higher rates

<https://truthinitiative.org/research-resources/targeted-communities/why-tobacco-racial-justice-issue>

Menthol:

- Easier to initiate smoking
- Harder to quit
- Decades-long promotion by tobacco industry targeting African-Americans with menthol
- Menthol exempted from most flavor restrictions

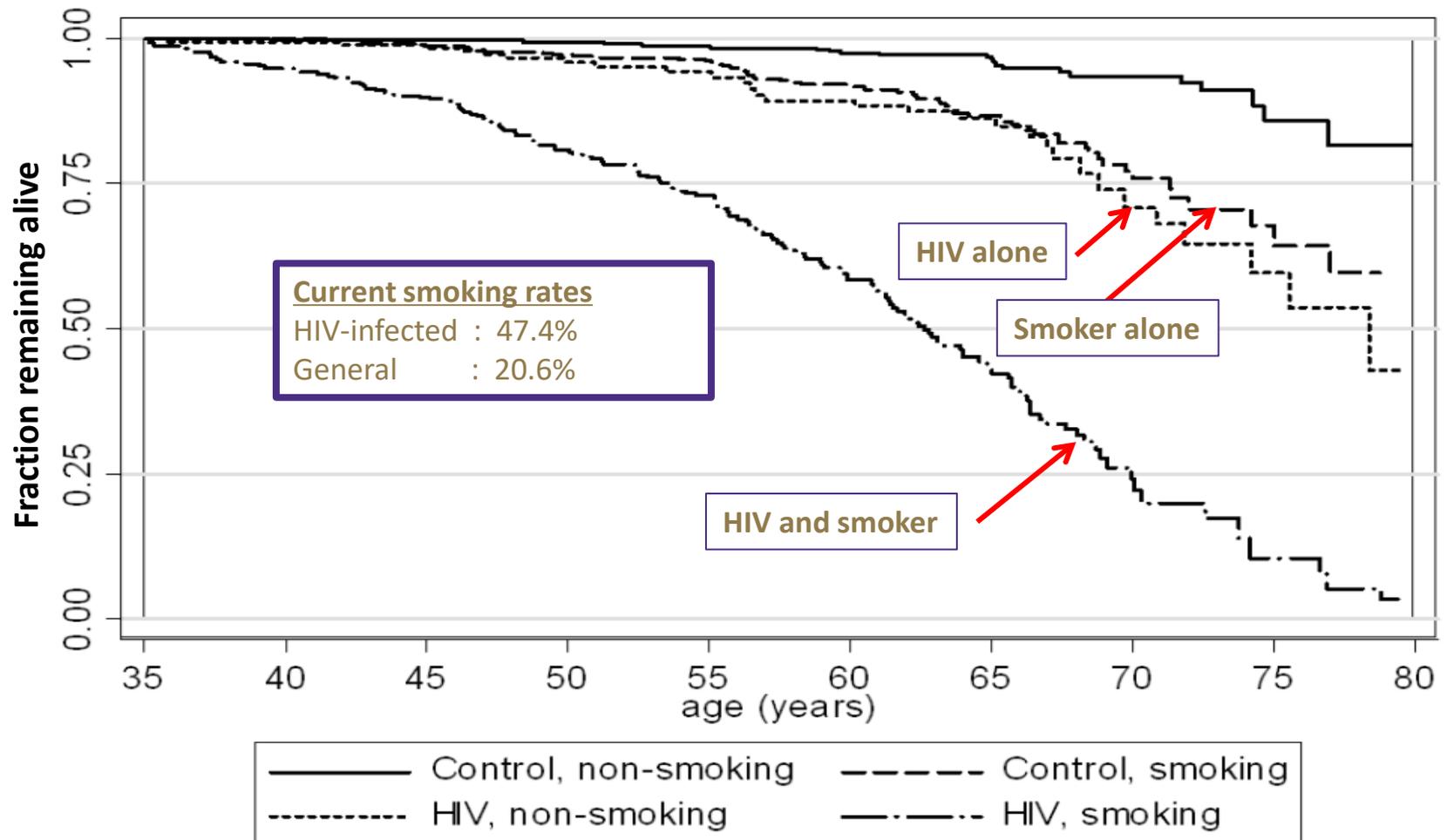
Menthol cigarette use among current smokers (aged 12+) in the U.S. by race/ethnicity



Source: Tobacco control



All-Cause Mortality Among Persons with HIV Infection and Smokers, Denmark 1995-2010 (n=13,563)



Solutions – Massachusetts Medicaid

- As part of “Romneycare”:
 - Generous smoking cessation benefit
 - Strong promotion and systematic access
 - 37% of Medicaid recipients in Massachusetts used the benefit
 - Among adult Medicaid members in Massachusetts, prevalence fell from 38% to 28% after the state implemented comprehensive cessation coverage
 - ~50% reduction in cardiovascular hospitalizations
- Insurance-based coverage of smoking cessation treatments increased quit attempts, use of treatments, and successful cessation

Solutions – VA Proactive Treatment Trial

- 6400 current smokers identified via VA EMR
- Randomized to usual care or proactive outreach:
 - Offer of telephone or in-person cessation services via mail and phone recruitment
- One-year abstinence 13.5% proactive vs 10.9% usual
- Logistic regression OR 1.27 (1.07-1.57)

Solutions: *Tips* Campaign with treatment referral

- Large national media ad buy for over a decade
- Goals:
 - Raise awareness of the negative health effects caused by smoking and exposure to secondhand smoke
 - Encourage smokers to quit
 - Let people know that free help is available by calling 1-800-QUIT-NOW

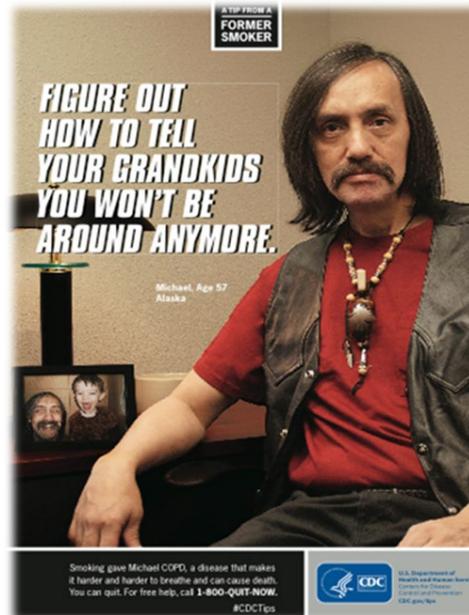


Tips Campaign Targeted Populations

- Those of low socio-economic status
- African Americans
- Hispanics/Latinos
- Asian Americans
- American Indians/Alaska Natives
- LGBTs
- Mothers and pregnant women
- Specific years have also targeted:
 - Dual users of e-cigarettes
 - Mental illness
 - Military/veterans

Ads Show the Diversity of U.S. Smokers

- Finding: Race/ethnicity of ad participants does not affect ad receptivity among respondents
 - However, it's important that specific populations see themselves in the overall campaign



Include People From Target Population Who Have Had Relevant Experiences

A TIP FROM A FORMER SMOKER

Brian had his HIV under control with medication. But smoking with HIV caused him to have serious health problems, including a stroke, a blood clot in his lungs and surgery on an artery in his neck. Smoking makes living with HIV much worse. You can quit.

CALL 1-800-QUIT-NOW.

HIV alone didn't cause the clogged artery in my neck. Smoking with HIV did.

Brian, age 45, California

U.S. Department of Health and Human Services
Center for Disease Control and Prevention
CDC.gov/tips

#CDCTips

The advertisement features a man named Brian, age 45, from California. He is shown in two images: one where he is looking to the side with a serious expression, and another where he is sitting at a table with several pill bottles in front of him. The text highlights his experience with HIV and the complications caused by smoking, such as a stroke, a blood clot, and surgery on an artery. A red circle highlights the phone number 1-800-QUIT-NOW.

Help quitting made available on all ads

Develop Formats that Align with Media Consumption Preferences

담배를 끊으시거나 다른 부분을 끊어내야 하는 위험을 감수하십시오.

오른 흡연은 즉시 신체에 악영향을 끼치며, 일, 담배 등 등의 일련 가능성을 심각하게 증가시킵니다. 하지만 이것의 진정한 의미는 무엇입니까? 흡연의 실질적인 영향에 대한 이해를 돕기 위해, 질병통제예방센터(CDC)에서는 실제 이젠 흡연자들에게 그들의 이야기를 함께 공유하도록 요청했습니다.

손(Sarah): 3년 이상 흡연하며, 많은 기침과 후두염, 만성적으로 피부염을 세 세로 앓아왔습니다. 그 밖에서 3년간 많은 피부 치료 비용을 지출하며, 그 후후를 잘 안 앓았을지라도 그는 항상 같은 기침을 통해 고통 받고 있을 지는 계속 앓아왔습니다. "일단 끊어야" 그는 말했다. "제 몸 상태를 더 좋아 할 것 같고 더 잘 살아가고 싶어요" 그는 흡연 중단 후 1년 동안 이야기 해주었습니다.

다리를 끊어내기 (David): 다리를 끊어내야 할지 고민하고 있습니다. "제 몸 상태를 더 좋아 할 것 같고 더 잘 살아가고 싶어요" 그는 흡연 중단 후 1년 동안 이야기 해주었습니다.

배를 제거한 후 당신의 속을 알게 되어야 합니다. (Annette):

기관기를 치료하지 않도록 조심하십시오. (Brandon):

전화 한 통화로 무료 금연 서비스를 받으십시오 무료 상담을 받으려면 **1-800-556-5564**

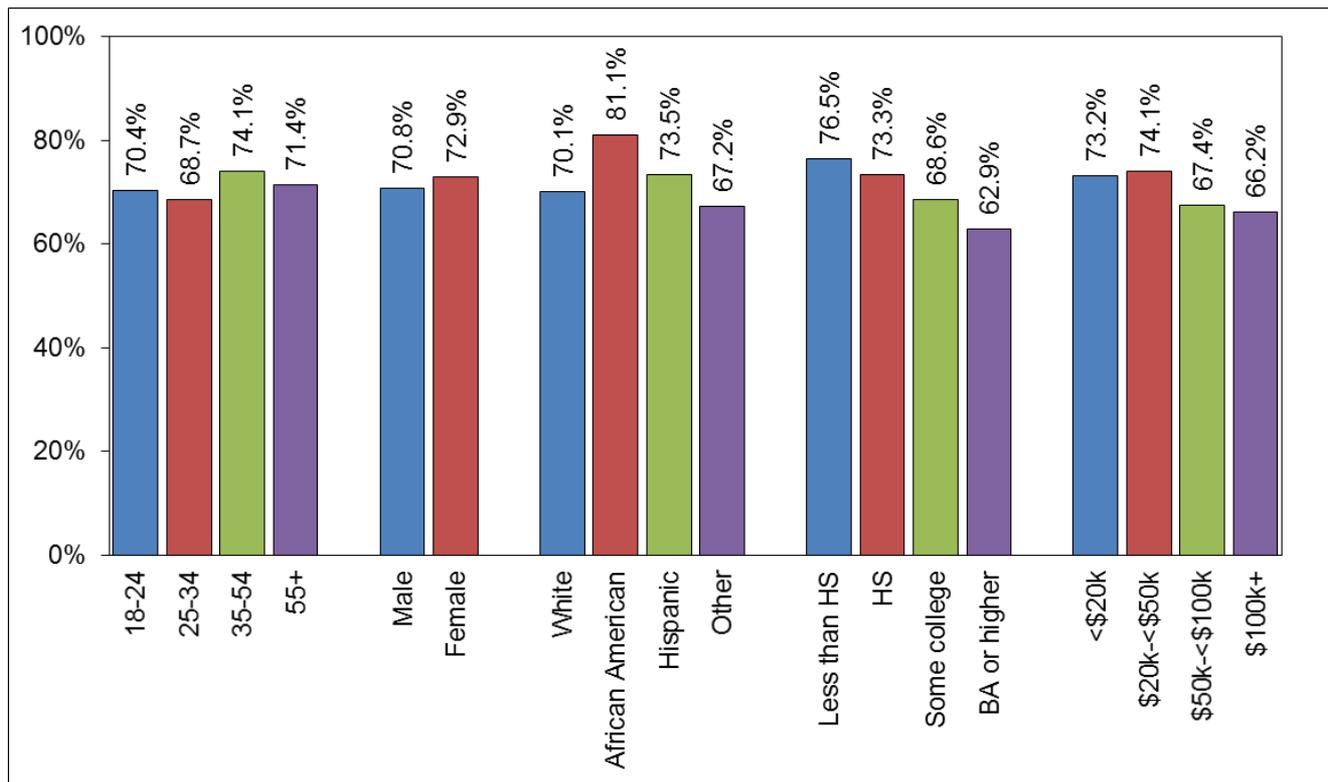
미국 질병통제예방센터 (CDC)의 금연 서비스는 무료이며, 금연을 위한 모든 지원을 제공합니다. 금연을 위한 모든 지원을 제공합니다. 금연을 위한 모든 지원을 제공합니다.

Dr. Elmer Huerta
Oncología y Salud Pública

CDC LINEA DE AYUDA

Tips Awareness among Various Demographics

- Highest awareness rates among lower SES and African Americans:
- Example: 2014 *Tips* Awareness Among Smokers



Reactions and Receptivity to *Tips* ads by Race/ethnicity

- African Americans, Hispanics more likely to rate *Tips* ads as:
 - convincing
 - attention grabbing
 - powerful, etc.
- African Americans, Hispanics have greater emotional reactions and motivation to quit after seeing ads
- Race/ethnicity of ad participants not significant determinant of overall reactions/receptivity to ads
 - Suggests strong, compelling messages matter most

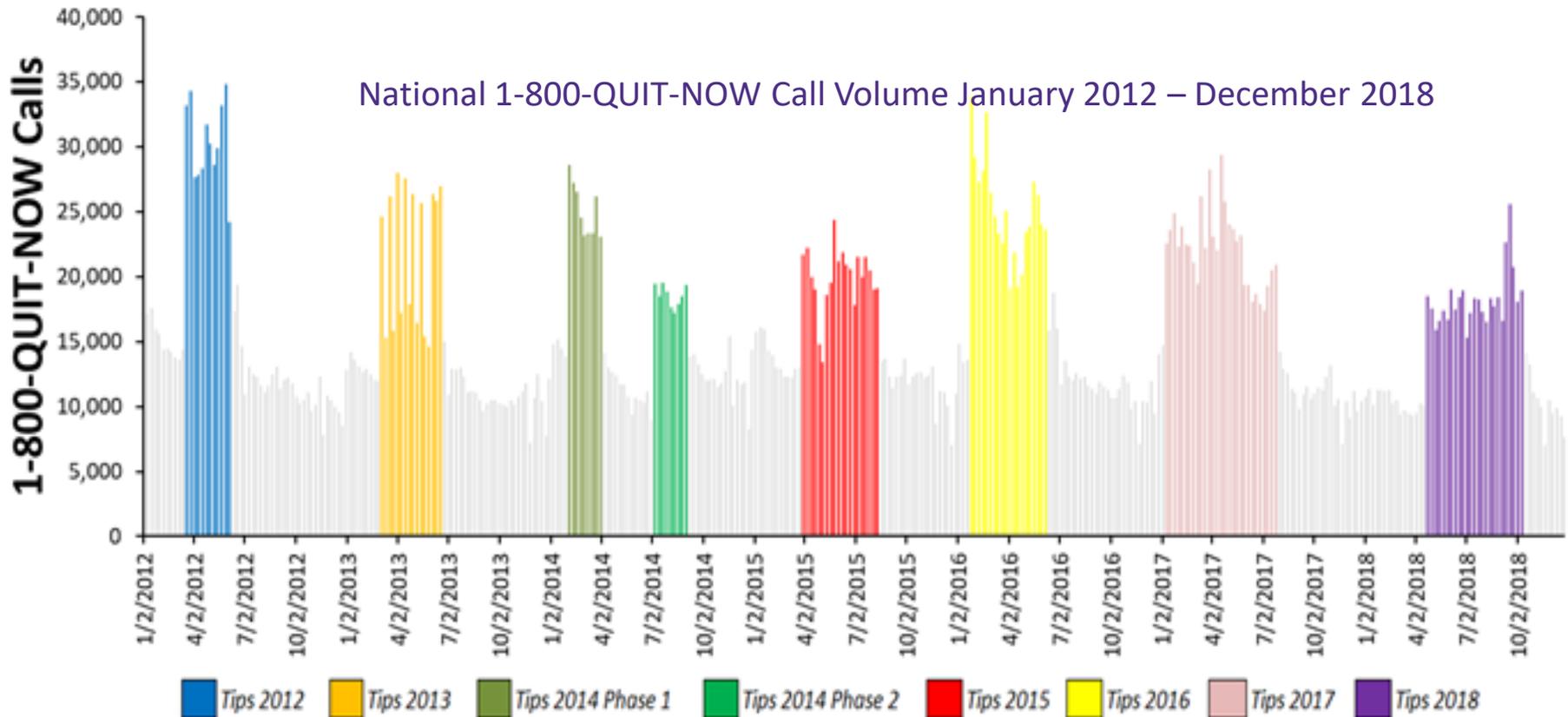
“You can quit. For free help, call 1-800-QUITNOW”

OR

“You can quit. For free help, visit www.cdc.gov/tips”

Tips Drives Quits: Campaign Results 2012-2018

An estimated 1 million people quit permanently



The Lancet, Early Online Publication, 9 September 2013

Effect of the first federally funded US antismoking national media campaign



Tim McAfee, Kevin C Davis, Robert L Alexander Jr, Terry F Pechacek, Rebecca Bunnell

Summary

Background Every year, smoking kills more than 5 million people globally, including 440 000 people in the USA, where the long-term decline in smoking prevalence has slowed. The US Centers for Disease Control and Prevention (CDC) delivered a national, 3-month antismoking campaign called Tips From Former Smokers (Tips) that started in March, 2012, in which hard-hitting, emotionally evocative television advertising was featured, depicting smoking-related suffering in real people. We aimed to assess the effects of the Tips campaign.

Methods We undertook baseline and follow-up surveys of nationally representative cohorts of adult smokers and non-smokers. The national effect of the Tips campaign was estimated by applying rates of change in the cohort before and after the campaign to US census data.

Published Online
September 9, 2013
[http://dx.doi.org/10.1016/S0140-6736\(13\)61686-4](http://dx.doi.org/10.1016/S0140-6736(13)61686-4)
See Online/Comment
[http://dx.doi.org/10.1016/S0140-6736\(13\)61839-5](http://dx.doi.org/10.1016/S0140-6736(13)61839-5)

Office on Smoking and Health,
National Center for Chronic
Disease Prevention and Health
Promotion, Centers for Disease
Control and Prevention,

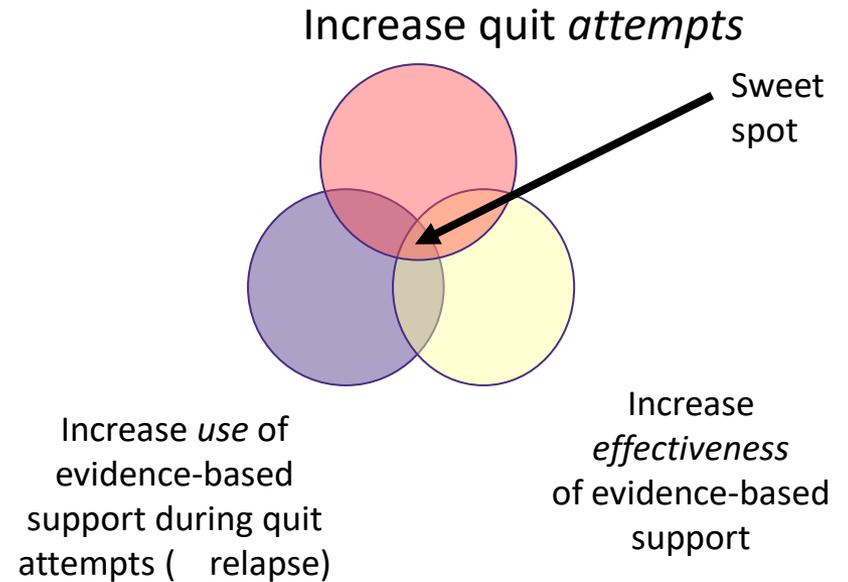
| Saw at Least One Ad | Quit Attempts | Quit at End of Campaign | Likely to Quit Permanently |
|--------------------------------|-----------------------------------|-------------------------|----------------------------|
| 80% smokers 75% non-smokers | 1.6 million additional (12%) more | More than 200,000 | 100,000 |

2013 Media Market Randomized Trial

Increased dose effects

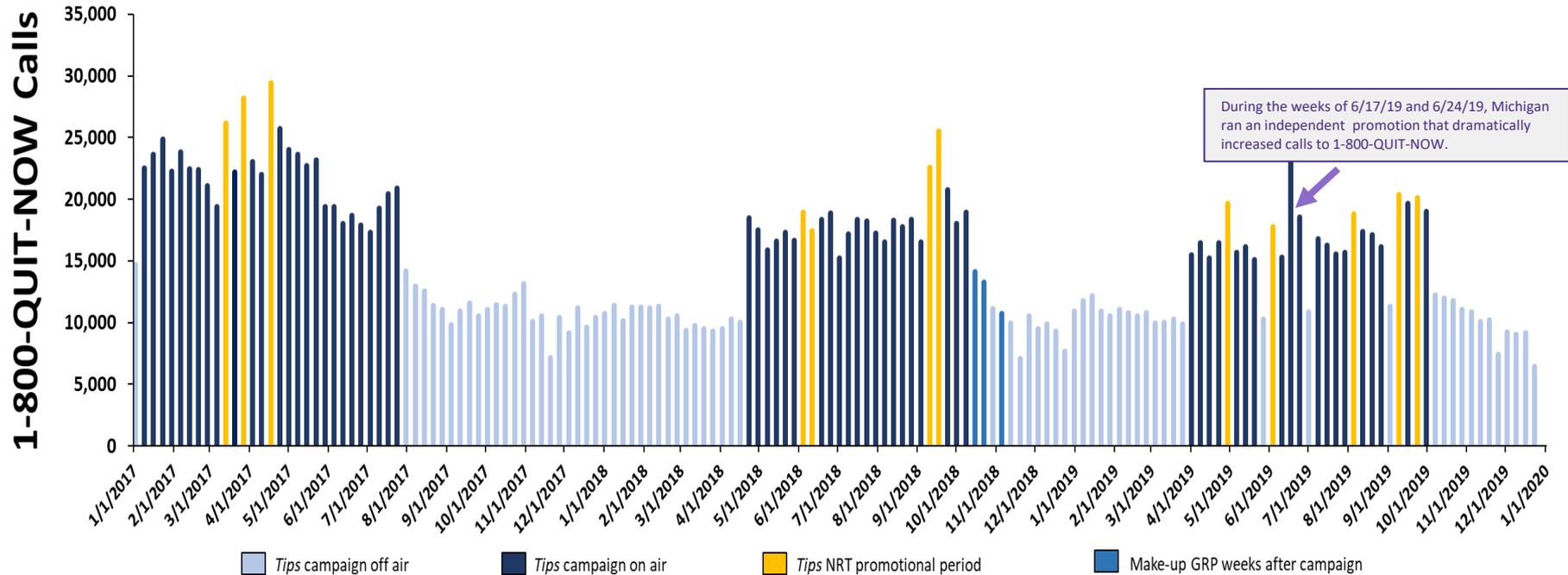
- Provided increased exposure dose to 67 randomly selected media markets in US
- Detected an effect on quit attempts, ad awareness, and disease knowledge
- Effect on quit attempts markedly larger in African-Americans:
 - From 31.8% standard dose to 50.9% with higher dose
- Also higher in those with non-mental chronic disease

A TIP FROM A
**FORMER
SMOKER**



Example of *Tips* Ad Featuring an Offer of Free Cessation Medication

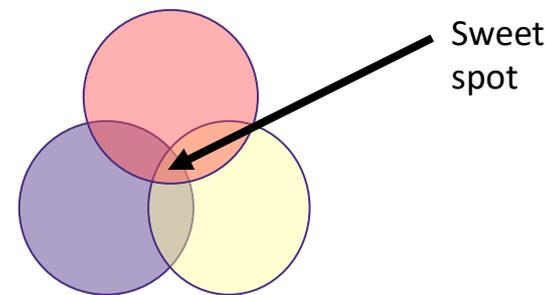
Results: Weekly 1-800-QUIT-NOW Call Volume, January 2, 2017 – December 29, 2019



Zhang L et al. The Impact of Adding An Offer of Free Cessation Medication to National Antismoking Advertisements on Quitline Calls to 1-800-QUIT-NOW. SRNT 2020 presentation, CDC OSH.

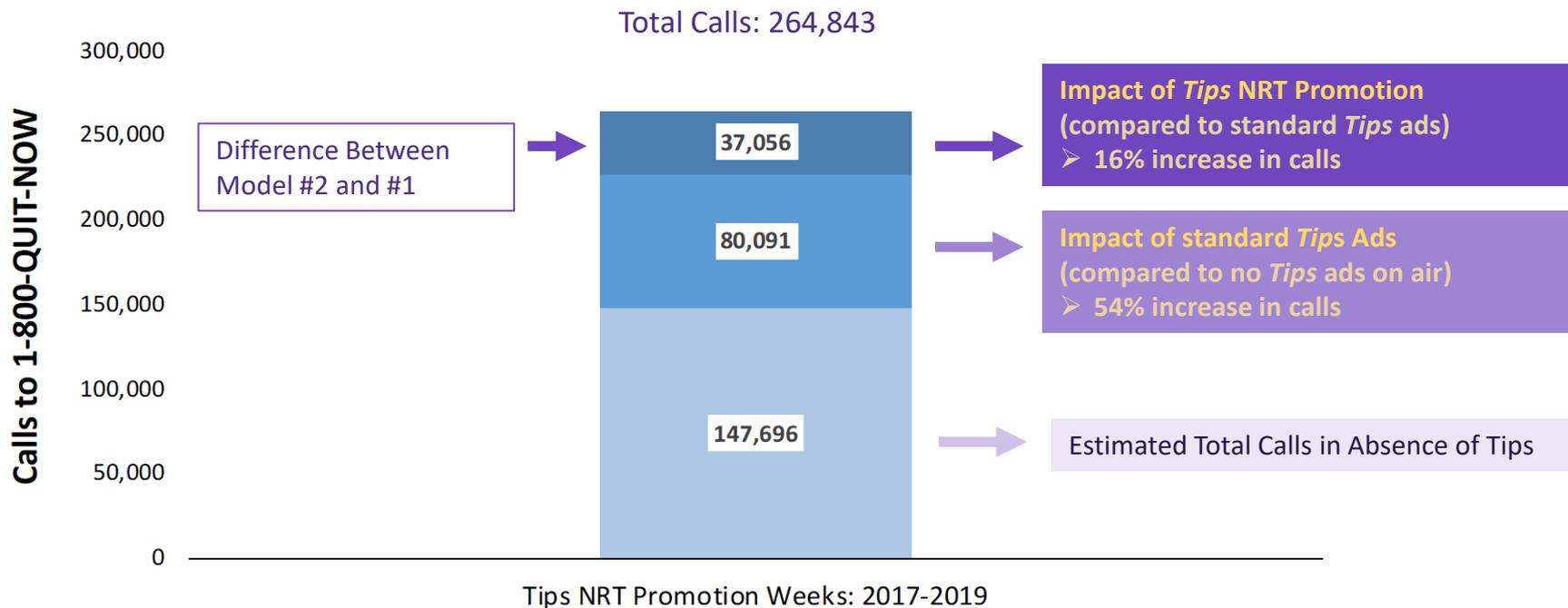
Results: Impact of the 2017-2019 NRT Promotions on Quitline Calls to 1-800-QUIT-NOW during 15 NRT Promotion Weeks

Increase quit *attempts*



Increase *use* of evidence-based support during quit attempts

Increase *effectiveness* of evidence-based support



What you can do:

- Ensure your healthcare setting:
 - systematically identifies tobacco use status
 - Has barrier-free resources available for tobacco users
 - Includes resources appropriate for populations of concern
 - Includes metrics on tobacco use treatment in QI
- Remain empathetic and committed to helping *all* tobacco users quit
 - A health equity issue
 - An opportunity often wasted
- Be aware of and battle against continued disparities impacting groups that are subjected to racism and other forms of discrimination

Conclusions



- Effective treatments exist
- “Treatment” is multi-faceted:
 - Medications, counseling, healthcare system, and environmental support
 - Increasing quit attempts and use of treatment support = **quit success**
- Smokers/tobacco users suffer from health inequity, healthcare access disparities, and social justice concerns
- Barriers to treatment use have decreased but are still high
- Multiple sub-populations, including those with high smoking burden, have worse access barriers and lower use of treatments
- Solutions exist, but have not been sufficiently applied

Resources



WA state quitline – free 5-call coaching, free 2 weeks of NRT for un/under-insured. Many with Medicaid or private insurance can get more. Funding-dependent.

Patients can access by calling: 1-800-QUIT-NOW
or in WA by visiting www.quitnow.net

You can refer directly online:

<https://www.quitnow.net/mve/quitnow?qnclient=washington>



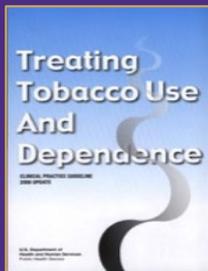
Clinic system improvement:

https://www.cdc.gov/tobacco/basic_information/for-health-care-providers/index.html



In-clinic resources:

<https://www.cdc.gov/tobacco/campaign/tips/partners/health/index.html>



Comprehensive reviews of tobacco treatment:

Treating Tobacco Use and Dependence: Clinical Practice Guide

UpToDate: Rigotti – Overview of Smoking Cessation in Adults
Pharmacotherapy for Smoking Cessation



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