### 7th ICO-WHO SYMPOSIUM ON TOBACCO CONTROL

### Smoke-Free Private Places: Homes and Vehicles

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Rollins School of Public Health Atlanta, GA, USA















### Exposure to Secondhand Smoke

### **Overall Good News:**

• Secondhand smoke (SHS) exposure in the U.S. declined significantly

### **Problems Remain:**

- Home is now a major source of exposure since most worksites are smoke-free
- Over 90% of households with only nonsmokers report a smoke-free home, but just 53.7% of households  $\geq$  one person who smokes
- Notable disparities in smoke-free homes by SES and race/ethnicity

Tsai J, Homa DM, Gentzke AS, Mahoney M, Sharapova SR, Sosnoff CS, Caron KT, Wang L, Melstrom PC, Trivers KF. Exposure to Secondhand Smoke Among Nonsmokers - United States, 1988-2014. MMWR Morb Mortal Wkly Rep. 2018 Dec 7;67(48):1342-1346. doi: 10.15585/mmwr.mm6748a3. PMID: 30521502; PMCID: PMC6329485.

Homa DM, Neff, L.J., King, B.A., Carballo, R.S., Bunnell, R.E., Babb, S.D., Garrett, B.E., Sosnoff, C.S., Wang, L. Vital Signs: Disparities in Nonsmokers' Exposure to Secondhand Smoke- United States, 1999-2012. MMWR. 2015; 64:6.

#icowho2024



### Smoke-Free Homes: Some Things are Better Outside (evidence-based)

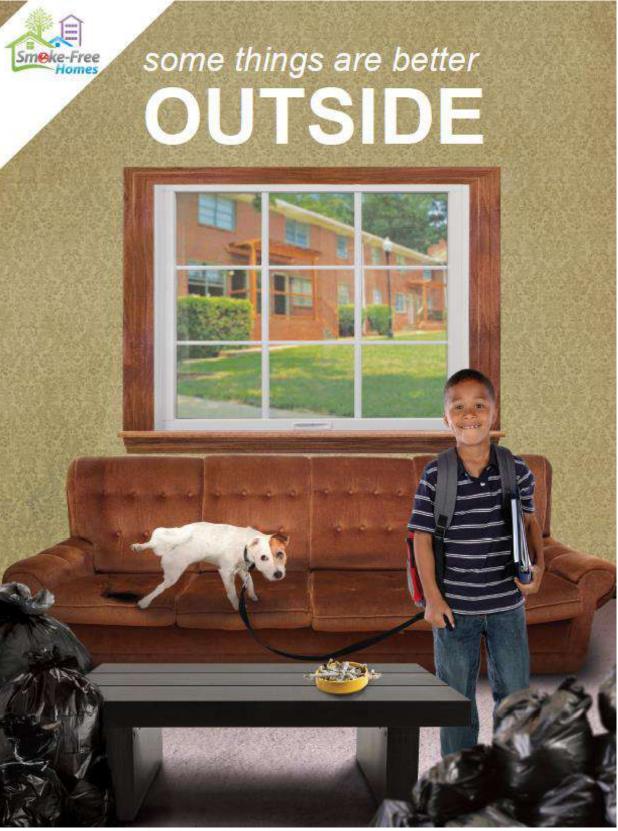
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Evide	nce-Based C	ancer Cont	rol Progra	ims (EBCCP)				
HOME	SEARCH FOR, PROGRAMS	PROGRAM	CASE	HELP &	NEWSLETTER -	ABOUT -	Search All EBCCP	٩
tione	Smake-Free Ho	mes Some Phings (	ire Better Outsid	1			8 8 (	0 0

#### **Smoke-Free Homes: Some Things are Better Outside**

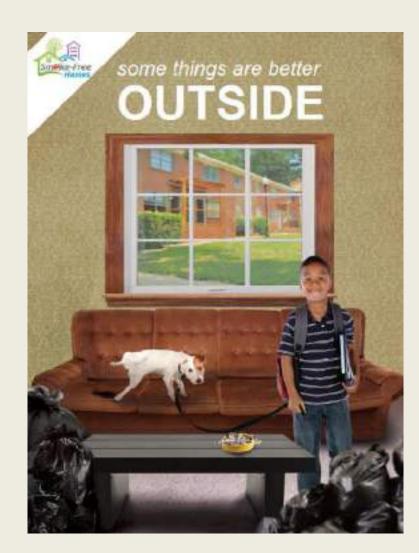
PROGRAM SYNOPSIS	Designed to promote home smoking bans to reduce second hand smoke exposure in the home, this intervention consists of various mailed materials (including a guide describing the steps to establishing a smoke-free home) and one coaching call that together apply strategies of persuasion, role modeling, goal setting, environmental cues, and written and verbal reinforcement of actions taken to create smoke-free homes. The studies showed higher implementation of a full home smoking ban and decreased exposure to second-hand smoke.
	Purpose: The program is designed to promoto home smoking bars to reduce second-hand smoke exposure in the berne. (2015)
	Age: 19-39 years (Young Adults), 40-65 years (Adults), 65+ years (Older Adults)
	Sex: Female, Male
PROGRAM	Race/Ethnicity: Alaska Native, American Indian, Asian, Black - not of Hapanic or Latino origin, Hapanic or Latino, Parific Islander, White - not of Hispanic or Latino origin
HIGHLIGHTS	Program Focus: Awareness of impact of second-hand smoke exposure in the home, Behavior Modification and Smoke-free Environment
	Population Focus: This information is not available.
	Program Areas Tobacco Control
	Delivery Location: Home, Other Settings
	Community Type: Raral, Suburban, Urban/Inner City

https://ebccp.cancercontrol.cancer.gov/programDetails.do?programId=28303637



### "Brief" Intervention to Create a Smoke-Free Home

Component	Timing	Description
1	Week 0	First mailing of print materials
2	Week 2	Coaching call
3	Week 4	Second mailing of print materials
4	Week 6	Third mailing of print materials













#### I can help you make your home smokefree!



## Coaching Call

Based on stage of change and motivational interviewing

15–20 minutes

Guides through the 5-steps of creating a smoke-free home

Works through specific challenges and discuss solutions

Negotiates goals/action plan based on stage

# Why a "Brief" Intervention? Easier to deliver in a range of settings Higher potential for scalability and greater reach Even if less effective than a more intensive intervention, a greater

reach can allow for greater public health impact

### Comparison of Primary Outcomes Across Trials (Efficacy, Effectiveness, Generalizability)

Result	Georgia	North Carolina	Texas
Three month full ban	I: 30.4%	l: 38.1%	I: 46.6%
	C: 14.9%	C: 19.3	C: 25.4%
	<b>Diff: 15.5%</b>	Diff: 18.8%	Diff: 21.2%
Six month full ban	I: 40.0%	I:43.2%	l: 62.9%
	C: 25.4%	C: 33.2%	C: 38.4%
	<b>Diff: 14.6%</b>	Diff: 10.0%	Diff: 24.5%
Six month OR from ITT	1.56	1.72	2.19

## Steps Taken by Smoking Status (Georgia Trial)

Question	% Yes	Smoker	
Question	70 165	% Yes	
Did you			
come up with a list of reasons for SFH?	76.0	74.6	
have a family talk?	92.7	91.5	
sign the pledge?	50.3	45.4	
post the pledge?	50.8	50.8	
put up signs?	60.3	59.2	
use stickers?	65.9	64.6	
call smoking cessation services?	19.6	21.5	

Non-smoker % Yes	p-value
79.6	.48
95.9	.31
63.3	.03
51.0	.98
63.3	.66
69.4	.63
14.3	.28

		Table 1   Key adaptation ste	ps and descrip
	• •	Step name	
Adaptation Process	s underway in:	1.Assess community	<ul> <li>Identify groups, i</li> <li>Assess of</li> </ul>
Tribal communities		2.Understand the intervention	<ul><li>Identify</li><li>Understand</li></ul>
Tribal communities		3.Select intervention	<ul> <li>Select th</li> </ul>
Armenia and Georg	ia	4.Consult with experts	<ul><li>Consult</li><li>Incorport</li></ul>
Spain		5.Consult with stakeholders	<ul> <li>Seek inp takes pla</li> <li>Identify</li> </ul>
•			program
Brazil		6.Decide what needs adaptation	<ul> <li>Decide v</li> <li>Theater adaptati</li> <li>Determin factors</li> <li>Identify content,</li> <li>Retain fi</li> <li>Systematic</li> </ul>
TBM	ORIGINAL RESEARCH	7.Adapt the original program	<ul> <li>Develop</li> <li>Adapt th</li> <li>Make cu</li> <li>Core cor</li> </ul>
		8.Train staff	<ul> <li>Select a</li> </ul>
A scoping study of framew evidence-based interventi	vorks for adapting public health ions	9.Test the adapted materials	<ul> <li>Pretest a</li> <li>Conduct</li> <li>Pilot tes</li> <li>Modify E</li> </ul>
Cam Escoffery, <sup>1</sup> Erin Lebow-Skelley, <sup>1</sup> Hallie Ude Maria E. Fernandez, <sup>2</sup> Patricia D. Mullen <sup>2</sup>	elson, <sup>1</sup> Elaine A. Böing, <sup>1</sup> Richard Wood, <sup>2</sup>	10.Implement	<ul> <li>Develop</li> <li>Identify</li> <li>Develop</li> <li>Execute</li> </ul>
		11.Evaluate	<ul> <li>Docume vention a</li> <li>Write ev collectio</li> <li>Employ a</li> </ul>

Escoffery C, Lebow-Skelley E, Udelson H, Böing EA, Wood R, Fernandez ME, Mullen PD. A scoping study of frameworks for adapting public health evidence-based interventions. Transl Behav Med. 2019 Jan 1;9(1):1-10. doi: 10.1093/tbm/ibx067. PMID: 29346635; PMCID: PMC6305563.

#### Table 1 Key adaptation steps and descriptions

#### Step descriptions

- ly behavioral determinants and risk behaviors of the new target population using focus
- s, interviews, needs assessments, and logic models
- s organizational capacity to implement the program
- ly and review relevant EBPs and their program materials
- stand the theory behind the programs and their core elements
- the program that best matches the new population and context
- It content experts, including original program developers, as needed
- orate expert advice into program
- nput from advisory boards and community planning groups where program implementation place
- ly stakeholder partners who can champion program adoption in new setting and ensure am fidelity
- e whether to adapt or implement original program
- er test selected EBP using new target population and other stakeholders to generate ations
- nine how original and new target population/setting differ in terms of risk and protective
- ly areas where EBP needs to be adapted and include possible changes in program structure, nt, provider, or delivery methods
- fidelity to core elements
- matically reduce mismatches between the program and the new context
- op adaptation plan
- the original program contents through collaborative efforts
- cultural adaptations continuously through pilot testing
- omponents responsible for change should not be modified
- and train staff to ensure quality implementation
- t adapted materials with stakeholder groups
- ict readability tests
- est adapted EBP in new target population
- y EBP further if necessary
- op implementation plan based on results generated in previous steps
- ly implementers, behaviors, and outcomes
- op scope, sequence, and instructions
- te adapted EBP
- nent the adaptation process and evaluate the process and outcomes of the adapted inter-
- n as implemented
- evaluation questions; choose indicators, measures, and the evaluation design; plan data ion, analysis, and reporting
- y empowerment evaluation approach framework to improve program implementation

**ORIGINAL PAPER** 



#### A Qualitative Study about Creating Smoke-free Home Rules in American Indian and Alaska Native Households

Michelle C. Kegler<sup>1,6</sup> · Katherine Anderson<sup>1</sup> · Lucja T. Bundy<sup>1</sup> · Deana Knauf<sup>2</sup> · June Halfacre<sup>3</sup> · Cam Escoffery<sup>1</sup> · Andre Cramblit<sup>4</sup> · Patricia Henderson<sup>5</sup>

## Theme:

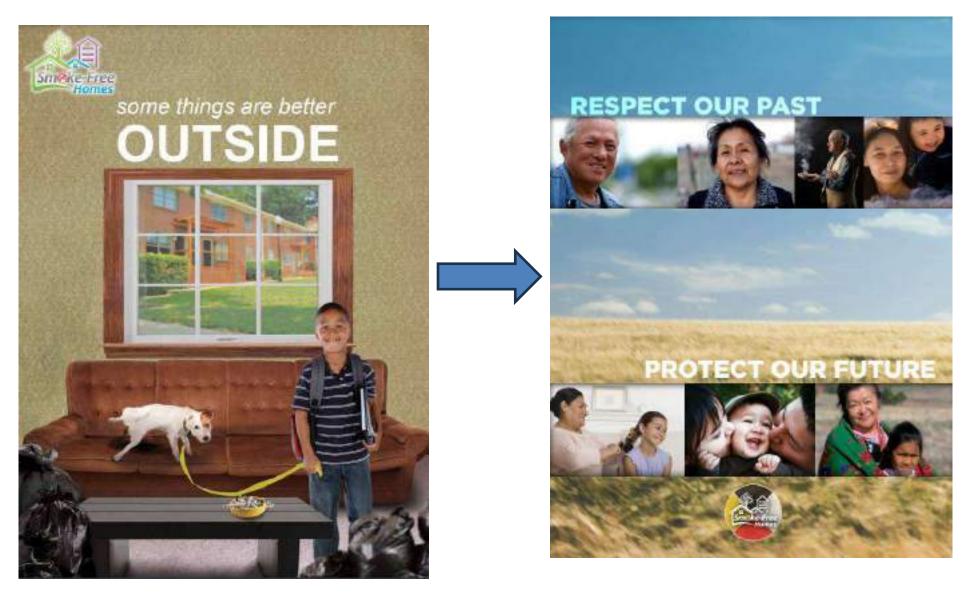
### Some Things are Better Outside (General Population) →

### Respect our Past, Protect our Future (Tribal)

#### **RESEARCH ARTICLE**

### Adaptation of a brief smoke-free homes intervention for American Indian and Alaska Native families

Katherine M. Anderson<sup>1</sup>, Michelle Cam Escoffery<sup>1</sup>



#### (2019) 19:981 301-4

### **BMC** Public Health

#### **Open Access**



Katherine M. Anderson<sup>1</sup>, Michelle C. Kegler<sup>1</sup><sup>\*</sup>, Lucja T. Bundy<sup>1</sup>, Patricia Henderson<sup>2</sup>, June Halfacre<sup>3</sup> and

## Pre-Testing Materials



Value our tradition.

5-STEP GUIDE TO A **SMOKE-FREE HOME** 



Value our tradition















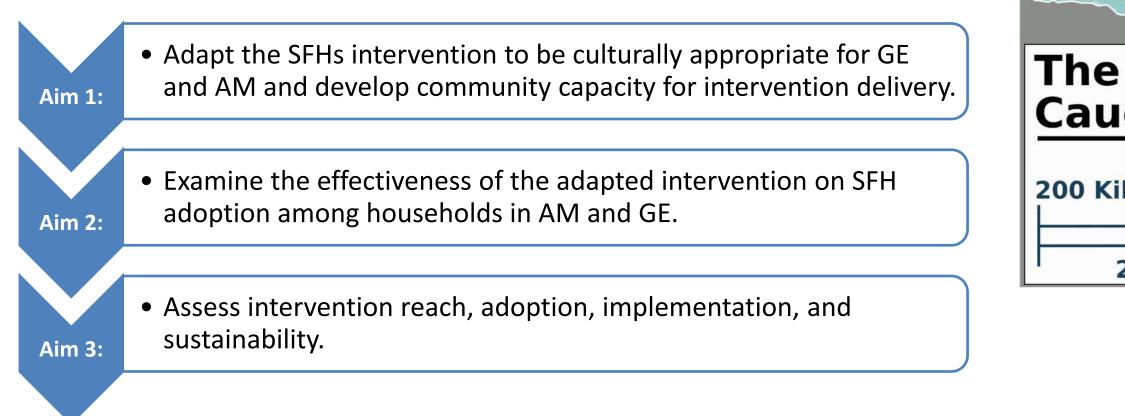
### **Purpose:** pre-test and refine materials to prepare for specific tribe

GATHER **Georgia & Armenia Teams** for Healthy Environments & Research



- NCI grant to adapt and test the Smoke-Free Homes intervention in Georgia and Armenia
- Partners include
  - Georgia National Center for Disease Control (NCDC)  $\bullet$
  - Armenia National Institute of Health (NIH) ۲
  - American University of Armenia (AUA) ullet

### GATHER-II will use a community-engaged approach to address:



#### MPIs: Carla Berg, PhD, MPH and Michelle Kegler, DrPH, MPH



### GAT = R Georgia & Armenia Teams for Healthy Environments & Research

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Georgia

#icowho2024

Դուք ընտանիքի գլխավորը չեք և չեք կարող տան համար կանոններ սահմանել։



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#### ՄԱՐՏԱՀՐԱՎԵՐ #5

#### ՄԱՐՏԱՀՐԱՎԵՐ #6

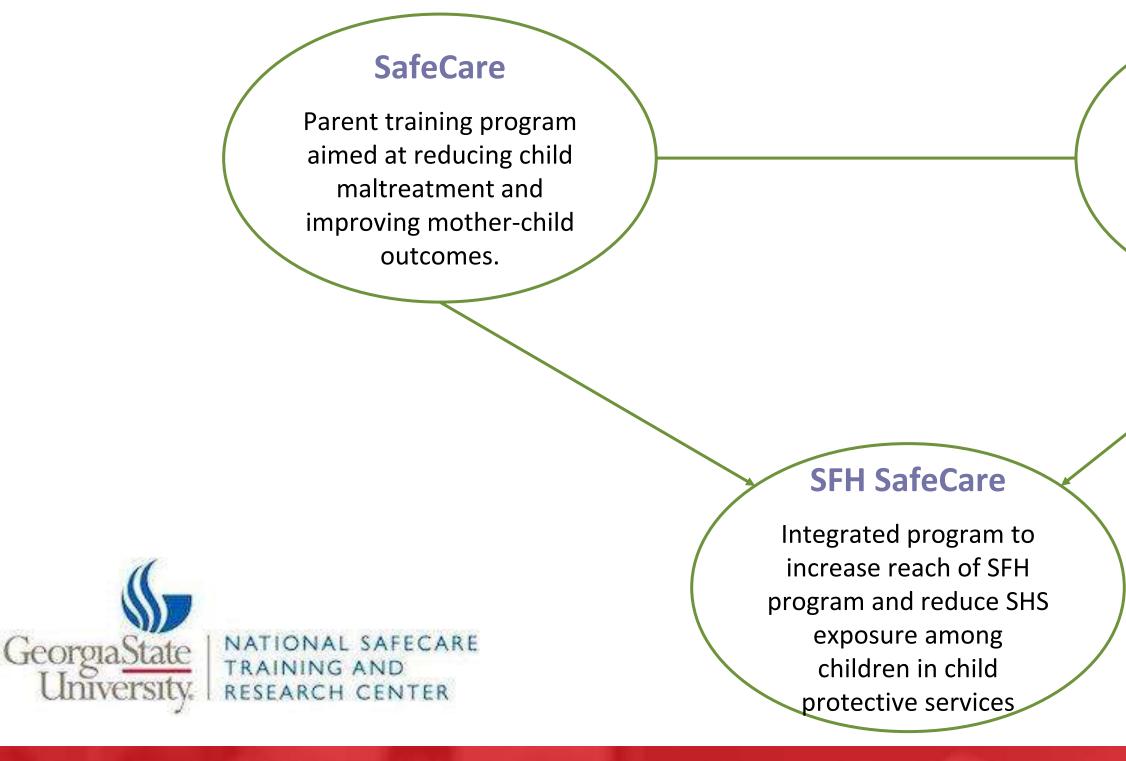
Ընտանիքի ծխող անդամին դուր չի գալիս կանոնը, ուստի անտեսում է։

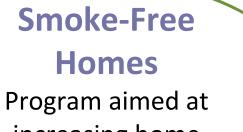
Եթե անգամ ընտանիքի գլխավորը չեք. կարող եք մտածել, թե ինչպես պաշտ-պանեք ձեր և ընտանիքի մյուս անդամների առողջությունը։ Տանը չծխելու մասին զրույցը սկսելուց առաջ ձևակերպեք գլխավոր փաստարկները։

### Armenia

ութեն քայլ դեպի խից ազատ տուն ղը,

### Establishing Smoke-Free Homes With Families Involved in Child Protective Services: An Effectiveness-Implementation Trial of an Integrated Program





increasing home smoking bans and reducing exposure to secondhand smoke



Emory Prevention Research Center

### **Population-Level Approaches to Promoting Smoke-Free Homes**

- Smoke-free legislation can increase prevalence of smoke-free homes
- Community education on smoke-free homes shown to increase smoke-free homes in some studies...

	BMJ Global Health	E
Research paper	C	C
Association between clean indoor air laws and voluntary smokefree	C	C
Kai-Wen Cheng <sup>1</sup> , Cassandra A Okechukwu <sup>2</sup> , Robert McMillen <sup>1</sup> , Stanton A Glantz <sup>4</sup> Correspondence to Dr Kai-Wen Cheng, College of Public Health, Institute of Health Policy and Management, National Taiwan University, No. 17 Xu-Chow Rd, Room 621, Taipei 100, Taiwan; kwcheng19@ntu.edu.tw	C	
Abstract Objectives This study examines the influence that smokefree workplaces, restaurants and bars have on the adoption of smokefree rules in homes and cars, and whether there is an association with adopting smokefree rules in homes and cars.		tr
Methods Bivariate probit models were used to jointly estimate the likelihood of living in a smokefree home and having a smokefree car as a function of law coverage and other variables. Household data were obtained from the nationally representative Social Climate Survey of Tobacco Control 2001, 2002 and 2004–2009; clean indoor air law data were from the American Nonsmokers' Rights Foundation Tobacco Control Laws Database.	L	Cai Lilit Ma Mic
Results 'Full coverage' and 'partial coverage' smokefree legislation is associated with an increased likelihood of having voluntary home and car smokefree rules compared with 'no coverage'. The association between 'full coverage' and smokefree rule in homes and cars is 5% and 4%, respectively, and the association between 'partial coverage' and smokefree rules in homes and cars is 3% and 4%, respectively. There is a positive association between the adoption of smokefree rules in homes and cars.		
Conclusions Clean indoor air laws provide the additional benefit of encouraging voluntary adoption of smokefree rules in homes		

**Original research** 

xamining local smoke-free oalitions in Armenia and Georgia: ontext and outcomes of a matchedairs community-randomised ontrolled rial

urla J Berg 💿 ,<sup>1</sup> Regine Haardörfer,<sup>2</sup> Arevik Torosyan,<sup>3</sup> Ana Dekanosidze,<sup>4,5</sup> t Grigoryan,<sup>3</sup> Zhanna Sargsyan,<sup>6</sup> Varduhi Hayrumyan,<sup>6</sup> Lela Sturua,<sup>4,7</sup> arina Topuridze,<sup>4,7</sup> Varduhi Petrosyan,<sup>6</sup> Alexander Bazarchyan,<sup>3</sup> chelle C Kegler<sup>2</sup>

### Public Health Sector Active in Promoting Smoke-Free Multi-Unit Housing

- As of October 1, 85 municipalities have enacted a law at the city or county level that prohibits smoking in <u>100% of private units of rental multi-unit housing properties</u>.
- The majority prohibit smoking in 100% of private units of both <u>rental and owner-occupied</u> multiunit housing properties.
- All in California! Source: Americans Nonsmokers' Rights Foundation (2024)
- U.S. Department of Housing and Urban Development (HUD) funded conventional public housing implemented smoke-free rule in 2017. *Excludes vaping.*



Sprouted from the EPRC's smoke-free homes work and qualitative research with multi-unit housing decisionmakers and residents...



### **GOAL:**

Increase the number of smoke-free apartment communities in Georgia by promoting, recognizing, and providing education on smoke-free multi-unit housing.

**Resources & TA** 

Recognition Program

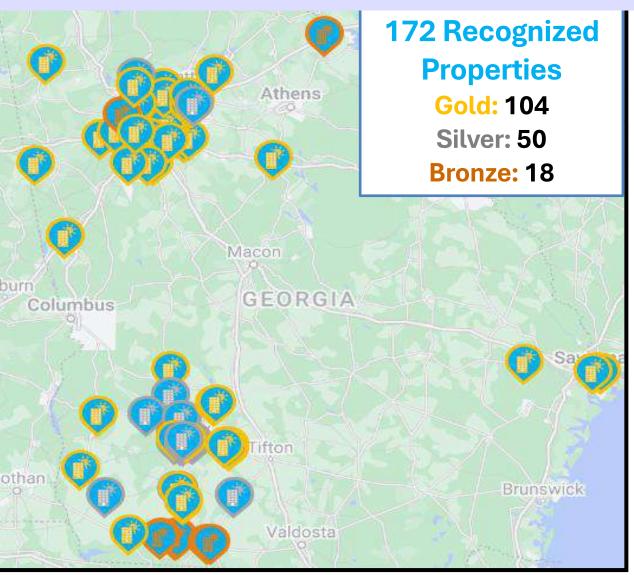
**Marketing & Promotion** 

Learning **Community & Partnerships** 

Breatheeasygahomes.org

121 Link clicks; 128 Engagements









100 Link clicks; 104 Engagements

### Supporting Compliance: Helping residents follow their property's smoke-free policy

- Tips for compassionate policy enforcement
- Integrating <u>Smoke-free Homes</u> to support resident compliance.





### Keeping your property smoke-free



HOW TO ENCOURAGE COMPLIANCE WITH YOUR SMOKE-FREE POLICY

Whether your smoke-free policy is old or new, we've put together some tips to help you maintain a smoke-free environment.

### 1

#### Inform & Educate Residents

Publish and post a written policy and clear signage in visible areas, making it clear where smoking is allowed and prohibited

Meet with residents to clarify and answer questions about the policy

Develop monthly poster campaigns about the importance of smoke-free homes

Collaborate with local partners to provide health education sessions

#### 6

... the advance notice times helped, ...we didn't tell anybody you've got to stop tomorraw, and we also made it clear... that, you know, we're not telling you that you can't smoke, we're just telling you can't smoke indoars.



#### Implementation

Create a clear enforcement plan:

Detail the roles of staff members, how to report a violation, and the enforcement steps.

Train staff to implement and enforce the policy like any other rule. Consistency, absolutely, if you're not - if you're not consistent and fair mean, i don't warn some people three times and some people 20 times - if you're not fair and consistent, you may as well not have the policy.



#### Monitor & Enforce

Create a simple reporting system to track violations

If you receive reports of violations, distribute policy reminders to all residents



Use a graduated enforcement policy (see example on right)



#### **Community Building & Support**

Provide residents with tools, resources, and guidance to support them. For example:

- Provide cessation resources
- Work with residents to identify and address barriers to compliance
- Build a peer support system



### **Eliminating Tobacco-Related Disease** and Death: Addressing Disparities

A Report of the Surgeon General



U.S. Department of Health and Human Services

"Future efforts should employ a three-pronged approach aimed at promoting:

- the household level;
- territorial, state, and local levels."

U.S. Department of Health and Human Services. Eliminating Tobacco-Related Disease and Death: Addressing Disparities—A Report of the Surgeon General. Atlanta, GA: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, Office on Smoking and Health, 2024

• the voluntary adoption of rules for a smokefree home at

smokefree policies in multi-unit housing, and comprehensive smokefree policies at the tribal,

### **Smoke-Free Vehicles**

- Some international momentum in legislation that prohibits smoking in personal vehicles, particularly to protect children
- 12 states in the U.S. prohibit smoking in personal vehicles with a child present



### Some Evidence of Spillover Effect from Smoke-Free Homes on Smoke-Free Vehicles

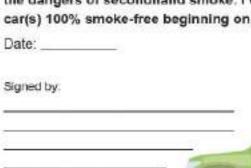
- Atlanta trial, not significant in intent to treat analysis (25.8% control versus 31.9% intervention group at six months)
- NC trial, significant in intent-to-treat analysis (25.3% control versus 37.9% intervention at six months)
- National Grants Program: 18.5% to 49% at two months (no control group)



I MONE FREE CAR NEW RUETTER + ENORS PREVENTION RESEARCH CENTER

#icowho2024







HAVE A SMOKE-FREE CAR



### **Reflection and Discussion**

- Some households are "ready" to create a smoke-free home, just need a nudge and some  $\bullet$ concrete tools
- Disseminating a household-level intervention can be challenging, especially when smoking prevalence is low
- Need to find families that admit to smoking in the home
- May require incentivizing participation
- Hard to get existing systems (i.e., health care, health departments) to prioritize a program that requires staff time to deliver; referrals may work better
- More public health energy around smoke-free multi-unit housing policies in the U.S.
- Government regulation of privately-owned rental housing is tricky in conservative lacksquareenvironments; property owners are key players
- How to handle vaping/aerosol in messaging and policies (harm reduction versus clean messaging)

## Thank You!

### https://web1.sph.emory.edu/eprc/



Partnering with communities and leveraging research to prevent cancer and promote health equity With a strong emphasis on rural Georgia

### **Acknowledgments**

National Cancer Institute Lots of partners!

### **Core Emory Team**

Lucja Bundy Shadé Owolabi **Regine Haardörfer** 

> Want more info, e-mail: mkegler@emory.edu

### 7th ICO-WHO SYMPOSIUM ON TOBACCO CONTROL













Centre Col·laborador de l'OMS per al Control del Tabac





#### Co-funded by the European Union