#### Smoking Cessation Leadership Center



University of California San Francisco

# A smoke-free home intervention in permanent supportive housing for formerly homeless adults

Maya Vijayaraghavan, MD, MAS

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A National Center of Excellence for Tobacco-Free Recovery



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### Smoking Cessation: A Report of the Surgeon General

The first report focused solely on smoking cessation in 30 years



2020 Surgeon General's Report on Smoking Cessation

# Quitting smoking is beneficial at any age.

Executive Summary Key Findings Factsheet Consumer Guide



What You Need to Know About Quitting Smoking ADVICE FROM THE SURGEON GENERAL

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Learn more about this report: CDC.gov/CessationSGR





### Today's Presenter

#### Maya Vijayaraghavan, MD, MAS

Assistant Professor, in the Division of General Internal Medicine Zuckerberg San Francisco General Hospital

University of California, San Francisco







A smoke-free home intervention in permanent supportive housing for formerly homeless adults

Maya Vijayaraghavan, MD MAS Division of General Internal Medicine







# Acknowledgments

- Funding source
  - Tobacco Related Disease Research Program
- Community partners Permanent supportive housing
  - Lifelong Medical
  - Abode Services
  - LifeMoves
- Research team

- Swords to Plowshares
- Delivering innovation in supportive housing
- Community housing partnership



Anne-Berit



Toshali



Holly



Marlena







Arturo

Kenny



2 A smoke-free home intervention in permanent supportive housing



- Describe how tobacco use impacts homeless adults
- Discuss results of a pilot study of a smoke-free home intervention in permanent supportive housing
- Discuss promising strategies to engage with people experiencing homelessness around smoking cessation

# My patient Mr. P

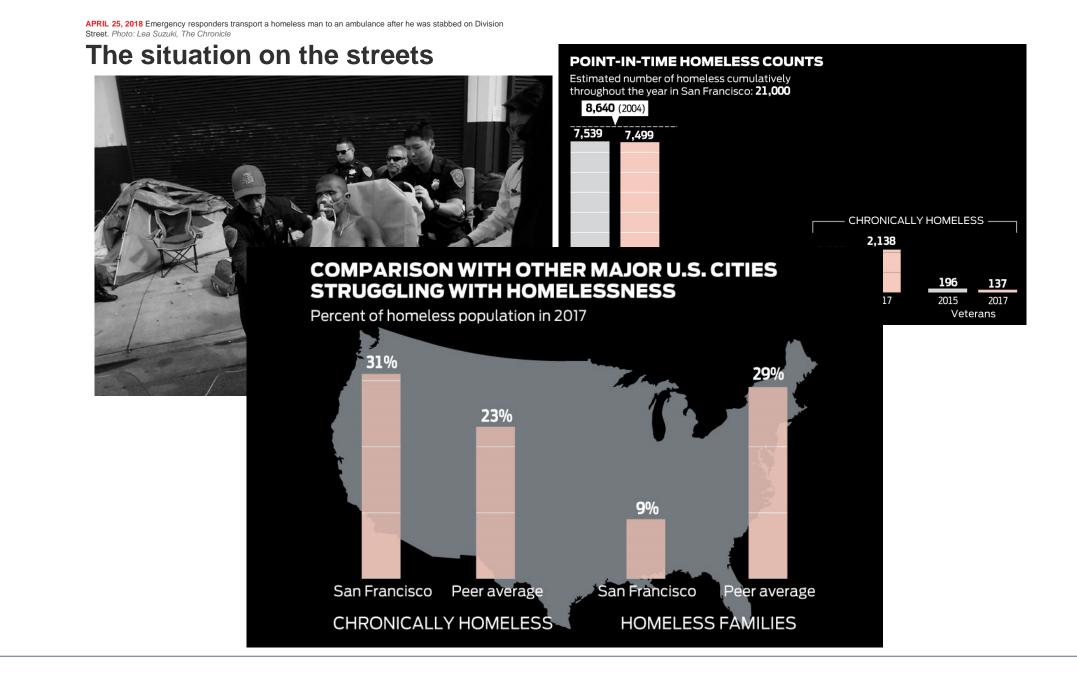
- Has schizophrenia
- Spends time in the Tenderloin
- Unsheltered most of the time
- Several brief encounters with the criminal justice system
- Smokes marijuana regularly, and uses crack/cocaine
- Smokes 10 to 15 cigarettes per day, if he can afford them
- Substitutes cigarettes with little cigars when he can't afford them
- Has severe chronic obstructive pulmonary disease (COPD)
- Malnourished, prioritizing cigarettes over food
- Several ER visits and hospitalizations for COPD and failure to thrive

#### Homelessness and patterns

- 3.5 million individuals experience homelessness yearly
- Chronic homelessness ~ 20-25%
  - Continuously homeless in the past year
  - 4 or more episodes in the past 2 years
- Intermittent homelessness ~ 50-60%
- Crisis or transitional homelessness ~ 10-15%







### San Francisco's spending on homelessness

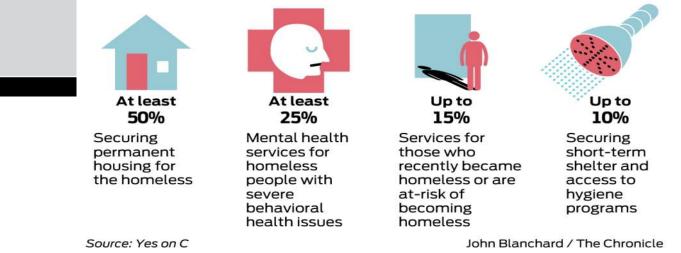
#### **CITY SPENDING ON HOMELESSNESS** 2018-19: 2017-18 fiscal \$325 **\$12 million** Capital expenditures year (July 1 million \$17 million Administration to June 30) \$8 million Street outreach \$304 \$44 million Emergency shelters million total **\$5 million** Health services \$54 million Ambulance, hospital, police and other emergency services not included in the Department of Homelessness

#### Following the money on Proposition C

**\$164 million (est** Supportive housir other residential f homeless people

(est Jusir initial f million to \$300 million for homelessness services by raising taxes on the city's largest businesses.

#### HOW THE MONEY WOULD BE SPENT



#### Tobacco use is an entrenched aspect of homelessness

- 70% of homeless adults smoke
- 66% use non-cigarette tobacco
  - Cigars
  - Roll-your-own
  - E-cigarettes



### Social norms play an important role in tobacco cessation

#### Factors that encourage

- Smoke-free policies
- Cigarette prices and taxes

#### Factors that discourage

- Pervasiveness of smoking
- Stress from homelessness
- Boredom
- Mental illness
- Substance use
- Service providers don't prioritize





# Morbidity and mortality is high

#### The homeless population is aging



San Francisco Chronicle

- Median age is 50
- High prevalence of smoking-related chronic diseases



San Francisco Chronicle

# Smoking-related diseases are the leading causes of mortality

- Homeless adults are 3-5 time more likely to die prematurely
- Substance abuse
  - Tobacco use comprises half of all the substance abuse related deaths
- Cancers
  - Trachea, bronchus and lung
- Cardiovascular disease

# Recall my patient Mr. P

- Waitlist for permanent supportive housing
- Engaged with ED case management
- San Francisco Homeless Outreach Team
- Housed in a single room occupancy hotel
- He smokes indoors
- He pays 30% of his disability income on rent
- His main expenses are cigarettes, rent, food
- He spends about 20% of his monthly income on cigarettes
- He has missed his rent payment once before

# 30% of income spent on tobacco = Rent in supportive housing

- Permanent supportive housing
  - Subsidized housing
  - On-site or closely linked supportive services
- Distinct from public housing
- Single site vs. scattered sites
- Harm reduction



### Proven and preferred approach to end chronic homelessness

#### **Benefits of supportive housing**

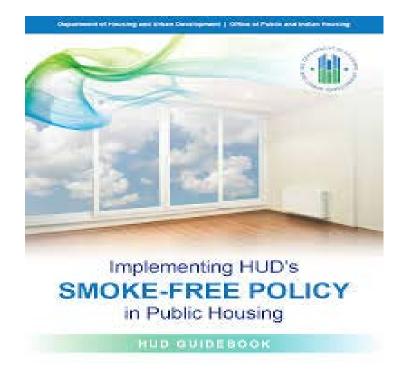
- Improved substance use outcomes
- Reduced episodes of homelessness
- Reduced long-term health care utilization
- Improved quality of life



Dec. 9, 2014 Photo: Brant Ward, The Chronicle

# Smoke-free policies are uncommon in permanent supportive housing

- Public housing has a HUD mandate to implement smoke-free policies
- There is no such mandate for supportive housing



# Smoke-free policies are one of the most effective tobacco control interventions

- Reduce exposure to secondhand smoke
- Reduce smoking prevalence
- Reduce cigarette consumption
- Increase quit attempts
- Reduce relapse to smoking
- Improve cardiovascular outcomes
- Reduce hospitalizations

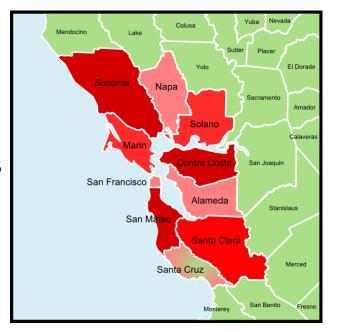


#### **Comprehensive smoke-free policies = more smoke-free homes**

# Smoke-free home intervention – A pilot social norms intervention

Multi-component intervention

- Recruited 100 current smokers from 15 supportive housing sites
  - Smoked in their home
- Recruited 62 staff from these sites
  - Trained on how to provide brief cessation counseling
  - How to implement smoke-free homes



#### Smoke-free home intervention

#### **PSH Residents**

- 1-hour, 1-on-1 counseling on how to adopt a SFH
- Infographics on secondhand smoke, thirdhand smoke, & ecigs
- 2009 FDA-proposed graphic warning labels
- Personal expenditure exercise
- SFH pledge
- \$25 for SFH adoption

#### PSH Staff

- 1.5 hour, group training
- Information on nicotine addiction
- Delivering 2As and R and 5As cessation counseling
- Update on cessation Rx
- Local cessation assistance resources
- Counseling on how to adopt a SFH



#### Smoke-free home intervention – Outcomes

- Resident follow-up at 3 months and 6 months
  - Smoke-free home adoption
  - CO verified point prevalence abstinence
- Staff follow-up at 3 months

19

- Smoking knowledge, attitudes, practices survey



I pledge to protect myself and my household from the dangers of secondhand smoke

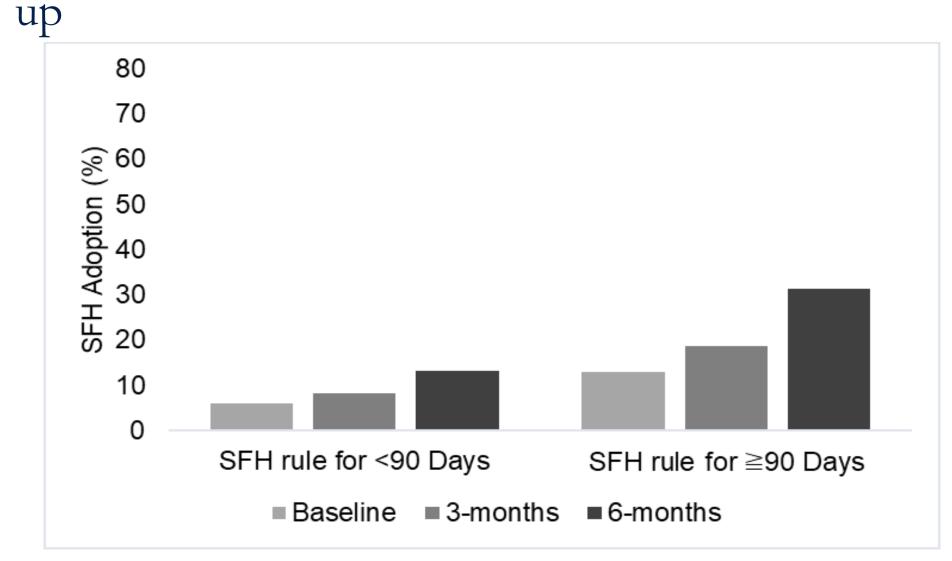
For children who are counting on me to keep them healthy
For the health and comfort of our family and friends
For the safety and appearance of our home
For the health of our pets

beginning on	6	The la
Date:	65.45	
Signed by:		
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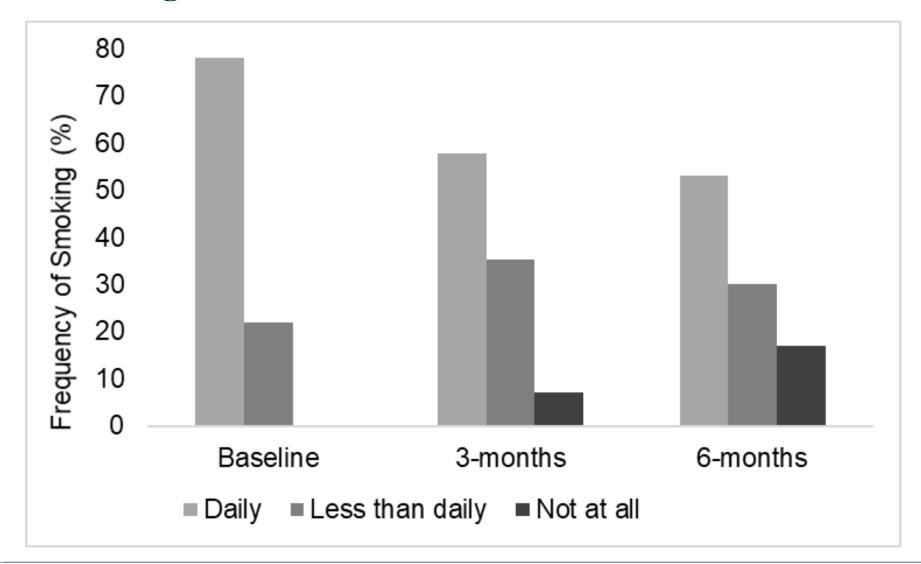
#### Graphic warning labels and other materials



# Smoke-free home adoption at 3 months and 6 months follow-



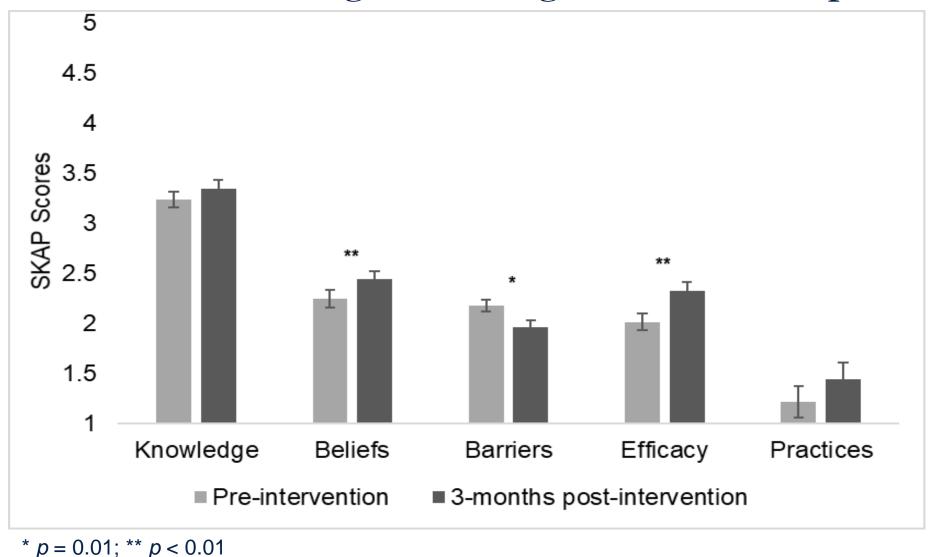
#### Smoking cessation at 3 months and 6 months



# Predictors of SFH adoption and point prevalence abstinence

- SFH adoption
  - Having a favorable attitude toward smoke-free policy
- Point prevalence abstinence
  - A smoke-free home was associated with increased point prevalence abstinence

#### PSH staff smoking-knowledge, attitudes, & practices





### Smoke-free home intervention – Strengths

- Used existing materials
- Targeted individuals as they exited homelessness
- Targeted staff
- 17% cessation at 6 months better than:
  - Psychiatric inpatients: ~ 12%
  - Psychiatric outpatients: ~ 15%
  - Homeless adults: ~9%
- Easy to deliver and inexpensive

# My patient Mr. P – Recall he missed his rent payment

- Involved case management at his supportive housing site:
  - Tobacco use a barrier to financial stability
  - Tobacco cessation counseling and pharmacotherapy
  - Encouraged adoption of smoke-free home
- Stopped smoking indoors
- Cut down on cigarette smoking
- Has more money
- Buys more food
- Fewer hospitalizations

### Graphic warning labels and other materials...



# Smoke-free home study

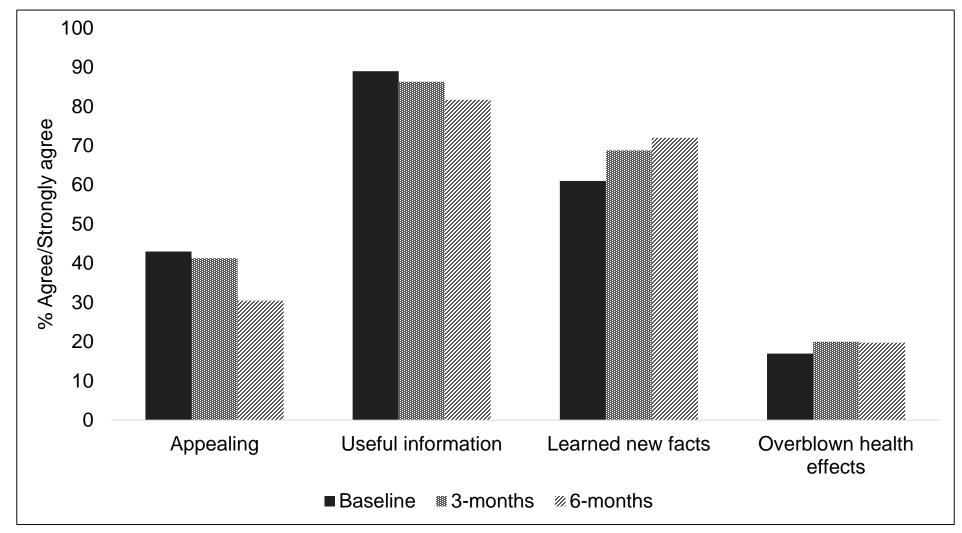
Graphic warning labels



Affective and Cognitive Responses to Cigarette Graphic Warning Labels Among Low-Income Smokers: A Mixed Methods Study

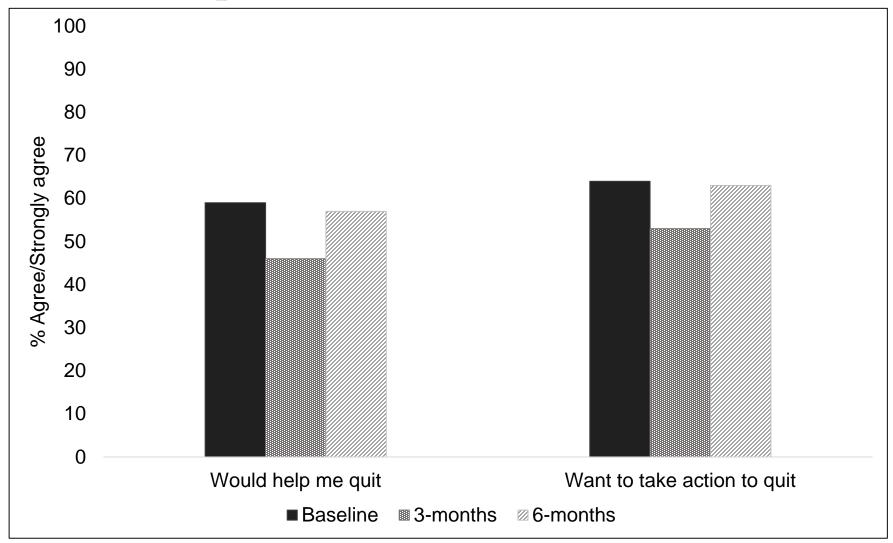
- Explored affective and cognitive responses to the 2009 FDA-proposed graphic warning labels
  - Affect, efficacy, appeal and credibility at baseline, 3- and 6-months follow-up
- Recruited a sub-sample of those who completed the SFH intervention (n=23)
  - Conducted in-depth, semi-structured interviews on perceived efficacy of GWLs motivating cessation behaviors

# Appeal and credibility response to the GWLs



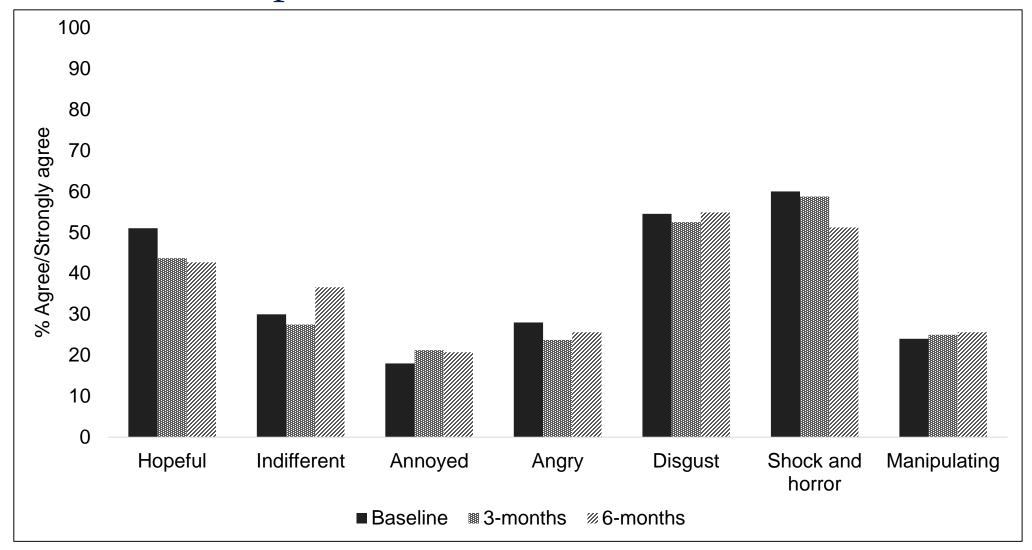


### Efficacy response to the GWLs





### Emotional response to the GWLs





### Qualitative themes Social context of tobacco use and cessation

Family influences

*"It was just normal to me*, I didn't know anything else. So for me, seeing my parents smoking, that was just normal. I didn't really associate it with, oh, smoking is bad, 'cause my parents were doing it so it didn't really...'cause if it was really bad, why would my parents do it, kind of thing."

-- Female, 36 yo

### Qualitative themes General attitudes toward GWLs

- GWLs more impactful than current Surgeon General's text-only warning
- GWLs that elicited high-levels of emotion
  - Unequivocally depicted negative effects of smoking -
  - Illustrated shock value \_
- GWLs that described impact of secondhand smoke
- GWLs that had a positive image of success with quitting















"It has to be more graphic – like the teeth, the cancer thing...For me, personally, the one with the hole – and the baby smoking – those ones will -- ooh, god, that's horrible – more yellow fingernails and rotten teeth and – yeah, the lung thing and the baby smoking, that will work for them, too, but I don't think the oxygen thing – not that graphic."

-- Female, 53 yo.

### Qualitative themes Affective and cognitive response to the GWLs

- Shock and disgust were the most commonly described responses
- A minority reported felling annoyed or angry
  - Images were "overkill"
  - "Already knew that cigarettes were bad"
- Repeated exposure would not result in attention fatigue
  - Recommended rotating images

### Qualitative themes Affective and cognitive response to the GWLs

"Interviewer: Do you think that seeing these images, would they shock you every time you opened up your cigarette pack?

Participant: They just throw it out there for three months, six months, and then take 'em away, throw 'em out there again like six months later...oh, my god, did you see that pack of cigarettes? So it keeps it in people's minds fresh, and not just continuously – because you become anesthetized, you don't even see that after a while"

-- Female, 53 yo

# Qualitative themes

Perceived efficacy of GWLs in motivating cessation behaviors

- Viewing GWLs would trigger negative affect that would motivate cessation
  - Remorse
  - Embarrassment

"I think they [GWLs] would **make me feel really bad about my choice to smoke**, and that would make me **want to quit more**. I think it would eventually help me stop smoking. Possibly reduce smoking, but it would make me really want to quit."

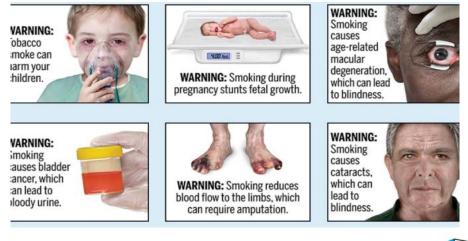
-- Female, 36 yo

### Summary

- Preferred GWLs with higher shock value
- Perceptions of credibility were linked with tobacco-related risk appraisal
  - May motivate cessation behaviors
- Negative affect elicited by the GWLs may be necessary to increase impact of GWLs
  - Increased risk appraisal
  - Quit intentions
- Positive messages are also important and highlights the benefits of quitting

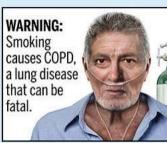
# Implications

#### FDA proposed new GWLs in 2019 – Final rule may be issued in March 2020



















### Tobacco cessation services should be integrated into services for homeless adults

- Smoke-free housing and cessation interventions are integral to providing quality housing
- Smoke-free homes may lead to
  - Downstream effect of smoking cessation
  - Social norm effect of other residents also adopting a smoke-free home
- GWLs has the potential to reach this population
  - May elicit negative affect that might motivate change in smoking behavior
- Policy interventions that have the potential to reach these populations broadly
- Help to reduce tobacco-related disparities



• Submit questions via the 'Ask a Question' box





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### Free 1-800 QUIT NOW cards



### ✓Refer your clients to cessation services



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SCLC's next two live webinars will be with our partners at the National Behavioral Health Network for Tobacco & Cancer Control (NBHN) on Assisting Patients with Quitting:

- Part 1 on Thursday, March 5th
- Part 2 on Monday, March 9th
- More details and registration coming soon!







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