CLEARING THE AIR

DEMYSTIFYING MARIJUANA:
The What, Why and How for Addressing Secondhand Marijuana Smoke in Smokefree Policies

VIEWING TIPS

WATCH IN FULL SCREEN MODE

MOVE THE PRESENTER BOX TO THE SIDE/BOTTOM WHEN SLIDE SHARING

KEEP THE CHAT BOX OPEN FOR QUESTIONS AND DISCUSSION

USE THE Q & A WIDGET
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2021 VIRTUAL INSTITUTE

Demystifying Marijuana, The What, Why And How For Addressing Secondhand Marijuana Smoke In Smokefree Policies
Overview

1. Science of secondhand marijuana smoke
2. Latest maps hot off the database
3. Introducing: Marijuana State Pages
4. Speaker: Thomas Rotering, UCSF, When it comes to Ventilation and Lobbying, Educating Policy Makers is Key
5. Open Discussion on key issues
1. Science of Secondhand Marijuana/Cannabis Smoke
Smoke is Smoke

“Smoke is smoke. Both tobacco and marijuana smoke impair blood vessel function similarly. People should avoid both, and governments who are protecting people against secondhand smoke exposure should include marijuana in those rules.”

Matthew L. Springer, Ph.D.
Cardiovascular Research Institute
Center for Tobacco Control Research & Education
University of California, San Francisco
All Smoke is Harmful

- Breathing **any** type of smoke is harmful to health.
- Smoke & aerosol from vaping contain **fine particulate matter** that poses a health risk to non-smokers.
- **Fine particles** can:
  - Be breathed deeply into the lungs
  - Cause lung irritation, asthma attacks, & infections.
  - Make breathing problems worse, like asthma, bronchitis, & COPD.
Marijuana & Tobacco Smoke

• When combusted, both marijuana and tobacco create secondhand smoke

• **Secondhand marijuana smoke:**
  • Contains many of the same chemicals & cancer-causing substances as secondhand tobacco smoke, including:

- 3 times the amount of ammonia
- Significant levels of mercury, lead, formaldehyde, benzene, hydrogen cyanide, & toluene.
HUMAN HAIR
50-70 μm (microns) in diameter

PM$_{2.5}$
Combustion particles, organic compounds, metals, etc.
<$2.5$ μm (microns) in diameter

PM$_{10}$
Dust, pollen, mold, etc.
<$10$ μm (microns) in diameter

FINE BEACH SAND
90 μm (microns) in diameter

Source: Environmental Protection Agency (EPA)
Smoked marijuana creates more particulate matter than cigarettes.

Research affirms that secondhand smoke from marijuana is a health hazard, including high levels of fine particulate matter that lodge deeply in the lungs.

PM2.5 emission rate of pre-rolled marijuana joints was found to be 3.5 TIMES the average emission rate of Marlboro tobacco cigarettes.
PM2.5 & Vaporizing, Dabbing MJ

• Study conducted by UCSF researchers measured indoor air quality at a San Francisco cannabis retailer

• Retailer allowed electric vaporizers, dab rigs, & vape pens but didn’t allow smoking

• Vaporizing, dabbing, & vaping marijuana indoors increased PM$_{2.5}$ concentrations to unhealthy levels, even though marijuana smoking was not allowed
New Research: Bong smoking in the home

• This cohort study measured PM2.5 levels from social bong smoking; it is the first to quantify SHCS levels from social cannabis smoking in the home.

• Contrary to popular belief, cannabis bong smoking is not safe for non-smokers.

• Cannabis bong smoking in the home generated 4 times greater PM2.5 concentrations than cigarette or tobacco hookah (waterpipe) smoking (Table).
2. ANR Foundation’s Marijuana Maps/Lists

NO TOBACCO OR MARIJUANA SMOKING AT ANY TIME

www.no-smoke.org
States with Legalized Marijuana
American Nonsmokers' Rights Foundation
April 1, 2022

To see a map of state and local laws prohibiting smoking and vaping marijuana, visit https://no-smoke.org/wp-content/uploads/pdf/marijuana-smokefree-laws-map.pdf

Note: American Indian and Alaska Native sovereign Tribal laws are not reflected on this map.

State Law
- Recreational and Medical Marijuana Use is Legal
- Marijuana use is not Legal
- Medical Marijuana Use, but not Recreational, is Legal

Laws are enacted; not yet necessarily in effect. CBD oil legislation is not reflected.

Note: In total, medical marijuana use is legal in 37 states.
State and Local Laws Prohibiting Smoking AND Vaping Marijuana
American Nonsmokers' Rights Foundation

As of April 1, 2022

The laws shown on this map prohibit smoking AND vaping of recreational and medical marijuana in one or more of the following venues: non-hospitality workplaces, restaurants, bars, and/or gambling facilities.

Territories and Commonwealths

Commonwealth of Northern Mariana Islands
Guam
American Samoa
Puerto Rico
U.S. Virgin Islands

Note: American Indian and Alaska Native sovereign Tribal laws are not reflected on this map.

For more information on the health risks of marijuana secondhand smoke exposure, visit https://no-smoke.org/smoketfree-threats/marijuana-smoke/

State and Commonwealth/Territory Law Type

Smoking & Vaping Marijuana Prohibited in W/R/B/G
Smoking & Vaping Marijuana not Prohibited in W/R/B/G

Locality Type
△ City Law
○ County Law
U.S. 100% Smokefree Laws in Non-Hospitality Workplaces AND Restaurants AND Bars
American Nonsmokers' Rights Foundation

As of April 1, 2022

Note: American Indian and Alaska Native sovereign Tribal laws are not reflected on this map, and the map does not reflect restrictions on e-cigarette use.

Territories and Commonwealths

Commonwealth of Northern Mariana Islands
Guam
American Samoa
Puerto Rico
U.S. Virgin Islands

State and Commonwealth/Territory Law Type
- W: 100% Smokefree Non-Hospitality Workplaces
- R: 100% Smokefree Restaurants
- B: 100% Smokefree Bars

Locality Type with a 100% Smokefree WRB Law
- City
- County

www.no-smoke.org
3. ANRF’s State Marijuana Pages

no-smoke.org/smokefree-threats/marijuana-smoke/
4. Thomas Rotering
5. Salient Points & Open Discussion

Maintain the Smokefree

Gain

What does Equity Look Like

A Seat at the Table

Expanding our Bench

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PANELISTS

Liz Williams
Bob Curry
Onjewel Smith
Thomas Rotering
Traci Kennedy
Char Day

www.no-smoke.org
• Last Tuesday of every month @ 10:30am
• Register in **advance** to receive Zoom link
• Email me @ char.day@no-smoke.org if you’d like the registration link

**Next office hours:**
April 26th
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THANK YOU FOR ATTENDING

PLEASE COMPLETE THE EVALUATION POLL

SAVE THE DATE FOR THE NEXT CTA ON MAY 12, 2022
Thank you!
Test Your Knowledge

• True or False: When combusted, secondhand marijuana smoke contains many of the same chemicals and cancer-causing substances as secondhand tobacco smoke.

• True or False: Smoked marijuana creates more particulate matter than cigarettes.

• True or False: Cannabis bong smoking in the home generated 4 times greater PM2.5 concentrations than cigarette or tobacco hookah smoking.

• True or False: Ventilation is a good solution for eliminating the toxins from secondhand marijuana smoke indoors.

• True or False: Big tobacco has NOT invested in the marijuana industry.