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Tuesday, May 04, 2021

ASHES, Vol. 17(5) - Does banning menthol-flavored cigarettes reduce smoking?

Many find that the mintiness of [menthol](#) makes cigarette smoke easier to inhale and reduces its otherwise harsh taste. However, menthol-flavored cigarettes can [provide false assurance](#) about the health risks of smoking, are attractive to vulnerable groups such as [adolescents](#), and might be [harder to quit](#). As of January 1, 2017, Ontario, Canada banned flavored tobacco products, including menthol-flavored cigarettes. In this edition of ASHES, we review [a study by Michael Chaiton and colleagues](#) that examined this ban's effects on menthol cigarette smokers two years later.

What was the research question?

Did Ontario's ban on menthol-flavored cigarettes result in a long-term increase in smoking cessation among menthol smokers?

What did the researchers do?

The authors surveyed 1,821 smokers aged 16 and older in Ontario during the autumn of 2016, just before the menthol ban took effect. Participants reported whether they had smoked menthol-flavored cigarettes daily, occasionally, or not at all in the past year. Eight-hundred ten participants (44%) completed a follow-up survey between January and August 2019, while the ban was in effect. Participants reported whether they had attempted to quit smoking, and whether they had at some point relapsed in the past six months. The authors used [Poisson regression](#) to test whether occasional or daily menthol smokers were more likely than non-menthol smokers to (1) have quit smoking, (2) have had a larger number of quit attempts, and/or (3) to have relapsed from a quit attempt.

What did they find?

After the menthol cigarette ban, daily menthol smokers were 2.08 times more likely than non-menthol smokers to have quit smoking entirely, a [significant difference](#). Occasional menthol smokers were not more likely to have quit than non-menthol smokers, but they were significantly more likely to have attempted quitting more times. There were no significant differences in relapse across groups. Finally, the authors found that menthol smokers who used other flavored tobacco products after the ban were less likely to have quit smoking than menthol smokers who did not use other flavored tobacco products. See the figure for the [risk ratios](#).

Risk Ratios of Smoking Outcomes After the Menthol Cigarette Ban, Relative to Non-Menthol Smokers

	Occasional Menthol Smokers have	Daily Menthol Smokers have
Successful Quitting	1.34 [0.78, 2.30] times the probability of	2.08* [1.20, 3.61] times the probability of
A Higher Number of Quit Attempts	1.27* [1.03, 1.56] times the probability of	1.45* [1.15, 1.82] times the probability of
Relapse	1.61 [0.69, 3.77] times the probability of	2.02 [0.83, 4.95] times the probability of

Figure. * = [Statistically significant](#) effect. The numbers in brackets represent the 95% [confidence intervals](#) around the risk ratio point estimates. To rule out [confounding](#) explanations, the authors included in the models several factors measured during the baseline survey, such as age, sex, education, race, number of cigarettes per day smoked at baseline, and the use of unflavored cigarettes at baseline. [Click image to enlarge.](#)

Why do these findings matter?

Many other jurisdictions [have banned](#) or [are considering bans](#) on menthol-flavored cigarettes. The positive long-term public health benefits of the Ontario ban could serve as a model for menthol bans elsewhere. Additionally, because the availability of unflavored cigarettes did not nullify the menthol ban's effectiveness, perhaps other interventions which affect the experience of smoking may also be effective. For instance, mindfulness interventions that encourage increased attention to what cigarettes taste like [have reduced their appeal](#) for some people.

Every study has limitations. What are the limitations of this study?

Less than half of participants completed both the baseline survey and two-year follow-up. If the reason that participants dropped out of the study is related to whether they attempted to quit smoking, then the increase in smoking cessation among menthol smokers could have been overestimated or underestimated. Furthermore, menthol smokers might have been more motivated to quit smoking even before the ban took place, in which case quitting would have been more frequent among menthol smokers relative to non-menthol smokers even if menthol-flavored cigarettes had not been banned.

For more information:

[SmokeFree](#) offers tools and tips for quitting and maintaining abstinence from smoking tobacco. The Centers for Disease Control and Prevention also provides [research and tips](#) about cigarettes and how to quit. For more details about addiction, visit our [Addiction Resources page](#).

What do you think? Please use the comment link below to provide feedback on this article.

-- William McAuliffe, Ph.D.

Posted at 08:35 AM in [Addiction Smoking Health Education Service \(ASHES\)](#) | [Permalink](#)



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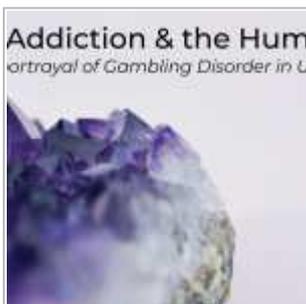
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